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ANNUAL REPORT

REPORT

COMMISSIONER OF PATENTS

OF THE

TO CONGRESS,

FOR THE YEAR ENDING DECEMBER 31, 1896.

COMMISSIONER OF PATENTS

Washington, D. C., January 15, 1897.

To the Senate and House of Representatives of the
United States of America in Congress assembled:

I have the honor to submit the following report
of the business of this Office for the year ending the
31st of December, 1896.

RECEIPTS.

Detailed statement of all moneys received for
fees, for copies of records or drawings, or from
any source whatever.

FOR

THE YEAR 1896.

WASHINGTON:

GOVERNMENT PRINTING OFFICE.

1897.

REPORT

OF THE

COMMISSIONER OF PATENTS

TO CONGRESS,

FOR THE YEAR ENDING DECEMBER 31, 1896.

Laid before the Senate by the Vice-President, March 3, 1897, referred to the Committee on Patents, and ordered to be printed.

DEPARTMENT OF THE INTERIOR.

UNITED STATES PATENT OFFICE,
Washington, D. C., January 31, 1897.

*To the Senate and House of Representatives of the
United States of America in Congress assembled:*

I have the honor to submit the following report
of the business of this Office for the year ending De-
cember 31, 1896:

RECEIPTS.

*Detailed statement of all moneys received for pat-
ents, for copies of records or drawings, or from
any source whatever.*

Applications:	
Cash received.....	\$1,175,751 00
Cash refunded.....	5,080 00
Net cash	1,170,671 00
Certificates of deposit.....	28,084 00
Total cash and certificates	1,198,755 00

Copies:	
Cash received.....	98,957 07
Cash refunded.....	6,850 51
Net cash	92,106 56
Certificates of deposit.....	449 75
Total cash and certificates	92,556 31

Recording assignments:	
Cash received.....	21,219 34
Cash refunded.....	1,073 15
Net cash	20,146 19
Certificates of deposit.....	108 00
Total cash and certificates	20,249 19

Subscriptions to Official Gazette:	
Cash received.....	12,565 04
Cash refunded.....	91 01
Net cash	12,474 03
Certificates of deposit.....	48 30
Total cash and certificates	12,522 33

Registration of prints and labels:	
Cash received.....	613 00
Cash refunded.....	624 00
Net cash	-11 00
Certificates of deposit.....	-12 00
Total cash and certificates	-23 00

<i>Aggregates.</i>	
Cash received.....	\$1,309,105 45
Cash refunded.....	13,718 67
Net cash	1,295,386 78
Certificates of deposit.....	28,673 05
Total cash and certificates	1,324,059 83

EXPENDITURES.

*Approximate amounts expended and incurred
under the several appropriations from January
1, 1896, to December 31, 1896.*

	Expended.	Liabili- ties.	Total.
Salaries.....	\$687,366 65	-----	\$687,366 65
Official Gazette, illustrations.....	40,535 88	-----	40,535 88
Photolithographing.....	59,186 40	\$5,072 40	64,258 80
Scientific Library.....	1,449 16	-----	1,449 16
Transportation of publica- tions to foreign govern- ments.....	498 95	-----	498 95
International Union for Pro- tection of Industrial Prop- erty.....	-----	700 00	700 00
Totals	789,037 04	5,772 40	794,809 44

*Estimated amounts reported by the Department of
the Interior as expended on account of this Office
from January 1, 1896, to December 31, 1896.*

Stationery.....	\$12,077 38
Postage on foreign matter.....	2,242 16
Printing and binding.....	272,142 00
Watch force.....	16,600 00
Furniture.....	3,038 71
Carpets.....	715 72
Ice.....	402 35
Telephones.....	120 00
Washing towels.....	101 91
Sundries.....	11,164 04
Total	318,604 27
Aggregate amount of expenditures	\$1,113,413 71

RECEIPTS OVER EXPENDITURES.

Total receipts.....	\$1,324,059 83
Total expenditures.....	1,113,413 71
Receipts over expenditures	210,646 12

*Statement of balance in the Treasury of the United
States on account of the patent fund.*

*Amount to the credit of the fund January 1, 1896.....	\$4,507,993 35
Amount of receipts during the year 1896.....	1,324,059 83
Total	5,832,053 18
Deduct expenditures for the year 1896.....	1,113,413 71
Balance January 1, 1897	4,718,639 47

*NOTE.—Corrected from statement furnished by the Depart-
ment, from which it appears that the Patent Office expenditures
on account of printing and binding during the year 1895 were
\$369,407.74 instead of \$347,514.76, the amount previously furnished
by the Office of the Secretary to the Commissioner of Patents,
which reduces the surplus turned into the Treasury during the
year 1895 by \$21,892.98.

SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Number of applications for patents for inventions.....	42,077
Number of applications for patents for designs.....	1,828
Number of applications for reissues of patents.....	77
Total number of applications.....	43,982
Number of caveats filed.....	2,271
Number of applications for registration of trade-marks.....	2,005
Number of applications for registration of labels.....	59
Number of applications for registration of prints.....	36
Number of disclaimers filed.....	9
Number of appeals on the merits.....	1,412
Total.....	5,792
Total number of applications, etc., requiring investigation and action.....	49,774
Number of patents issued, including designs.....	23,312
Number of patents reissued.....	61
Total.....	23,373
Number of trade-marks registered.....	1,813
Number of labels registered.....	1
Number of prints registered.....	32
Total.....	1,846
Number of patents expired during the year.....	12,133
Number of patents withheld for non-payment of final fees.....	4,736

PATENTS ISSUED.

Patents issued to the citizens of the United States, with the ratio of population to each patent granted.

States and Territories.	Patents and designs.	One to every—
Alabama.....	109	13,880
Arizona Territory.....	13	4,586
Arkansas.....	84	13,430
California.....	526	2,134
Colorado.....	234	1,761
Connecticut.....	963	759
Delaware.....	49	3,438
District of Columbia.....	205	1,123
Florida.....	55	7,116
Georgia.....	128	11,354
Idaho.....	20	4,219
Illinois.....	2,041	1,874
Indiana.....	615	3,564
Indian Territory.....	12	4,791
Iowa.....	396	5,531
Kansas.....	258	9,387
Kentucky.....	198	8,410
Louisiana.....	133	5,085
Maine.....	130	4,009
Maryland.....	260	1,177
Massachusetts.....	1,901	2,987
Michigan.....	701	3,719
Minnesota.....	350	27,438
Mississippi.....	47	4,059
Missouri.....	669	1,943
Montana.....	68	7,012
Nebraska.....	151	5,084
Nevada.....	9	3,454
New Hampshire.....	109	

Patents issued—Continued.

States and Territories.	Patents and designs.	One to every—
New Jersey.....	994	1,453
New Mexico Territory.....	12	12,799
New York.....	3,882	1,545
North Carolina.....	68	23,793
North Dakota.....	34	5,373
Ohio.....	1,613	2,276
Oklahoma Territory.....	16	3,864
Oregon.....	90	3,486
Pennsylvania.....	2,319	2,267
Rhode Island.....	249	1,883
South Carolina.....	36	31,976
South Dakota.....	47	6,995
Tennessee.....	140	12,625
Texas.....	297	7,527
Utah.....	39	5,390
Vermont.....	91	3,652
Virginia.....	154	10,753
Washington.....	111	3,147
West Virginia.....	86	8,860
Wisconsin.....	474	3,558
Wyoming.....	22	2,759
United States Army.....	11	
United States Navy.....	12	
Total.....	21,285	

Patents granted to citizens of foreign countries.

Argentina.....	2
Austria-Hungary.....	61
Bahama Islands.....	1
Belgium.....	26
Brazil.....	5
British Guiana.....	1
Canada.....	24
Canary Islands.....	1
Cape Colony.....	1
Ceylon.....	1
Chile.....	4
Colombia.....	1
Costa Rica.....	1
Cuba.....	4
Denmark.....	10
Ecuador.....	1
England.....	617
France.....	194
Germany.....	543
Guatemala.....	1
Hawaii.....	2
India.....	5
Ireland.....	13
Island of Guernsey.....	1
Island of Jersey.....	1
Italy.....	20
Jamaica.....	1
Japan.....	1
Mexico.....	10
Netherlands.....	9
New South Wales.....	21
New Zealand.....	26
Norway.....	3
Orange Free State.....	1
Peru.....	1
Russia.....	15
Scotland.....	39
South Australia.....	4
Spain.....	5
Straits Settlements.....	1
Sweden.....	40
Switzerland.....	64
Tasmania.....	1
Trinidad.....	1
Venezuela.....	3
Victoria.....	20
Total.....	2,027

The following tables present a comparative statement of the business of the Patent Office since the enactment of the statute of 1836 and exhibit in detail the business of the Office during the last calendar year:

Comparative statement of the business of the Office from 1837 to 1896, inclusive.

Year.	Applica- tions.	Caveats filed.	Patents and re- issues.	Cash re- ceived.	Cash ex- pended.	Surplus.
1837			435	\$29,289 08	\$33,506 98	
1838			520	42,123 54	37,338 92	
1839			425	38,019 97	34,543 51	3,476 46
1840	765	228	473	38,056 51	39,020 67	
1841	847	312	495	40,413 01	52,666 87	
1842	761	291	517	36,505 63	31,241 43	5,264 20
1843	819	315	519	35,315 81	30,776 96	4,538 85
1844	1,045	380	497	42,509 26	36,344 53	6,164 73
1845	1,246	452	503	51,076 14	39,395 65	11,680 49
1846	1,272	448	638	50,264 16	46,158 71	4,105 45
1847	1,531	533	569	63,111 19	41,878 35	21,232 84
1848	1,628	607	653	67,576 69	58,905 84	8,670 85
1849	1,955	595	1,077	80,752 78	77,716 44	3,036 34
1850	2,193	602	923	86,927 05	80,100 95	6,826 10
1851	2,258	760	872	95,738 61	86,916 93	8,821 68
1852	2,639	996	1,019	112,056 34	95,916 91	16,139 43
1853	2,673	901	961	121,527 45	132,869 88	
1854	3,324	868	1,844	163,789 84	167,146 32	
1855	4,435	906	2,013	216,459 35	179,540 33	36,919 02
1856	4,960	1,024	2,505	192,588 02	199,931 02	
1857	4,771	1,010	2,896	196,132 01	211,582 09	
1858	5,364	943	3,710	203,716 16	198,193 74	10,522 42
1859	6,225	1,079	4,538	245,942 15	210,278 41	35,663 74
1860	7,653	1,084	4,819	256,352 59	252,820 80	3,531 79
1861	4,643	700	3,340	137,354 44	221,491 91	
1862	5,088	824	3,521	215,754 99	182,810 39	32,944 06
1863	6,014	787	4,170	195,593 29	189,414 14	6,179 15
1864	6,972	1,063	5,020	240,919 98	229,868 00	11,051 98
1865	10,664	1,937	6,616	348,791 84	274,199 34	74,592 50
1866	15,269	2,723	9,450	495,665 38	361,724 28	133,941 10
1867	21,276	3,597	13,015	646,581 92	639,263 32	7,318 60
1868	20,445	3,705	13,378	681,565 86	628,679 77	52,886 09
1869	19,271	3,624	13,986	693,145 81	486,430 74	206,715 07
1870	19,171	3,273	13,321	669,456 76	557,147 19	112,309 57
1871	19,472	3,366	13,033	678,716 46	562,091 64	116,624 82
1872	18,246	3,090	13,590	699,726 39	665,595 00	34,131 39
1873	20,414	3,248	12,864	708,191 77	691,178 98	12,012 79
1874	21,602	3,181	13,599	738,278 17	679,288 41	58,989 76
1875	21,638	3,094	14,837	743,453 36	721,657 71	21,795 65
1876	21,425	2,697	15,595	757,987 65	652,542 60	105,445 05
1877	20,308	2,809	14,187	732,342 85	613,152 62	119,190 23
1878	20,260	2,755	13,444	725,375 55	593,082 89	132,292 66
1879	20,059	2,620	13,213	703,391 47	529,698 97	174,292 50
1880	23,012	2,490	13,947	749,685 32	538,865 17	210,820 15
1881	26,059	2,406	16,584	853,665 89	605,173 28	248,492 61
1882	31,522	2,553	19,267	1,009,219 45	683,867 67	325,351 78
1883	34,576	2,741	22,383	1,146,240 00	675,234 86	471,005 14
1884	35,600	2,582	20,413	1,075,738 80	970,579 76	105,219 04
1885	35,717	2,552	24,233	1,188,089 15	1,024,378 85	163,710 30
1886	35,968	2,513	22,508	1,154,551 40	992,503 45	162,047 95
1887	35,613	2,622	21,477	1,144,509 60	994,472 22	150,037 38
1888	35,797	2,251	20,506	1,118,516 10	973,108 78	145,407 32
1889	40,575	2,481	24,158	1,281,728 05	1,062,955 96	228,772 09
1890	41,048	2,311	26,292	1,340,372 66	1,099,297 74	241,074 92
1891	40,552	2,408	23,244	1,271,285 78	1,139,713 35	131,572 43
1892	40,753	2,290	23,559	1,286,331 88	1,110,739 24	175,592 59
1893	38,473	2,247	23,769	1,242,871 64	1,141,038 45	101,833 19
1894	38,439	2,286	20,867	1,187,439 58	1,100,047 12	87,392 46
1895	40,680	2,415	22,057	1,245,246 93	1,106,389 49	138,857 44
1896	43,982	2,271	23,373	1,324,059 83	1,113,413 71	210,646 12

Statement showing the number of the first patent, Design patent, and reissued patent, and the number of the first certificate of registration of a Trade-Mark and a Label issued in each calendar year since July 28, 1836, when the present series of numbers of Letters Patent commenced, together with the total number of each issued during the year.

[The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.]

Year.	Number of first patent and certificate issued in each calendar year.					Number of patents and certificates of registration issued during each calendar year.						
	Patents.	Designs.	Reissues.	Trade-Marks.	Labels.	Patents.	Designs.	Reissues.	Total patents.	Trade-Marks.	Labels.	Total certificates.
1836 (July 28).....	1					109						
1837.....	110					436						
1838.....	546					515		6				
1839.....	1,061		1			404		13				
1840.....	1,465		20			458		10				
1841.....	1,923		36			490		6				
1842.....	2,413		49			488		13				
1843.....	2,901	1	60			494	14	11	519			
1844.....	3,395	15	67			478	12	7	497			
1845.....	3,873	27	78			475	17	11	503			
1846.....	4,348	44	91			556	59	13	632			
1847.....	4,914	103	105			495	60	14	569			
1848.....	5,409	163	128			584	46	23	653			
1849.....	5,993	209	158			988	49	30	1,067			
1850.....	6,981	258	184			884	83	26	993			
1851.....	7,865	341	209			757	90	25	872			
1852.....	8,622	431	229			890	109	20	1,019			
1853.....	9,512	540	258			846	86	29	961			
1854.....	10,358	626	286			1,759	57	28	1,844			
1855.....	12,117	683	337			1,892	70	51	2,013			
1856.....	14,009	753	420			2,315	107	83	2,505			
1857.....	16,324	860	517			2,686	113	97	2,896			
1858.....	19,010	973	643			3,467	102	126	3,695			
1859.....	22,477	1,075	874			4,165	108	131	4,504			
1860.....	26,642	1,183	1,106			4,363	183	232	4,778			
1861.....	31,005	1,366	1,253			3,040	142	147	3,329			
1862.....	34,045	1,508	1,369			3,221	195	116	3,532			
1863.....	37,266	1,703	1,596			3,781	176	227	4,184			
1864.....	41,047	1,879	1,844			4,638	139	248	5,025			
1865.....	45,685	2,018	2,140			6,099	221	296	6,616			
1866.....	51,784	2,239	2,430			8,874	294	290	9,458			
1867.....	60,658	2,533	2,830			12,301	325	400	13,026			
1868.....	72,959	2,858	3,250			12,544	446	420	13,410			
1869.....	85,503	3,304	3,784			12,957	506	534	13,997			
1870.....	98,460	3,810	4,223	1		12,157	737	439	13,333	121		121
1871.....	110,617	4,547	4,687	122		11,687	905	464	13,056	486		486
1872.....	122,304	5,452	5,216	608		12,200	884	529	13,613	491		491
1873.....	134,504	6,336	5,717	1,099		11,616	747	501	12,864	492		492
1874.....	146,120	7,083	6,200	1,591	1	12,230	886	483	13,599	559	232	791
1875.....	158,350	7,969	6,891	2,150	233	13,291	915	631	14,837	1,138	232	1,370
1876.....	171,641	8,884	7,452	3,288	465	14,172	802	621	15,595	959	472	1,431
1877.....	185,813	9,686	8,529	4,247	937	12,920	699	568	14,187	1,216	392	1,608
1878.....	198,733	10,385	9,523	5,463	1,329	12,345	590	509	13,444	1,455	492	1,947
1879.....	211,078	10,975	9,994	6,918	1,821	12,133	592	488	13,213	872	355	1,227
1880.....	223,211	11,567	10,265	7,790	2,176	12,926	515	506	13,947	349	203	552
1881.....	236,137	12,082	10,432	8,139	2,379	15,548	565	471	16,584	834	202	1,036
1882.....	251,685	12,647	10,548	8,973	2,581	18,135	861	271	19,267	947	304	1,251
1883.....	269,820	13,508	10,778	9,920	2,885	21,196	1,020	167	22,383	902	906	1,808
1884.....	291,016	14,528	10,892	10,822	3,791	19,147	1,150	116	20,413	1,021	513	1,534
1885.....	310,163	15,678	10,978	11,843	4,304	23,331	773	129	24,233	1,067	391	1,458
1886.....	333,494	16,451	10,793	12,910	4,695	21,797	595	116	22,508	1,029	378	1,407
1887.....	355,291	17,046	10,892	13,939	5,073	20,429	949	99	21,477	1,133	380	1,513
1888.....	375,720	17,995	10,978	15,072	5,453	19,585	835	86	20,590	1,050	327	1,386
1889.....	395,305	18,830	11,053	16,131	5,780	23,360	723	75	24,158	1,229	319	1,548
1890.....	418,665	19,553	11,137	17,360	6,099	25,322	886	84	26,292	1,415	304	1,719
1891.....	443,987	20,439	11,217	18,775	6,403	22,328	836	81	23,244	1,762	137	1,899
1892.....	466,315	21,275	11,298	20,537	6,540	22,661	817	81	23,559	1,737	6	1,743
1893.....	488,976	22,092	11,397	22,274	6,546	22,768	902	99	23,769	1,677	*2	1,677
1894.....	511,744	22,994	11,461	23,951	(*)	19,875	928	64	20,867	1,806	*4	1,812
1895.....	531,619	23,922	11,520	25,757	7	20,883	1,115	59	22,057	1,829	*3	1,830
1896.....	552,502	25,097		27,586	10	21,867	1,445	61	23,273	1,813	+1	1,846

*Prints.

+32 Prints.

The following statement shows, for purposes of comparison, the approximate cost of photolithographing the OFFICIAL GAZETTE and of doing other photolithographic work from 1884 to the present time:

Statement of prices paid for photolithographic work since 1884-85.

Year.	Contractor.	Patents issued.	Official Gazette.		Publishing expired patents.	Total Official Gazettes.
			Per page.	Number of copies.		
1884-85	Norris Peters	21,496	\$7 86	6,500		\$39,614 40
1885-86	do	24,134	7 45	6,500		44,351 00
1886-87	do	21,731	7 45	6,500		41,868 40
1887-88	do	20,653	7 45	6,500		41,183 60
1888-89	do	21,518	7 45	6,500		43,999 70
1889-90	do	25,857	7 45	7,450		58,992 40
1890-91	do	25,307	7 45	7,000		65,966 10
1891-92	Norris Peters Co	23,626	7 45	7,000		52,969 50
1892-93	do	23,468	7 45	7,000		54,998 30
1893-94	National Lithographic Co	22,546	6 30	7,000	\$4,999 70	49,997 70
1894-95	Norris Peters Co	20,745	5 25	7,000		38,297 88
1895-96	A. B. Graham	22,791	5 10	7,000		42,326 30
1896-97	Norris Peters Co	24,000	4 50	7,000		35,000 00

Year.	Contractor.	Drawings of Letters Patent per sheet, current issues.			Other lithographic work.	Total.
		Thin copies.	Thick copies.	Bond copies.		
1884-85	Norris Peters	\$0 01	3	Cents. 3	\$78,671 99	\$118,286 39
1885-86	do	01	3	3	84,940 19	129,291 19
1886-87	do	01	3	3	79,509 57	121,377 97
1887-88	do	01	3	3	77,907 96	119,091 56
1888-89	do	01	3	3	83,284 54	127,284 24
1889-90	do	01	3	3	101,292 67	160,285 07
1890-91	do	01	3	3	110,998 97	176,965 07
1891-92	Norris Peters Co	b1 48	3	3	99,992 58	152,962 08
1892-93	do	b1 48	2	3	99,788 92	154,787 22
1893-94	National Lithographic Co	b1 46	3	3	94,911 33	144,909 03
1894-95	Norris Peters Co	b 95	2	2	60,482 04	98,779 92
1895-96	A. B. Graham	c 93				
		d 01	.0175	.0175	58,866 60	101,192 90
1896-97	Norris Peters Co	c 80	.01	.015	59,000 00	94,000 00

a Estimated amounts for current year.

b For 102 copies.

c For 103 copies.

d Two proof copies each.

Table showing the number of patents in the Scientific Library issued by the United States and the estimated number granted in foreign countries from the earliest period to December 31, 1896.

Countries.	To 1870, inclusive.	1871 to 1896.	Total.
Austria-Hungary	15,350	72,798	88,148
Bahamas		2	2
Barbadoes		96	96
Belgium	35,044	97,348	132,392
Bolivia	42	62	104
Brazil	185	2,409	2,594
British Guiana	32	92	124
British Honduras	1	9	10
Canada	4,061	53,752	57,813
Ceylon	58	349	407
Chile	20	235	255
Denmark	464	7,798	8,262
Fiji Islands		20	20
Finland	112	554	666
France	103,934	171,017	274,951
Germany*	9,996	97,588	107,584
Great Britain	53,408	184,812	238,220
Guatemala		51	51
Hawaii		127	127
Hong-Kong		28	28
India	445	4,445	4,890
Italy and Sardinia†	4,723	36,678	41,401
Jamaica	22	105	127
Japan		2,881	2,881
Leeward Islands		11	11
Liberia		2	2
Luxemburg		2,701	2,701
Malta		15	15
Mauritius	113	240	322
Mexico	22	1,700	1,821
Netherlands	4,535		4,535
Newfoundland	40	186	226
New South Wales	236	7,065	7,301
New Zealand	109	4,976	5,085
Norway	737	5,602	6,339
Portugal	245	2,012	2,257
Queensland	67	3,017	3,084
Russia	1,464	5,010	6,474

Table showing the number of patents in the Scientific Library, etc.—Continued.

Countries.	To 1870, inclusive.	1871 to 1896.	Total.
St. Helena		4	4
South Australia	123	1,782	1,905
Spain		17,821	17,821
Straits Settlements		60	60
Sweden	1,629	8,975	10,604
Switzerland		12,679	12,679
Tasmania	43	1,176	1,219
Trinidad	6	116	122
Tunis		189	189
Turkey		542	542
Venezuela		108	108
Victoria	822	8,760	9,582
Western Australia		1,045	1,045
Total foreign	238,108	819,120	1,057,228
United States	120,573	463,752	584,325
Grand total	358,681	1,282,872	1,641,553

*Includes Baden, Bavaria, Hanover, Prussia, Saxony, and Württemberg, to July 1, 1877, when the new German patent law went into effect. Since that date all patents are issued by the Imperial German Patent Office.

†Sardinia, 1848-1863. Italy, 1864-1896.

SUMMARY OF TABLES.

In 1896 there were received 42,077 applications for patents, 1,828 applications for designs, 77 applications for reissues, 2,271 caveats, 2,005 applications for registration of trade-marks, 59 applications for registration of labels, and 36 applications for prints. There were 23,312 patents granted, including designs, 61 patents reissued, 1,813 trade-marks registered, and 1 label and 32 prints. The number of

patents which expired was 12,133. The number of patents which were by operation of law forfeited for non-payment of the final fee was 4,736. The total expenditures were \$1,113,413.71. The receipts over expenditures were \$210,646.12, and the total balance to the credit of the Patent Office in the Treasury of the United States amounts to \$4,718,639.47.

In proportion to population more patents were issued to citizens of Connecticut than to those of any other State, one to every 759 inhabitants; and next in order, in proportion to population, come the District of Columbia with one to every 1,123; Massachusetts with one to every 1,177; Rhode Island with one to every 1,383; New Jersey with one to every 1,453; New York with one to every 1,545; Colorado with one to every 1,761, and Illinois with one to every 1,874. The States to whose citizens the fewest patents were granted in proportion to the number of inhabitants are South Carolina, one to every 31,976; Mississippi, one to every 27,438; North Carolina, one to every 23,793; Georgia, one to every 14,354; Alabama, one to every 13,880, and Arkansas, one to every 13,430.

As to foreign countries, 617 patents were granted to residents of England, a larger number than to residents of any other foreign country; to those of Germany, 543; of the Dominion of Canada, 244; of France, 194; of Switzerland, 64; of Austria-Hungary, 61; of Sweden, 40; of Scotland, 39; of Belgium, 26; of New Zealand, 26; of New South Wales, 21; of Italy, 20; of Victoria, 20; of Russia, 15; of Ireland, 13; of Denmark, 10; of Mexico, 10; of the Netherlands, 9; of Brazil, 5; of India, 5; of Spain, 5; of Chile, 4; of Cuba, 4; of South Australia, 4; of Norway, 3; of Venezuela, 3; of Argentina, 2; of Hawaii, 2; and one each to citizens respectively of the Bahama Islands, British Guiana, the Canary Islands, Cape Colony, Ceylon, Colombia, Costa Rica, Ecuador, Guatemala, the Island of Guernsey, the Island of Jersey, Jamaica, Japan, the Orange Free State, Peru, the Straits Settlements, Tasmania, and Trinidad.

STATE OF THE WORK.

At the close of the year 1896 every division in the Office was in such condition respecting its work that an application for a patent filed in any of them would receive an examination upon the merits within thirty days. This was the result of a determined effort upon the part of the entire force, extending over months, to achieve this enviable record. But the next week the work again fell into arrears in some divisions, and it cannot be maintained at that level with the present force.

ACTIONS OF THE OFFICE.

The Office received during the year 1896, 45,987 original applications for patents, for designs, for reissues, and for the registration of trade-marks, an average of 884 cases each week. In addition there came before the Office for reconsideration and action 121,375 old applications, either by reason of the filing of amendments and other writings or under Rule 65, which requires the Office to make a reexamination of all cases which for six months the applicants have neglected to prosecute.

On December 31, 1896, there were pending in the Office awaiting its action 3,140 new applications, including trade-marks and designs, and 5,727 amended cases, a total of 8,867.

On December 31, 1896, there were pending in the Office awaiting the action of applicants, exclusive of interferences, 52,495 cases. The following shows by periods the time these applications have been pending:

Number pending two years and less	31,837
Number pending two years and less than five years	18,697
Number pending five years and less than ten years	1,812
Number pending ten years and less than fifteen years	142
Number pending fifteen or more years	9

On December 31, 1896, there were pending in the Office, exclusive of interferences, 61,145 live cases, many of which had been acted upon repeatedly. 21,352 of these applications have been pending two years or more; 1,939 have been pending five years or more; 149 have been pending ten years, and 12 have been pending fifteen years. There were 101 reissue applications that have been pending five years. I find that only in 487 applications which have received consideration by the Office had action on the full merits been withheld because of informalities.

REVISED RULES OF PRACTICE.

The rules of procedure have been revised on the following lines:

First. To remove from the rules those sections of the Revised Statutes which have from time to time been incorporated in them, and in place of incorporating certain sections in the rules it has been decided to publish the statutes, revised to the present time, in full in the same pamphlet with the rules.

Second. Matters of mere information and advice not made rules, but yet incorporated in many places in the rules, have been removed to the appendix of the pamphlet edition, and this information has been somewhat expanded to cover the substance of the customary letters to this Office for information.

Third. To collate all references to the same point in one place, and generally to exclude them from every other place, and this was thought desirable for the sake of clearness.

Incidentally the rules incorporate amendments which have been made during the last four years in their proper order without change. Amended Rule 64, requiring actions of the Office to be directed throughout to the merits, appears as Rule 25 in this revision. The rule requiring reexamination *sua sponte* by the Office after six months' inaction by the applicant appears as Rule 23 in this revision. The five years' rule appears as Rule 30, and the six months' rule appears as Rule 63.

As these rules have been in effect in the Office, the first for about three years and the others for nearly two years, they cannot be regarded as changes in the present rules. Apart from these the changes are not numerous, but the principal ones are as follows:

Rule 29 provides the same showing as a prereq-

uisite to an interference with an unexpired domestic patent that is required to overcome a foreign patent or a description.

Rule 31 conforms the practice respecting entering of amendments containing new matter to that in other cases, leaving the question of new matter to be disposed of by an action of the Examiner thereon instead of by petition for refusing to enter it.

Rule 32 provides a remedy, so far as the Office is concerned, for a mistake in the nonjoinder or misjoinder of parties, and in its last paragraph enables applications to be joined where this may be done without incorporating new matter not already before the Office in some other application.

Rule 36 provides for entering a claim after final rejection for the purpose of consideration on appeal without application to the Commissioner, and the whole matter of entering amendments during interference after final rejection or after allowance is left to the Examiner without application to the Commissioner.

Rule 38, in addition to prescribing the practice for the preparation of interferences, is intended to draw into the interference in the first instance all applicants who are at that time before the Office with reference to the same subject-matter, and this rule and Rule 51 are intended to prevent an interference from being a second time fought over through every tribunal in the Office and in the Court of Appeals of the District of Columbia upon the motion of an applicant already before the Office when the interference was originally declared and who has been purposely awaiting the result of the interference only to set on foot the same contention with the prevailing party in the first interference.

Rule 39 in its provision respecting the seniority of parties returns to the practice prevailing until about five years ago, by which seniority of parties was determined by the filing date of application, but the revised rules provide that when a patent is involved in interference the patentee shall be the senior party.

The first duties of the Primary Examiner in declaring an interference are all stated in Rule 39. His duties in dissolving an interference are all stated in Rule 47. The duties of the Examiner of Interferences are stated in Rule 48. But except as above noted no change has been made in the practice of the Office respecting these matters.

Rule 49 restricts motions intended for delay, and discourages successive motions and other devices to put off the decision of the question arising upon the merits.

Rule 67, making questions *inter partes* before the Primary Examiner also *inter partes* on appeal, conforms to the present practice of the Office.

Rules 87 and 88 distinctly provide for the full effect of those equitable principles which in exceptional cases cannot be disposed of except in verbal violation or contradiction of the rules: but these principles cannot, of course, apply to the functions of the Office as an office of registration of instruments affecting titles to patents, nor is it intended to leave an open door for claiming in numerous

cases that some exception to the rules should be allowed. They are intended to meet that class of cases which are recognized by the spirit and practice of courts of equity, and not in any manner to abrogate the rules on slight pretext or on insufficient grounds.

The full text of the rules is as follows:

CORRESPONDENCE.

1. Communications to the Patent Office must be addressed to the Commissioner of Patents.

2. A double correspondence with the inventor and an assignee, or with a principal and his attorney, or with two attorneys cannot generally be allowed.

3. The assignee of the entire interest of an invention is entitled to hold the correspondence with the Office.

4. Actions by the Office which are wanting in official propriety will be canceled from the files. Communications to the Office in violation of the requirements of decorum and courtesy will not be accepted or will be returned.

5. Separate letters must be written about assignments for record, final fees for patents, orders for copies, abstracts of title, complaints against officials, and every other distinct subject of communication.

POWERS OF ATTORNEY.

6. Before any person will be recognized as an attorney his special power of attorney in each case must be filed, and thereafter the correspondence will be held with him alone.

APPLICATIONS.

7. A complete application must comprise a petition, specification, oath, and, when the nature of the case admits, drawings. Only when models or specimens are called for by the Office will they be retained as parts of the application.

8. The following order of arrangement must be observed in framing the specification:

(1) Preamble stating the name and residence of the applicant and the title of the invention, and, if the invention has been patented abroad, the countries in which it has been so patented and the date and number of each patent;

(2) General statement of the object and nature of the invention, except in design applications;

(3) Brief description of the several views of the drawings;

(4) Detailed description;

(5) Claims;

(6) Signature of inventor;

(7) Attestation of two witnesses.

9. All parts of an application, papers in prosecution thereof, actions therein, and the depositions in contested cases must be plainly printed or written, in the English language, on legal-cap paper, on but one side, and leaving a wide margin on the left. Interlineations and erasures must be clearly referred to in marginal notes.

10. Every application signed or sworn to in blank or without the actual inspection by the applicant of

the petition and specification and every application of which any part has been altered or partly filled up after being signed or sworn to will be stricken from the files.

11. If several inventions claimed in a single application be of such a nature that a single patent may not be issued to cover them, the inventor will be required to limit the description, drawing, and claim of the pending application to the one invention which he may elect.

12. When an applicant files two or more applications relating to the same subject-matter of invention, all showing but only one claiming the same thing, the applications not claiming it must contain references to the application claiming it.

13. A reservation for a future application will not be permitted in a pending application.

14. When a forfeited application is renewed, the petition, specification, oath, and drawing of the original application may be used.

15. Papers not amounting to a complete application will be returned on request.

16. Neither files, records, models, specimens, nor compositions of matter, which by official requirement have become parts of pending cases or patent cases, will be returned; nor will they be taken from the Office for any purpose except in cases where certified copies or duplicates are not sufficient, and then only in the custody of an official where he will not be required to part with the actual possession.

17. Applications will be preserved in secrecy, except as provided in the interference rules; but copies of the files of abandoned applications, upon petition therefor, for sufficient cause, properly verified and served on the applicant or his attorney, will be furnished when ordered by the Commissioner.

OATHS.

18. The applicant, if the inventor, must make oath that he does verily believe himself to be the original and first inventor or discoverer of the art, machine, manufacture, composition, or improvement for which he solicits a patent, that he does not know and does not believe that the same was ever before known or used, and must state of what country he is a citizen and where he resides. In every original application the applicant must state, under oath, whether the invention has been patented to himself, or to others with his knowledge or consent, in any country, and, if it has been, the country or countries in which it has been patented, giving the date and number of each patent; that it has not been patented in any other country than those mentioned, and that, according to his knowledge and belief, the invention has not been in public use or on sale in the United States for more than two years prior to the application in this country, and this oath must be subscribed by the affiant.

An additional oath will be required in cases where the applications have not been filed in the Patent Office within a reasonable time after the execution of the original oath.

DRAWINGS.

19. The drawing must show (1) every feature of

the invention covered by the claims. When the invention consists of an improvement upon an old machine, the drawing must (2) exhibit the invention itself disconnected from the old structure, (3) and also in another view the specific improvement and such parts of the old structure as necessarily coöperate with it. (4) Pure white paper must be used, (5) ten by fifteen inches in size, (6) of a thickness corresponding to three-ply bristol-board, (7) calendered and smooth. (8) The views must be made with the pen only, in india-ink, to secure black and solid lines, (9) and with the fewest lines consistent with clearness. (10) They must not be too fine or crowded. (11) Surface shading must be open. (12) The different views must be consecutively numbered. (13) The same reference numerals or letters must refer to the same parts throughout all the views. (14) One of the shorter edges must be the top, (15) and a clear space of an inch and a quarter below the top marginal line must be left blank for the heading, which will be supplied by the Office in uniform style. (16) Each sheet must be signed by the inventor or the name of the inventor must be signed on the drawing by the attorney in fact (17) at the lower right-hand corner, with reference to the heading, (18) attested by two witnesses at the lower left-hand corner, (19) all views and signatures must be within marginal lines one inch from the edges, and if the drawing be arranged lengthwise of the sheet (20) the views and reference-numerals must read when the heading is toward the right. (21) One of the views best calculated to explain the nature of the invention must be designed with special reference to its reproduction in THE OFFICIAL GAZETTE on a reduced scale of about one-eighth. (22) No professional designations or advertisements or addresses will be permitted upon the face of the drawings, (23) and the drawings must not be folded for transmission to the Office.

20. All reissue applications must be accompanied by new drawings upon as large a scale as the original drawings.

MODELS.

21. The model, if called for, must clearly exhibit every feature of the mechanism which forms the subject of a claim of invention, must not be more than one foot in length, width, or height, and must be substantially made.

REISSUES.

22. The application for a reissue must be accompanied by the original patent, by an offer to surrender it if reissued, and by a certified abstract of title, giving the names of all assignees owning any interest in the patent. In case the application be made by the inventor it must be accompanied by the written assent of such assignees. If the reissue be refused, the original patent will, upon request, be returned.

23. An applicant for reissue must file with his petition a statement on oath as follows:

(1) That the original patent is inoperative or invalid.

(2) That such patent is inoperative or invalid by reason of a defective or insufficient specification, particularly specifying such defects or insufficiencies, or

(3) That such patent is inoperative or invalid by reason of the patentee claiming as his own invention or discovery more than he had a right to claim as new, distinctly specifying the part or parts so alleged to have been improperly claimed as new.

(4) Specifying the facts which constitute the inadvertence, accident, or mistake under which the patent originally issued.

(5) That said errors arose without any fraudulent or deceptive intention on the part of the applicant.

THE EXAMINATION.

24. Applications will be examined in their order of filing; but the following applications will have precedence over others, in the order numbered:

(1) Applications wherein the inventions are deemed of peculiar importance to some branch of the public service, and when for that reason the head of a Department of the Government requests immediate action, and the Commissioner so orders;

(2) Applications for reissues;

(3) Applications covering inventions patented by the same inventor in foreign countries, and applications interfering therewith;

(4) Applications which would interfere with another application or with an unexpired patent;

(5) Cases remanded by an appellate tribunal for further action by the Office;

(6) Amended applications.

25. Where the specification and claims are such that the invention may be understood, the examination of a complete application and the action thereon will be directed throughout to the merits; but in each letter the Examiner shall state or refer to all his objections. Only in cases presenting patentable substance will requirements in matters of form be insisted on.

26. Suspensions of actions on applications will be granted only for cause and for a reasonable time specified.

REJECTIONS AND REFERENCES.

27. Upon the rejection of a claim in an application upon references the Examiner will cite the best at his command, fully identified, giving also the class and subclass when patents are cited, and will apply them to the rejected claim. When the rejection is made on facts, the data will be specific, and when within the personal knowledge of an officer of the Bureau they will be supported, when called for, by his affidavit.

28. An applicant will be considered to persist in his claim for a patent without altering his specification in case he fail to act in prosecution of the same for six months after the Office action thereon, and thereupon the Examiner will make a reexamination of the case.

29. When a claim in an application is rejected on reference to a domestic patent which substantially shows or describes but does not claim the rejected invention, or on reference to a foreign patent or to

a printed publication, and the applicant shall make oath to facts showing a completion of the invention in this country before the filing of the application on which the domestic patent issued, or before the foreign patent was issued, or before the date of the printed publication, then the patent or publication cited will not bar the grant of a patent to the applicant. When the rejection is on reference to an unexpired domestic patent which claims the rejected invention, a like affidavit to like facts will be a prerequisite to an interference involving the application and the patent.

30. In every case pending before the Office more than five years in which the record raises the presumption that there have been intentional delays in prosecution the Examiner may require the applicant to show cause why the case was not more rapidly prosecuted, and at the hearing thereon or upon failure of the applicant to appear the Examiner will determine, under all the circumstances of the case, whether there have been intentional and unreasonable delays in prosecution, and upon finding the fact to be so he will reject the case for that reason.

AMENDMENTS.

31. Before final rejection and as often as the Examiner raises new objections or presents new references or reasons for rejection the applicant may amend, but not to incorporate new matter which is a departure from the invention originally presented, unless to combine applications. Amendments objectionable for new matter and departure will be entered for consideration, and when the scope of the claims is affected the claims will be rejected, and in every case the Examiner will require the objectionable new matter to be canceled.

32. New parties may be admitted to a pending application as joint inventors, or some of the parties may be dropped, where they all consent in writing and where the non-joinder or misjoinder was by mistake and without fraudulent intent.

And applications may be amended by dividing out distinct though related inventions or by uniting two or more applications where the inventions are related, but not to put the contents of a later application into an earlier one.

33. In every amendment the matter to be stricken out or inserted must be specified and the point indicated where the erasure or insertion is to be made.

34. When an applicant presents a claim for matter originally shown or described but not substantially embraced in the statement of invention or claim originally presented, he will file a supplemental oath to the effect that the subject-matter of the proposed amendment was part of his invention, was invented before he filed his original application, was not known or used before his invention, was not in public use or on sale in this country for more than two years before the date of his application, and has not been abandoned.

35. During the pendency of an interference amendments of an application will not be entered, except to withdraw subject-matter not adjudged to interfere, or to avoid interference, or to disclaim,

or to claim a patentable invention claimed by another party and shown and described but not claimed by the party who amends, or to comply with the Examiner's requirements, or to add necessary parties, or to drop parties.

36. After final rejection amendments will not be entered, except to conform to the requirements of the Examiner, or to cancel claims, or to present the twice-rejected claims and the related parts of the specification and drawings in better form for consideration on appeal.

37. After the allowance of an application amendments will not be entered except by leave and for cause.

INTERFERENCES.

38. Before an interference will be declared the invention which is to form the subject of the controversy must be claimed by every party and must be considered to be patentable to every party in the absence of the others. When an applicant who is required to put his application in other respects in condition for interference fails to do so for thirty days, he will nevertheless be made a party to the interference and the proceeding will not be further delayed.

39. When patentable substance has been found in an original or reissue application, which is also claimed, and it is found by the Primary Examiner that matter claimed therein would interfere with any pending application, or with an unexpired patent, the Primary Examiner will declare an interference, that the question of priority of invention may be determined; he will clearly define the issue or issues, designating the claims involved in each count, and will prepare notices of interference for all the parties, embodying the issues and the claims involved and disclosing the name and residence of each party, and of his attorney, and of any assignee, and if any party be a patentee, the date and number of the patent; he will determine the seniority of the parties by the filing dates of their respective applications, except when an unexpired patent is involved, in which case the patentee will be the senior party, or, if there be more than one patent involved, the patentee filing first will be senior; and he will forward to the Examiner of Interferences the notices and a statement disclosing the foregoing matters.

40. Each party to the interference will be required to file a concise preliminary statement of the following facts, under oath, on or before a date to be fixed:

(1) The date of original conception of the invention set forth in the declaration of interference;

(2) The date upon which a drawing of the invention was made;

(3) The date upon which a model of the invention was made;

(4) The date upon which the invention was first disclosed to others;

(5) The date of the reduction to practice of the invention;

(6) A statement of the extent of use of the invention.

If a drawing or model has not been made, or if

the invention has not been reduced to practice or disclosed to others, or used to any extent, the statement must specifically disclose these facts.

When the invention was made abroad the statement must set forth:

(1) That applicant made the invention set forth in the declaration of interference:

(2) Whether or not the invention was ever patented; if so, when and where, giving the date and number of each patent:

(3) Whether or not the invention was ever described in a printed publication; if so, when and where, giving the title, place, and date of such publication:

(4) Whether the invention was ever introduced into this country; if so, giving the circumstances, with the dates connected therewith, which are relied upon to establish the fact.

41. The statement must be sealed up in a separate envelop before filing, and the name of the party filing it, the title of the case, and the subject of the invention indicated on the envelop.

42. The preliminary statements will not be open to the inspection of opposing parties until each shall have been approved, or the time for filing the same shall have expired, and it also appears that further testimony must be submitted. After the time for filing preliminary statements has expired, and after the approval of such as have been submitted, the parties will be permitted to see and to obtain copies of each other's file-wrappers and so much of their contents as relate to the interference.

43. From any party in default in filing or perfecting his preliminary statement no testimony will be received to prove that he made the invention at a date prior to his application.

44. When an application is involved in an interference in which a part only of the invention is included in the issue, the applicant may file certified copies of the parts of the specification, claims, and drawings which cover the interfering matter, and such copies may be used in the proceeding in place of the original application, and the application will then be withheld from inspection.

45. When an application involved in an interference shows and describes, without claiming, a patentable invention claimed by another party thereto, the applicant may, at any time within twenty days after the preliminary statements have been approved, on motion duly made, file an amendment of his application claiming such invention, and on the admission of such amendment such claim will be included in the interference.

46. When there is ground for belief that a party in an interference has not received the notice of the proceeding and does not know of it, further notice will be given in THE OFFICIAL GAZETTE.

47. The Primary Examiner will dissolve an interference, first, when no interference in fact exists; second, when there has been such irregularity in declaring the same as will preclude the proper determination of the question of priority or originality; third, when the claims involved in the in-

interference are not patentable; fourth, when a party has no right to make the claims; fifth, upon the filing of a declaration of abandonment of invention; sixth, upon the filing of a disclaimer of all the interfering matter or on the filing of a declaration of abandonment of the application, if in either case this is done before the preliminary statements are open to opponents; but if filed later the consideration of such disclaimer or declaration of abandonment will be postponed until after a decision of the question of priority or originality of invention.

48. The Examiner of Interferences will issue the notices of the interference proceeding, will fix times for filing the preliminary statements and determine their sufficiency, will fix times for the taking of testimony, will transmit allowable motions concerning the burden of proof, patentability, interference in fact, and irregularity in declaring the interference to the Primary Examiner, and will himself decide all other motions and questions of form and procedure in interference practice, and will determine the questions of priority or originality of invention, and fix the limit of appeal.

49. Motions made in good faith within twenty days after the preliminary statements have been approved and not intended for delay will be decided on interlocutory hearing, but not motions that can be as well determined at the hearing on the merits or afterward. Successive motions will not be heard, nor will motions made later than twenty days after the preliminary statements have been approved, unless upon a showing that they could not have been made earlier.

50. Motions will not operate as a stay, except by leave, for cause.

51. In interference cases, when another applicant appears who will ultimately be in interference concerning the same subject-matter, he and all the parties to the pending proceeding will be notified, and on seasonable motion by any of them he may be made a party to the pending proceeding upon such terms as to testimony that may already have been taken as the Examiner of Interferences may prescribe, if such course would more advantageously dispose of the whole contention between all parties, and under the same condition, when new references are discovered, the interference may be suspended to consider them.

52. In interference cases the question of priority or originality of invention will be determined, either upon the testimony, or upon a concession of priority, or by judgment against the junior parties upon the record, or by default.

53. Whenever a final award of priority has been made in an interference, the claims of the defeated party involved in the issue which are made or can be made by the prevailing party will be finally rejected; but other claims which cannot be made by the prevailing party may be allowed to a defeated party.

54. The application of the successful party in interference cases will not be passed to issue until the limit of appeal has expired, and in cases decided by the Commissioner not until forty days after the date

of his decision, unless the defeated parties shall waive their right of appeal.

TESTIMONY IN INTERFERENCES, PUBLIC-USE PROCEEDINGS, AND OTHER CONTESTED CASES.

55. Reasonable notice shall be given to opposing parties, as hereinafter provided, of the time when and place where depositions will be taken, of the cause or matter in which they are to be used, and of the names and residences of witnesses to be examined, and the opposing party shall have full opportunity to cross-examine the witnesses. Neither party shall take testimony in more than one place at the same time, nor so nearly at the same time that reasonable opportunity for travel from one place of examination to the other cannot be had.

56. Service of such notice may be made (1) by delivering a copy of the notice to the adverse party or to his attorney; (2) by leaving a copy at the usual place of business of the adverse party or with his attorney or some one in his employment; (3) when such adverse party or his attorney has no usual place of business, by leaving a copy at his residence, with a member of his family over fourteen years of age and of discretion; (4) by transmission by registered letter; (5) by express, or (6) in such manner as the Commissioner may order. Such notice shall, with sworn proof of the fact, time, and mode of service thereof, be attached to the depositions, whether the opposing party shall have cross-examined or not.

57. Each witness before testifying shall be duly sworn according to law by the officer before whom his deposition shall be taken. The pages of each deposition must be numbered consecutively and the name of the witness written at the top of each page. The testimony will be taken in answer to interrogatories, with the questions and answers committed to writing in their regular order by the officer, or in his presence by some person not interested in the case either as a party thereto or as attorney; but the depositions may be written out by other persons in the presence of the officer or may be taken stenographically in presence of the officer, and when written out shall be read by or to the witness and then signed by him in the presence of the officer. The officer shall annex to the deposition his certificate showing (1) the due administration of the oath by the officer to the witness before the commencement of his testimony; (2) the name of the person by whom the testimony was written out, and the fact that, if not written by the officer, it was written or taken stenographically in his presence; (3) the presence or absence of the adverse party; (4) the place, day, and hour of commencing and taking the deposition; (5) the reading by or to each witness of his deposition before he signs the same, and (6) the fact that the officer was not connected by blood or marriage with either of the parties, nor interested, directly or indirectly, in the matter in controversy. The officer shall sign the certificate and affix thereto his seal of office, if he have such seal. He shall then, without delay, securely seal up all the evidence, notices, and paper

exhibits, inscribe upon the envelop a certificate, giving the title of the case, the name of each witness, and the date of sealing, address the package, and forward the same to the Commissioner of Patents. If the weight or bulk of an exhibit shall exclude it from the envelop, it shall be authenticated by the officer and transmitted in a separate package, marked and addressed as above provided.

58. Upon notice given to the opposite party before the closing of the testimony any official record and any special matter contained in a printed publication, if competent evidence and pertinent to the issue, may be used as evidence at the hearing.

59. All depositions which are taken must be duly filed in the Patent Office. On refusal to file, the Office at its discretion will not further hear or consider the contestant with whom the refusal lies, and the Office may, at its discretion, receive and consider a copy of the withheld deposition, attested by such evidence as is procurable.

60. By leave of the Commissioner, first obtained, testimony may be taken in foreign countries upon complying with the following requirements:

(1) Such permission will be granted only upon motion duly made designating a place for the examination of the witnesses at which an officer duly qualified to take testimony under the laws of the United States in a foreign country shall reside, and it must be accompanied by a statement under oath that the motion is made in good faith and not for purposes of delay, setting forth the names of the witnesses, the particular facts to which it is expected each will testify, and the grounds on which is based the belief that each will so testify.

(2) It must appear that the testimony desired is material and competent and that it cannot be taken in this country at all or without hardship and injury to the moving party greatly exceeding that to which the opposite party will be exposed by the taking of such testimony abroad.

(3) Upon the granting of such motion a time will be set within which the moving party shall file in duplicate the interrogatories to be propounded to each witness, and serve a copy of the same upon each adverse party, who may, within a designated time, file, in duplicate, cross-interrogatories. Objections to any of the interrogatories or cross-interrogatories may be filed at any time before the depositions are taken, and such objections will be considered and determined upon the hearing of the case.

(4) As soon as the interrogatories and cross-interrogatories are decided to be in proper form the Commissioner will cause them to be forwarded to the proper officer with the request that, upon payment of or satisfactory security for his official fees, he notify the witnesses named to appear before him within a designated time and make answer thereto under oath, and that he reduce their answers to writing and transmit the same, under his official seal and signature, to the Commissioner of Patents, with the certificate prescribed in Rule 57.

(5) By stipulation of the parties the requirements of paragraph 3 as to written interrogatories and

cross-interrogatories may be dispensed with, and the testimony may be taken before the proper officer upon oral interrogatories by the parties or their agents.

61. In contested cases six copies of the printed testimony, including the notices of the interference and the preliminary statements, must be furnished one week before the day of hearing; but testimony filed in manuscript cannot be withdrawn by the parties for printing. When desired, the Office will print the testimony at the cost of the parties.

62. Testimony taken in any proceeding in the Patent Office may be used in any other proceeding between the same parties, so far as relevant and material.

APPEALS, PETITIONS, AND MOTIONS.

63. In appealable cases in which no limit of appeal is fixed no appeal will be entertained by any tribunal in the Office unless taken within six months from the action which puts the case in condition for appeal, unless it be shown to the satisfaction of the Commissioner that such delay was unavoidable.

64. Petitions to the Commissioner will lie only from actions which in substance have been twice considered by the Examiner or a second consideration waived.

65. The action of the Primary Examiner or of the Examiner of Interferences will not be reviewed or his discretion controlled in matters of form or procedure, except when there has been an abuse of discretion.

66. No appeal on the patentability of an opponent's claim or upon an opponent's right to make the claim will be heard.

67. Questions *inter partes* before the Primary Examiner will be *inter partes* on appeal.

68. In *ex parte* cases matters of form and procedure, when reviewable under the foregoing rules, and the question of division, may be brought up by petition to the Commissioner. In contested cases matters of form and procedure may be brought up by appeal on motion.

69. Appeals and petitions must contain a specific statement of the reasons therefor.

70. Notices of appeals and motions in contested cases must be served upon all the opposing parties unless such notice is dispensed with for cause.

71. In *ex parte* cases upon the filing of an appeal or petition the Primary Examiner shall, ten days before the date of hearing, furnish the appellate tribunal and the appellant or petitioner with a statement of the grounds of his decision.

72. In contested cases the parties will file six copies of their printed briefs, the junior party or the appellant five days before the hearing and the senior party or the appellee one day.

73. The Examiners-in-Chief and the Examiner of Interferences will direct the attention of the Commissioner to any matter which in any case before them establishes the fact that no interference exists, or that there has been fatal irregularity in declaring the same, or which amounts to a bar to the grant of a patent, or which anticipates any claim.

74. When an appeal is taken to the Court of Appeals of the District of Columbia, the appellant shall give notice thereof to the Commissioner, and file in the Patent Office, within forty days from the date of the decision appealed from, his reasons of appeal, specifically set forth in writing.

75. Cases heard by an appellate tribunal will not be further acted upon by the Primary Examiner except for the consideration of matters not adjudicated, nor will amendments be received except to carry out recommendations or official requirements, unless by consent of the Commissioner.

76. Cases will not be reheard except upon the principles applied by courts in the granting of rehearings or upon the principles governing new trials at law.

ALLOWANCE.

77. After the notice of allowance of an application is given, the case will not be withdrawn from issue on account of any mistake or change of purpose of the applicant or of his attorney, nor for the purpose of enabling the inventor to procure a foreign patent, nor in any other case, without the approval of the Commissioner.

78. The weekly issue of patents will close on Thursday, and the patents of that issue will bear date as of the third Tuesday thereafter.

79. The patent will be delivered or mailed on the day of its date to the attorney of record, if there be one; if not, to the patentee; or, if the attorney so request, to the patentee or assignee of an interest therein.

ASSIGNMENTS.

80. If the assignee hold an undivided part interest, the patent will, upon request, issue jointly to the inventor and the assignee; but the assignment must first have been entered of record and at a day not later than the date of the payment of the final fee; and if the assignment be dated subsequently to the execution of the application, it must give the date of execution of the application, or the date of filing, or the serial number.

81. No instrument will be recorded which does not, in the judgment of the Commissioner, amount to an assignment, grant, mortgage, lien, incumbrance, or license, or which does not affect the title of the patent or invention to which it relates. Such instrument should identify the patent by date and number; or, if the invention be unpatented, the name of the inventor, the serial number, and date of the application should be stated.

82. An order for a copy of an assignment must give the book and page of the record.

CORRECTION OF PATENTS.

83. Whenever a mistake, incurred through the fault of the Office, is clearly disclosed by the records or files of the Office, a certificate stating the fact and nature of such mistake, signed by the Secretary of the Interior, countersigned by the Commissioner of Patents, and sealed with the seal of the Patent Office, will, at the request of the patentee or his assignee, be indorsed without charge upon the Letters Patent and recorded in the records

of patents, and a printed copy thereof attached to each printed copy of the specification and drawing.

Whenever a mistake, incurred through the fault of the Office, constitutes a sufficient legal ground for a reissue, such reissue will be made, for the correction of such mistake only, without charge of Office fees, at the request of the patentee.

Mistakes not incurred through the fault of the Office and not affording legal grounds for reissues will not be corrected after the delivery of the Letters Patent to the patentee or his agent.

CAVEATS.

84. Caveats must comprise a petition, a specification, oath, and, when the nature of the case admits of it, a drawing.

PAYMENTS AND FEES.

85. All payments to the Office must be made in certificates of deposit, post-office money-orders, or certified checks, payable to the order of the Commissioner of Patents or indorsed to him, or in cash, and must be accompanied by a letter stating the amount and for what purpose it is to be applied. After the payment of money has been made, except for final fees, it will not be repaid upon a change of purpose or the abandonment of any application or appeal.

86. Office fees must be paid in advance and all transportation charges prepaid.

EQUITY.

87. The Office, to the extent of its jurisdiction, will consider equitable rights and apply equitable remedies, and whenever the foregoing rules and the established rules of equity are at variance respecting the same matter the rules of equity will prevail, except in matters concerning the ownership or title of inventions, applications, patents, or interests therein.

88. It is the design of the Constitution and the patent laws to secure to the inventor not that which is a matter of common right, nor the property of another, but what he has himself created. The duty of the Office is to grant nothing which already belongs to the domain of the public, but, on the other hand, not to withhold from the inventor any portion of the full benefit of his invention. Its function is to draw the line with even justice between the two.

The foregoing rules are intended to secure this object, and therefore are to be construed and applied in that sense and toward that end.

The foregoing rules are hereby established for the conduct of proceedings in the Patent Office and all other rules and practices, inconsistent herewith, are hereby repealed and annulled, and these regulations will be in effect on and after February 9, 1897.

CIVIL SERVICE IN THE PATENT OFFICE.

In 1869 the Patent Office was reorganized under the direction of the Hon. Samuel S. Fisher, Commissioner of Patents, and the system of competitive and non-competitive examinations for appointments and promotions was introduced. In 1871 a general law was passed by Congress authorizing the

President to establish rules and regulations for the admission of persons in the civil service, but for lack of continued appropriations by Congress the rules were suspended by the President in 1875. In the Patent Office the rules were, however, continued, and to greater or less extent followed, until the law of January 16, 1883, went into effect. Since then the civil service law and rules have been in full effect.

Partly as the result of the act of 1883 and partly as a result of competitive examinations held ever since Commissioner Fisher's incumbency of office in 1869 to 1871 the examining corps at the present time consists of the following force: 33 Primary Examiners, 30 of whom received their appointments as Primary Examiners upon competitive examinations and 3 without; 34 First Assistant Examiners, 33 of whom received their appointments as such upon competitive examinations and 1 without; 38 Second Assistant Examiners, 32 of whom received their appointments as such upon competitive examinations, 5 without, and 1 by reduction from First Assistant Examiner; 43 Third Assistant Examiners, 34 of whom received their appointments as such upon competitive examinations and 9 without; 52 Fourth Assistant Examiners, 39 of whom received their appointments upon competitive examinations, 1 without, 1 by transfer from another Department, and 11 by reduction from higher grades.

Under the present administration 64 original appointments have been made in the examining corps in the lowest grade strictly upon competitive examinations conducted under the direction of the Civil Service Commission, and 3 appointments have been made by transfers from other Bureaus or Departments in the lowest grade. During the same period there have been made 141 promotions within the Office in the corps. All the original appointments were made first for the probationary period of six months, and in all cases but one the appointments were made permanent at the end of the probationary period. A specimen set of the examination papers upon which several appointments have been made is here submitted.

SERIES No. 85.
Oct., '96.

Sheet 1.

TIME.		UNITED STATES CIVIL SERVICE COMMISSION.
Commenced.....	.....	DEPARTMENTAL SERVICE—PATENT OFFICE—SPECIAL.
Finished.....	.....	Assistant Examiner Examination.
MARKS.		Examination Number: ..
Question 1.....	.....	N. B.—Eight consecutive hours are allowed for this examination. The sheets are numbered from 1 to 5, inclusive. Each competitor should be certain that all the sheets are issued to him.
Question 2.....	.....	FIRST SUBJECT—Physics.
Question 3.....	.....	N. B.—Do not write on this sheet. Blank sheets will be furnished for the answers to the questions hereon. Each answer should be numbered to correspond with the number of the question. Illustrate by diagram when practicable.
Question 4.....	.....
Question 5.....	.....
Total.....	.....
Average.....	.....

Question 1. What are the laws of fluid pressure due to gravity? Find the total pressure in dynes on the bottom and sides of a cubical vessel (volume 1L.), half filled with mercury and the remainder filled with water. (Specific gravity of mercury=13.6.) [Give work in full.]

Question 2. Define capacity for heat, specific heat, calorie. Describe the Bunsen ice calorimeter and its method of use.

Question 3. What is meant by the critical angle, and how is it

related to the refractive index? What is the critical angle for the surface of separation between air and a medium of refractive index 2?

Question 4. Deduce the formula for the tangent galvanometer. What is the difference between a tangent and a sine galvanometer?

Question 5. What laws govern the production of induced currents? What is Lenz's law? Illustrate by an example.

(N. B.—The competitor will not write in the form below.)

CENTRAL BOARD OF EXAMINERS' REPORT OF MARKS.

(ASSISTANT EXAMINER EXAMINATION.)

Washington, D. C.,....., 189..

Subjects.	Averages.	Relative weights.	Products of averages multiplied by weights.
First—Physics	1	.....
Second—Technics	1	.....
Third—Mathematics and chemistry	1	.....
Fourth—Mechanical drawings	1	.....
Total	4	.....
General average

SERIES No. 85.
Oct., '96.

Sheet 2.

TIME.		UNITED STATES CIVIL SERVICE COMMISSION.
Commenced.....	.....	DEPARTMENTAL SERVICE—PATENT OFFICE—SPECIAL.
Finished.....	.....	Assistant Examiner Examination.
MARKS.		Examination Number: ..
Question 1.....	.....	SECOND SUBJECT—Technics.
Question 2.....	.....	N. B.—Do not write on this sheet. Blank sheets will be furnished for the answers to the questions hereon. Each answer should be numbered to correspond with the number of the question. Illustrate by diagrams when practicable. Give work in full and plainly indicate the answers.
Question 3.....	.....
Question 4.....	.....
Question 5.....	.....
Total.....	.....
Average.....	.....

Question 1. Describe the manufacture of water gas. How are the by-products separated?

Question 2. Describe the manufacture and galvanizing of iron wire.

Question 3. Describe the safety devices commonly employed on passenger elevators.

Question 4. Describe the manufacture of bicycle tubing.

Question 5. Describe the construction of a polyphase motor, and explain its mode of operation.

SERIES No. 85.
Oct., '96.

Sheet 3.

TIME.		UNITED STATES CIVIL SERVICE COMMISSION.
Commenced.....	.....	DEPARTMENTAL SERVICE—PATENT OFFICE—SPECIAL.
Finished.....	.....	Assistant Examiner Examination.
MARKS.		Examination Number: ..
Question 1.....	.....	THIRD SUBJECT—Mathematics and Chemistry.
Question 2.....	.....	N. B.—Do not write on this sheet. Blank sheets will be furnished for the answers to the questions hereon. Each answer should be numbered to correspond with the number of the question. Illustrate by diagrams when practicable. Give work in full and plainly indicate the answers.
Question 3.....	.....
Question 4.....	.....
Question 5.....	.....
Total.....	.....
Average.....	.....

Question 1. (a) What number added to both terms of the ratio $a:b$ will double the ratio? (b) What number added to each of the numbers $\frac{1}{5}$, 1 , $\frac{88}{5}$, and 42 will make them the four terms of a proportion?

Question 2. Solve the equations

$$2x + 20y = 5xy$$

$$\frac{1}{x^2} + \frac{1}{100y^2} = \frac{17}{400}$$

Question 3. Determine the numbers of regular convex polyhedrons possible.

Question 4. How may the molecular weight of a chemical compound that is volatile without decomposition be determined? Explain fully the fundamental principles involved.

Question 5. Point out the similarities and differences between the three elements Cl, Br, and I, and also of their corresponding compounds with silver.

SERIES No. 85.
Oct.-'96.

Sheet 4.

TIME.		UNITED STATES CIVIL SERVICE COMMISSION.
Commenced.....		DEPARTMENTAL SERVICE—ASSISTANT EXAMINER EXAMINATION—PATENT OFFICE.
Finished.....		Examination Number:..
MARKS.		
Sheet 4.....		FOURTH SUBJECT—Mechanical drawings.
Sheet 5.....		Describe the construction and operation of the machine shown in this drawing, naming the different views shown, and the mechanical powers that appear. State the use of the machine.
Total.....		
Average.....		

Fig. 1.

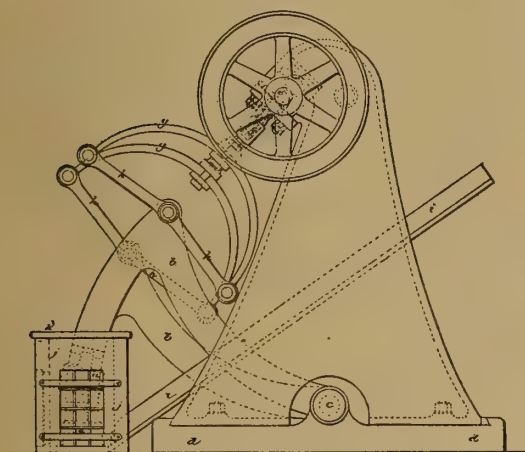


Fig. 2.

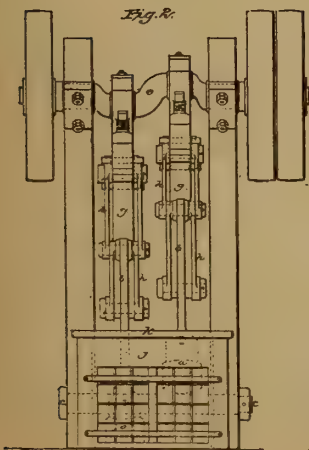
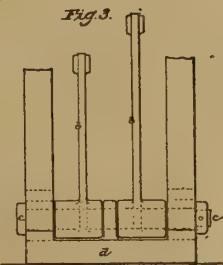


Fig. 3.

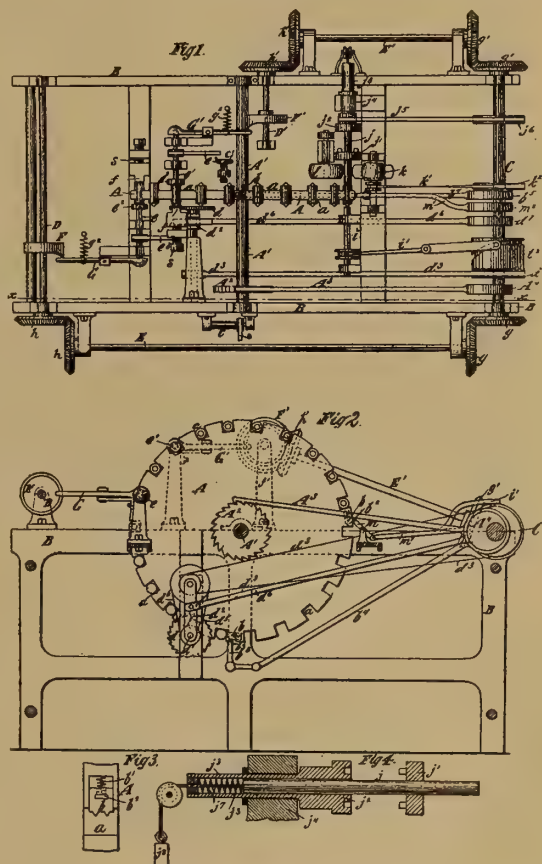


SERIES No. 85.
Oct.-'96.

Sheet 5.

TIME.		UNITED STATES CIVIL SERVICE COMMISSION.
Commenced.....		DEPARTMENTAL SERVICE—ASSISTANT EXAMINER EXAMINATION—PATENT OFFICE.
Finished.....		Examination Number:..
		FOURTH SUBJECT—Mechanical Drawings—Continued.

Describe the construction and operation of the machine shown in this drawing, naming the different views shown, and the mechanical powers that appear. State the use of the machine.



Of the 67 men so appointed 6 had obtained a scientific education in the Massachusetts Institute of Technology, 13 at Worcester Polytechnic Institute, 2 at the Rensselaer Polytechnic Institute, 2 at the Royal Polytechnic Institute at Munich, 5 at Cornell, 2 at Johns Hopkins, 2 at Yale, 3 at the Naval Academy, 6 at the University of Michigan, 5 at Lehigh University, 1 in Berlin, Germany, and 1 in London. Of the others 10 had achieved what may fairly be considered an equivalent education by private study or in other ways, and the remaining number had less advantages in the way of formal education and training. Of the whole number appointed 32 had had experience in the practice of one or another of the industrial arts, of from one to three years, before their appointments. Of the whole number it may be said that they have made good records in the Office, and of some that they have made highly meritorious records. Of the whole number 9 have resigned to take better po-

sitions in scientific or technical pursuits, 1 has died, and 1 has been transferred to another Bureau.

During the present administration promotions in the corps have been made as follows: 57 from the grade of Fourth to Third Assistant Examiners, all upon competitive examinations held within the Office, and in each case the man standing highest on the list was selected; 40 from the grade of Third to Second Assistant Examiners, all upon competitive examinations held within the Office, and in each case the man standing highest on the list was selected; 25 from the grade of Second to First Assistant Examiners, all as the result of competitive examinations, and in all but two the highest on the list was chosen, and in the two exceptional cases the apparent cause for a different selection was subsequently removed and their promotions followed.

From First Assistant Examiners, Law Clerks, and Chief Clerk to Primary Examiners 9 promotions have been made, all as the result of competitive examinations. Seven were selected as standing highest on the list, and 2 from those standing lower down were selected by reason of records and achievements in the Office as Law Clerk and as Chief Clerk, which were regarded as determining the fitness upon strictly civil service grounds. From the examining corps 2 Primary Examiners have been appointed by the President and confirmed by the Senate for the position of Examiner-in-Chief upon the same principle of selection.

In selecting Fourth Assistant Examiners for temporary appointment, as hereinbefore recited, I had in each case before me the names of three candidates certified by the Civil-Service Commission, and in making the selection consideration was given to the circumstance, first, that the candidate was shown by the affidavits attached to the examination papers, and intrinsically by the papers themselves, to have had that discipline of mind which comes from systematic intellectual pursuits under advantageous circumstances; second, that the candidate had had experience in the industrial and mechanical pursuits or had shown exceptional aptitude for such pursuits, and, third, that so far as the papers showed or a judgment thereon could be formed the candidate would with experience probably achieve that higher discipline and that combination of attainments in law and aptitude for the applied sciences that would fit him to become a Primary Examiner.

In no case have political considerations entered into the question of appointments or promotions, and except in three cases the political preferences of the candidate have not been known.

I think it may be said without ostentation and without mental reservation that the civil service law and the rules under it and the practice grounded upon both have been sincerely applied both in the letter and in the spirit.

At the beginning of this administration there were 605 employees in the Patent Office, of which all of the Assistant Examiners, 167 in number, were in office upon a tenure of merits and achievements alone. The Primary Examiners might have been

appointed upon non-competitive examinations, but none were so appointed. The librarian, 3 Assistant Chiefs of Divisions, and 260 members of the clerical force were within the classified service, under the full operation of competitive examinations as to appointments. The Examiner of Interferences, the Chief Clerk, the Financial Clerk, 3 Chiefs of Divisions, and clerk to the Commissioner were not within the classified service, but have since been placed under it. So also of the messenger and property clerk, the 3 messengers at \$840, the 20 assistant messengers at \$720, and the 15 messenger boys at \$360 a year.

On May 6, 1896, by reason of the clerical and grade duties performed by members of the laboring force receiving \$600 and \$480 a year, 66 out of the whole number of 90 were placed under the classified service.

The 5 clerks at \$1,800 were in office and in the same positions prior to this administration. Of the 6 clerks at \$1,600, 5 are in the same positions, and 1 was promoted on August 1, 1894; of the 14 clerks at \$1,400, 9 were in their present positions prior to the present administration, and 5 have been appointed or promoted during the last four years; of the 51 clerks at \$1,200, 38 were in their present positions, 12 have been promoted or appointed, and 1 reduced from a higher grade during this administration; the position of skilled laborer is filled by a reduction made during the present administration from the examining corps; of the 3 skilled draftsmen at \$1,200 and the 4 at \$1,000, 3 are in the same positions, and 1 has been appointed during the last four years; of the 25 clerks at \$1,000 a year, 11 are in the same positions, 13 have been promoted or appointed, and 1 reduced from a higher grade during the last four years; of the 5 model attendants at \$1,000, 3 are in the same positions and 2 have been promoted during the present administration; of the 10 model attendants at \$800, 3 are in the same positions held prior to this administration, 6 have been appointed or promoted, and 1 reduced from a higher grade during the last four years; of the 60 copyists at \$900 a year, 25 are in the same positions, 33 have been promoted or appointed, and 2 reduced during the last four years; of the 76 copyists at \$720 a year, 20 are in the same positions, 48 have been promoted or appointed, and 8 reduced during the last four years. The messenger and property clerk at \$1,000 was appointed February 15, 1894. Of the 3 messengers at \$840, 1 was in the same position, and 2 have been since appointed; of the 20 assistant messengers at \$720 a year, 5 were in their present positions, 14 have been appointed or promoted, and 1 reduced under the present administration; of the 45 laborers at \$600, 6 are in the same positions, 36 have been appointed or promoted, and 3 reduced from higher grades during the present administration; of the 45 laborers at \$480 a year, 14 are in the same positions, 30 have been appointed or promoted, and 1 reduced during the last four years; and of the 15 messenger boys at \$360 a year, 3 are in the same positions, and 12 have been appointed during the last four years.

The best results of the civil service system cannot be realized until the Office is fairly representative of the political parties in the country in the political preferences of its individual members. This at present is not the case, for, although the civil service act has been in operation somewhat over twelve years, and though eight of those years have been under Democratic administrations and four under a Republican administration, the *personnel* of the Patent Office is probably four-fifths Republican to-day. Of the Examiners-in-Chief, 2 are Republicans and 1 a Democrat, 2 having been appointed under the present administration. Of the Primary Examiners, including the Examiner of Interferences, 26 are Republicans and 7 are Democrats. Of the 3 Chiefs of Divisions, 2 are Democrats and 1 Republican. Of the 3 Assistant Chiefs of Divisions, all are Republicans. The librarian, the machinist, and the Financial Clerk are all Republicans. Of the force in the four rooms of the Commissioner and Assistant Commissioner, 7 in number, 5 are Republicans and 2 are Democrats. Of the 5 \$1,800 clerks, which include the Application Clerk and the Clerk of Interference and Appeal Records, all are Republicans. Of the 6 clerks at \$1,600, all are Republicans. Of the 14 clerks at \$1,400, I cannot speak so positively, but nearly all are Republicans, and of the remainder of the force I am not able to speak so positively, nor is it necessary. No inquiry has ever been made, nor will it be proper to make it, but these things transpire in various ways and come to be sufficiently understood; but the total result is that a body of opinion is formed with a distinct political bias, not outspoken but real, and not always friendly. One result is unusual professions of loyalty during the early stages of an administration, not always followed by acts and expressions entirely consistent therewith.

But these are the unfortunate incidents of the civil service system in its transitional stage from a force almost wholly of one political party to one only approximately representative of the strength of parties among the people. As a whole it may be said without fear of even attempted contradiction that political expression and political independence of action are upon a satisfactory basis in the Patent Office, and that the civil service system has been fully justified here in its tendencies and in its results.

REGULATIONS RESPECTING PROMOTIONS.

There is now under way a plan for the regulation of promotions in the Patent Office under the direct supervision of the Civil Service Commission. If its introduction has not been finally determined upon, I suggest some considerations why it may not be found desirable. For examining candidates for admission to the force and for furnishing highly efficient officers for this Bureau there is little room for doubt as to the highly satisfactory working of the civil service law and rules; but there is provided a probationary period for testing the eligibility and competence of the candidate, and this

part of the system rightly presupposes that such a test is of as much value in making a final appointment as the examination. It is found to be so in practice, and still more must this be so of years of tests. If now promotions are not to be in the untrammelled discretion of the Commissioner from the records of work of the officers of the Bureau and from personal observation of their fitness, capacity, industry, willingness, and study, but is to be determined by a few hours of examination conducted here, the result of which is to be transmitted to the Civil Service Commission and by them certified back here as occasion may call for promotions, the administrative head of this Bureau will be the Civil Service Commission. I incline strongly to the opinion that promotions within the Office and the relative merits of the members of the force can best be determined here, determined far better and more justly than any examination can determine the question.

Some of these considerations are based upon the special character of the work of the Patent Office. Even the strictly clerical work so intimately concerns questions of science on the one side and of law on the other and also concerns questions of practice under the necessarily technical rules of procedure of the Patent Office that a general examination which would be likely to bring to the head of the list those most competent for the various forms of special work would be difficult to frame. To the good administration of the Office and to the development of the civil service system the discretion of the head of the Office is, in my judgment, a necessary element.

Examinations conducted by the Office for its own information, even concerning work of such varied character as I have briefly indicated, are proper and valuable, but to enlarge examinations to determine the whole field of choice and exclude discretion would impose upon the Office a weak and nerveless administration which in the end would not sustain itself either in the result or in the estimation of intelligent critics.

I have a further objection to promotions by general committees, extending through all bureaus in a department so segregated as is this, and have no disposition to take part in promotions in other bureaus about which I can have no comprehensive knowledge, and on the same ground have no desire for the assistance of members of a board from other bureaus to attempt and to suggest promotions in this Bureau. I have little hesitation in recommending, if a recommendation under this head may be permitted, that promotions in the Patent Office may be left, as now, substantially in the discretion of the Commissioner, enlightened but not controlled by such examinations within the various classes as he may see fit to conduct and guided by such principles as his superiors may see fit to lay down by executive order.

PRICES OF PRINTED COPIES OF PATENTS.

Under the act of May 19, 1896, section 493 of the Revised Statutes of the United States was amended,

fixing the price of uncertified printed copies of specifications and drawings so that the maximum cost of a copy shall be ten cents. On May 25, 1896, the Commissioner fixed the following schedule of prices, to go into effect July 1, 1896:

For single copies or any number of unclassified copies.....	.05
For copies by subclasses.....	.03
For copies by classes.....	.02
For the entire set of patents issued.....	.01

Under this statute, taken in connection with section 4903 of the Revised Statutes, I think that the Commissioner may properly accompany the reasons for the rejection of an application with copies of the United States patents relied on as references by the Examiner and transmit them without charge to the applicant. Section 4903 is as follows:

Sec. 4903. Whenever, on examination, any claim for a patent is rejected, the Commissioner shall notify the applicant thereof, giving him briefly the reasons for such rejection, together with such information and references as may be useful in judging of the propriety of renewing his application or of altering his specification; and if, after receiving such notice, the applicant persists in his claim for a patent, with or without altering his specifications, the Commissioner shall order a reëxamination of the case.

But an administrative difficulty is met in the fact that the Office would be required under that procedure to select and transmit more copies of patents than now, and for this work, largely increased under the reduction in prices, the force is now quite inadequate. Class orders for copies have within the last few months increased to such proportions that with its best endeavors the Office is now about five weeks in arrears. It is therefore necessary to defer such a practice to such time as the Office can be supplied with a further force. During the year 1896 printed copies of patents were disposed of as follows: Sold, 775,192; used by the Office, 362,874; furnished other Departments, 17,128; sent to foreign governments, 504,453; total, 1,659,647. Increase since reduction in price shown here: From January to July, 334,931 copies were sold; from July to January 1, 1897, 440,261, an increase of 105,330 since the price was reduced.

THE GROWTH OF THE SYSTEM AND ITS ATTENDANT NEEDS.

By reference to the tables it will be seen that the number of applications of all kinds for patents and for the registration of trade-marks was last year nearly three thousand in excess of the largest previous year in the history of the Patent Office. Accompanying this increase in the work of the examining divisions is a somewhat larger increase of work in the clerical divisions, and there has been no increase in the force of the Patent Office since 1891, when 15 were added, and no substantial increase since 1885, when 58 were added. It is not thought best to press for increases of expenditure in every branch of this Bureau, and yet it may be well to look forward to that equipment for the Patent Office which I am sure will be provided whenever the subject receives that full consideration which its place in the Government and its contribution to the industrial growth of the country and to its wealth are fully appreciated. The work has outgrown the force now provided to accomplish it. Not only the applications are more

in number, but the search in each case covers a continually-expanding field, and, again, the number of claims in each case and their fine distinctions render the examination more exacting and discriminating. It would not be an overliberal increase in the force for the work of examination alone should 10 Primary Examiners and 50 Assistant Examiners be presently provided to be employed wholly upon the regular examination work.

I therefore recommend that the Patent Office be provided with additional force in the examining corps, as follows: 10 Primary Examiners, 10 First Assistant Examiners, 10 Second Assistant Examiners, 15 Third Assistant Examiners, 15 Fourth Assistant Examiners.

The necessary clerical, messenger, and laboring force to accompany these new divisions is estimated to be: 10 clerks at \$1,200, 10 copyists at \$900, 10 messengers at \$720, 10 laborers at \$480, and I recommend that these be provided.

CLASSIFICATION DIVISION.

I have from time to time recommended a classification division rather than ask for any increase in the force for mere examination, and I think that this requirement must ultimately be granted, but it is not by any means the sufficient response to the needs of the Office. Since I first called the attention of Congress to this subject there have been important increases in the total number of patents issued by this and the foreign governments, and the field of search to ascertain the patentability of an invention now extends to 574,368 United States patents and to over 1,058,000 foreign patents. Accordingly, I again submit that the following force should be provided in order to establish a classification division in the Patent Office.

1 Chief of Classification Division.....	\$2,750
2 First Assistant Examiners (each).....	1,800
2 Second Assistant Examiners (each).....	1,600
3 Third Assistant Examiners (each).....	1,400
36 Fourth Assistant Examiners (each).....	1,200
2 Clerks (each).....	1,200
2 Permanent Clerks (each).....	1,000
2 Copyists (each).....	900
2 Assistant Messengers (each).....	720

Total..... \$64,500

As I have heretofore said to the Congress, I regard even the somewhat large expenditure of \$64,500 a year for the estimated period of five years required for the completion of this work as a most just and proper expenditure, literally exacted by the development of the system, as a necessary addition to the equipment of the Office, and a just appropriation of a part of the accumulated fees received from inventors, which in 1896 amounted to \$210,646.12 over and above the annual expenditures of the Office in the administration of the system.

ROOM.

The long-recognized need for more room for the Patent Office has been repeatedly stated, and various plans for effecting it have been considered. This entire building is not excessive for the present needs of the Patent Office.

Respectfully submitted,

JOHN S. SEYMOUR,

Commissioner of Patents.

ALPHABETICAL LIST

OF

PATENTEEES FOR THE YEAR 1896.

[Patentees of Designs, Trade-Marks, Labels, and Prints, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Specification.	Drawing.	Volume.	Page.
A. B. Dick Company. (See Ballou, George F., assignor.)						
A. B. Dick Company. (See Dick, Albert B., assignor.)						
A. Booth Packing Company. (See Atwood, John W., assignor.)						
A. C. Barler Manufacturing Company. (See Barler, Richard O., assignor.)						
A. F. Towle & Son Company. (See Severance, Elmer D., assignor.)						
A. G. Spalding & Bros. (See Nisbet, Alexander, assignor.)						
A. I. Root Company. (See Weed, Edward B., assignor.)						
A. R. Milner Seating Company. (See Milner, Albert R., assignor.)						
A. W. Stevens & Son. (See Stevens and Swart, assignors.)						
A. W. Stevens & Son. (See Swart, Lester D., assignor.)						
A. W. Stevens & Son. (See Swart and Avery, assignors.)						
Aabel, George, San Francisco, Cal. Car-coupling	573,253	Dec. 15	2049	491	77	1706
Abbenzeller, Alfred D., and H. S. Faunce, Randolph, Mass. Journal and journal-box for railway-trucks	567,673	Sept. 15	1640	396	76	1614
Abbot, Howard S. (See Utter, James W., assignor.)						
Abbott, Adrian O., Hudson, Mich. Voting-machine	560,015	May 12	1219	272 } 273 }	75	926
Abbott, Adrian O., Hudson, Mich. Ballot-printing voting-machine	567,572	Sept. 15	1471	352	76	1581
Abbott, Everett L. (See Perkins, Charles N., assignor.)						
Abbott, George F., New Haven, Conn. Puzzle	563,003	June 30	3425	824	75	2098
Abbott, Hamer U. (See Cook and Abbott.)						
Abbott, John N., assignor to Railway Triplex Ticket Company, New York, N. Y. Auto-graphic register	567,778	Sept. 15	1813	435	76	1647
Abbott, Leonard G., Syracuse, N. Y. Hose-supporter	558,751	Apr. 21	2174	523	75	442
Abbott, Leonard G., Syracuse, N. Y. Hose-supporter	565,251	Aug. 4	524	137	76	722
Abbott, Leonard G., and J. P. Moody, Syracuse, N. Y. Locking device for swinging-sash windows	552,950	Jan. 14	865	210	74	176
Abbott, William W., New Haven, Conn. Match-machine	573,802	Dec. 22	3068	727 } 728 } 729 } 730 }	77	1914
Abel, John D., Philadelphia, Pa. Camp-stool	560,669	May 26	2461	564	75	1218
Abell, Harry H., Port Ewen, N. Y. Shoestring-fastener	561,550	June 9	875	211	75	1561
Abell, John, Toronto, Canada. Variable-cut-off engine	560,182	May 19	1543	349	75	1039
Abell, William P., Essequibo, British Guiana. Centrifugal machine	571,912	Nov. 24	2645	626	77	1191
Abercrombie, William R., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Buttonhole-sewing machine	565,951	Aug. 18	1844	448 } 449 }	76	999
Abernethy, Harry M., assignor of one-half to H. H. Fulton, Beaver Falls, Pa. Railway semaphore-signal	561,551	June 9	877	211	75	1561
Abernethy, Harry M., assignor of one-half to H. H. Fulton, Beaver Falls, Pa. Automatic semaphore-signal for railways	561,931	June 9	1540	373	75	1686
Abraham, John D., et al. (See Macklin, Athol B., assignor.)						
Abraham, Otto, Platkow, Germany. Steam-engine	568,555	Sept. 29	3205	772	76	1933
Abrahams, Alfred. (See Thornewell, Charles, assignor.)						
Abrahams, John W., Allegheny, Pa. Thread-protector for tubing	556,127	Mar. 10	1144	269	74	1361
Abrahams, John W., Allegheny, assignor of one-half to H. A. Marlin, Pittsburg, Pa. Bending-machine	570,655	Nov. 3	448 } 105 } 106 }	77	722	
Abrahams, Meyer, et al. (See Lotze, Ernst J., assignor.)						
Abrahamson, Axel F., Madrid, Spain. Pump	553,381	Jan. 21	1620	386	74	331
Abrams, William B., Tekonsha, Mich. Mail and parcel holder	568,469	Sept. 29	3034	728	76	1904
Acers, Arthur D., assignor to M. A. Acers, Norman, Okla. Ter. Cabinet	563,215	June 30	3802	911	75	2169
Acers, Margaret A. (See Acers, Arthur D., assignor.)						
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Waldhof, near Mannheim, Germany. Obtaining vanillin	561,077	June 2	1	.....	75	1367
Achenbach, Herman C. (See Kregel, Louis G., assignor.)						
Acheson, Edward G., Monongahela City, Pa. Electrical furnace	560,291	May 19	1744	397	75	1074
Acheson, Edward G., Monongahela City, Pa. Manufacture of graphite	568,323	Sept. 29	2789	671	76	1859
Acheson, Edward G., Monongahela City, Pa. Composition of matter for abrading articles	572,852	Dec. 8	1339	.....	77	1553
Acheson, William, Pittsburg, Pa. Washing-machine	570,360	Oct. 27	2933	697	77	592
Ackerman, Ernest, Chicago, Ill. Penholder	567,953	Sept. 22	2115	510	76	1719
Ackerman, Jasper L., Monon, Ind. Measuring device	553,820	Feb. 4	1	1	74	505
Ackerman, William, and A. A. Hasselquist, Elgin, Ill. Wheeled scraper	568,595	Sept. 29	3289	789 } 790 }	76	1949
Ackermann, Kibbie R., Rochester, Minn. Culinary utensil	568,151	Sept. 22	2502	602	76	1789
Ackers, Thomas B., Chicago, Ill. Match-pouch	571,737	Nov. 24	2321	555	77	1131
Ackerson, Charles, Paterson, N. J. Fishing device	554,764	Feb. 18	1706	400	74	856

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
Ackley, Wilbur C., Adrian, Mich. Window-screen.....	573,803	Dec. 22	3074	730	77	1915
Acme Company. (See Hofmann, John, assignor.)						
Acme Electric Lamp Company. (See Jackson, Louis A., assignor.)						
Acme Machinery Company. (See Bruch, Frederick W., assignor.)						
Acme Package Company. (See Brown, Henry J. S., assignor.)						
Acme Shear Company. (See Wheeler, David C., assignor.)						
Actien-Gesellschaft für Anilin Fabrikation. (See Herzberg and Heimann, assignors.)						
Actien-Gesellschaft für Fein Mechanik, vormals Jetter & Scheerer. (See Scheerer, Wilhelm, assignor.)						
Actien-Gesellschaft für Glas Industrie, vormals Friedr. Siemens. (See Herrmann, Carl M., assignor.)						
Actien-Gesellschaft, vormals C. H. Stobwasser & Co. (See Zerning, Herrmann, assignor.)						
Adair, Alexander, Jr., Philadelphia, Pa. Frame for supporting car-fenders	572,394	Dec. 1	562	133	77	1385
Adair, Andrew B., Evanston, Ill. Letter for linotype-bars	565,252	Aug. 4	585	138	76	723
Adair, George L. (See Weale and Adair.)						
Adams, Adelbert A., Cambridge, Mass. Moistening-cabinet	557,043	Mar. 24	2783	662	74	1700
Adams, Albert L., Cedar Rapids, Iowa. Rope-fastener	568,827	Oct. 6	192	46	77	39
Adams, Andrew E., W. A. Sheffield, and J. Hallam, Leicester, England. Apparatus for producing ornamental circular-knitted fabrics.....	557,631	Apr. 7	185	47	75	36
Adams, Arthur L. (See Hill and Adams.)						
Adams, Arthur L., Astoria, Oreg. Automatic gate-governor.....	558,919	Apr. 28	2475	602	75	515
Adams-Bagnall Electric Company. (See Adams, Thomas E., assignor.)						
Adams-Bagnall Electric Company. (See Bagnall, Ernest J., assignor.)						
Adams-Bagnall Electric Company. (See Bagnall and Arnold, assignors.)						
Adams, Benjamin, Charleston, S. C. Bale-tie	562,692	June 23	2834	688	75	1962
Adams, Charles F. and H. F., Reading, Pa. Machine for cutting ribbed fabrics.....	572,094	Dec. 1	1	1	77	1279
Adams, Charles H., assignor to American Brass Novelty Company, Grand Haven, Mich. Portable dust-deflector for car-windows	562,111	June 16	1867	453	75	1765
Adams Company. (See Farwell, Fay O., assignor.)						
Adams, Cyrus L., Orange, assignor of one-half to J. L. Ballard, Los Angeles, Cal. Combination card-case with cards and memorandum attachment.....	569,000	Oct. 6	497	112	77	95
Adams, Daniel, Philadelphia, Pa. Wood-turning lathe	569,946	Oct. 20	2162	512 513	77	435
Adams, Elmer E. (See Phinney and Adams.)						
Adams, Fred L. (See Smith, Walton D., assignor.)						
Adams, Frederick L., Prophetstown, Ill. Checkrein attachment	553,501	Jan. 28	1819	432	74	385
Adams, George B., Irvington, N. J., assignor to Whitehead & Hoag Company, of New Jersey. Jewelry	558,334	Apr. 14	1448	356	75	291
Adams, George B., Irvington, N. J., assignor to Whitehead & Hoag Company, of New Jersey. Badge pin or button	564,356	July 21	1966	462	76	393
Adams, George B., Irvington, N. J., assignor to Whitehead & Hoag Company, of New Jersey. Stamp or coin case	572,237	Dec. 1	252	60	77	1326
Adams, George B., Newark, N. J., assignor to Whitehead & Hoag Company, of New Jersey. Key-ring or the like	570,442	Nov. 3	1	1	77	639
Adams, George E., New Britain, Conn. Fastener for gloves	558,500	Apr. 21	1882	456	75	388
Adams, George E., New Britain, Conn. Cast-off for garment-supporters	563,540	July 7	515	119	76	97
Adams, George E., New Britain, Conn. Fastener for gloves	566,731	Sept. 1	1	1	76	1281
Adams, George E., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Clasp	560,670	May 26	2462	564	75	1218
Adams, George H. H. (See Rowlands, John R., assignor.)						
Adams, Harry T., Brooklyn, N. Y. Bicycle-lock	558,467	Apr. 21	1699	411	75	355
Adams, Henry C., et al. (See Ayer, Albert E., assignor.)						
Adams, Henry F. (See Adams, Charles F. and H. F.)						
Adams, Henry W., Jr., Elgin, assignor to F. W. Morgan and R. Wright, Chicago, Ill. Valve device for pneumatic tires	560,183	May 19	1545	349	75	1039
Adams, James F., Killingly, assignor to C. D. & C. S. Chase, Danielson, Conn. Steering mechanism	571,964	Nov. 24	2749	645	77	1209
Adams, Joel U., Cincinnati, Ohio. Truss	568,324	Sept. 29	2791	671	76	1859
Adams, John A., assignor of two-thirds to G. A. Simard and A. Mignault, North Adams, Mass. Shoe-upper	562,347	June 16	2263	549	75	1840
Adams, John F., Worcester, Mass. Chin-rest for dental operating-chairs.....	571,209	Nov. 10	1407	329	77	928
Adams, John M., et al. (See Churchill, Henry P., assignor.)						
Adams, John Q. (See Idler, Charles A., assignor.)						
Adams, John Q., Marseilles, Ill. Feed-cutter	565,417	Aug. 11	845	199	76	793
Adams, Lawson, assignor of one-half to A. Reith, Buffalo, N. Y. Combined lightning and water conductor	573,750	Dec. 22	2992	709	77	1899
Adams, Lindsley, assignor of one-third to H. C. Hatch, Atlanta, N. Y. Support for frying-pans	561,251	June 2	295	74	75	1425
Adams, P. K. (See Bohon, Joseph A., assignor.)						
Adams, Peter H., Osorno, Chile. Music-leaf turner	553,746	Jan. 28	2251	533	74	464
Adams, Richard L., assignor of one-half to G. L. Peck, Richmond, Ind. Roller rail-tongs.....	558,752	Apr. 21	2175	523	75	442
Adams, Samuel. (See Taylor, Cochran, and Adams.)						
Adams, Samuel F., Brooklyn, N. Y. Metallic railway-tie	567,632	Sept. 15	1572	378	76	1600
Adams, Samuel H., London, England. Apparatus for raising sewage	556,039	Mar. 10	976	234	74	1330
Adams, Stephen J., Pittsburg, Pa. Method of and apparatus for forming cores	569,926	Oct. 27	2225	528	77	459
Adams, Stephen J., Pittsburg, Pa. Method of and apparatus for forming sand molds	574,052	Dec. 29	3546	846 847	77	2016
Adams, T. F. (See Dupes, George, assignor.)						
Adams, Thomas E., Cleveland, Ohio. Electric locomotive	556,654	Mar. 17	2106	492	74	1555
Adams, Thomas E., assignor to Adams-Bagnall Electric Company, Cleveland, Ohio. Electric-arc lamp	555,841	Mar. 3	588	141	74	1237
Adams, Thomas E., assignor to Adams-Bagnall Electric Company, Cleveland, Ohio. Electric-arc lamp	555,891	Mar. 3	689	166 167	74	1258
Adams, Thomas E., assignor to Adams-Bagnall Electric Company, Cleveland, Ohio. Electric-arc lamp	560,671	May 26	2462	564 565	75	1218
Adams, Thomas E., assignor to Brush Electric Company, Cleveland, Ohio. Combined globe-holder and ash-pan	568,223	Sept. 22	2622	630	76	1811
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Car-truck	566,118	Aug. 18	2136	520	76	1054
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Car-truck	568,079	Sept. 22	2367	572	76	1762
Adams & Westlake Company. (See Emery, Plato G., assignor.)						
Adams & Westlake Company. (See Hamm, William S., assignor.)						
Adams & Westlake Company. (See Mosher, John A., assignor.)						
Adams & Westlake Company. (See Teal and Hamm, assignors.)						
Adams, William A., Elizabeth, N. J. Car-replacing frog	573,380	Dec. 15	2287	545	77	1748

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. &c.	Vol.	Page
Adams, William G., Philadelphia, Pa. Puzzle.....	554,565	Feb. 11	1343	314	74	771
Adamson, Joseph, Pawtucket, R. I. Loom-reed.....	571,182	Nov. 10	1365	318	77	920
Adcock, Arthur H. (See Johnson and Adcock.)						
Addington, Alvin W., Clarks, Ind. Fodder-harvester.....	558,627	Apr. 21	1957	{ 474 475 }	{ 75 75 }	402
Addington, William B., <i>et al.</i> (See Reily, John P., assignor.)						
Addinsell, George H., Liverpool, England. Shirt.....	561,851	June 9	1418	341	75	1662
Addison, John A. (See Coffran and Murray, assignors.)						
Addison, John F., Detroit, Mich. Machine for mixing and distributing lard, fats, oils, or other liquids.....	555,551	Mar. 3	117	26, 27	74	1151
Addressograph Company. (See Duncan, Joseph S., assignor.)						
Adell, Henry D., Columbus, Ohio. Elevator-shaft-closing mechanism.....	555,670	Mar. 3	327	75	74	1186
Ad-r, Clement, assignor to La Société Industrielle des Téléphones, Paris, France. Photographic telegraph-recorder.....	565,657	Aug. 11	1305	315	76	878
Adgate, Joseph J., Liberty, N. Y. Wagon-jack.....	570,078	Nov. 10	1184	{ 277 278 }	{ 77 77 }	887
Adkins, Stephen J., Covington, assignor to R. N. Hill, Grand View, Tex. Seed-planter attachment.....	555,335	Apr. 14	1450	{ 356 357 }	{ 75 75 }	292
Adler, George W., Philadelphia, Pa. Tawing hides.....	573,631	Dec. 22	2757		77	1862
Adler, Henry, trustee. (See Kampf, Joseph, assignor.)						
Adler, Henry, Allegheny, Pa. Burner for burning gaseous fuel.....	560,458	May 19	2050	467	75	1127
Adler, John J., Ajmeer, India. Bogie-truck for rolling-stock.....	566,119	Aug. 18	2138	{ 520 521 }	{ 76 76 }	1055
Adler, Marcus A., New York, N. Y. Exhibiting samples of garments.....	569,531	Oct. 13	1397	330	77	279
Adler, Marcus A., New York, N. Y. Tailor's table.....	569,947	Oct. 20	2164	513	77	435
Adolph, Johann A. H., Birchip, Victoria. Washing-machine.....	555,842	Mar. 3	589	141	74	1237
Adrian, Isaac N., Carpentersville, Ill. File.....	556,296	Mar. 10	1485	345	74	1424
Adriance, John S., New York, N. Y. Decolorizing tannin extract.....	571,635	Nov. 17	2132		77	1076
Adrianse, Lyne, (Grand Rapids, Mich. Clamp.....	561,151	June 2	137	36	75	1392
Adt, John B. (See Guethler, Maximilian, assignor.)						
Æolian Company. (See Chase, Joseph H., assignor.)						
Æolian Company. (See Tremaine, Harry B., assignor.)						
Aerial Bicycle Company. (See Neckerson, Hiram B., assignor.)						
Ætna Electric Company. (See Green, Henry, assignor.)						
Agatine Shoe-Hook and Eyelet Company. (See Smidt, William H., assignor.)						
Agelasto, Michael A., Norfolk, Va. Electric thermometer.....	571,426	Nov. 17	1765	421	77	1009
Agerell, Charles W., and A. A. Williams, Duluth, Minn. Gas-engine.....	555,355	Feb. 25	2763	{ 647 648 }	{ 74 74 }	1669
Agesen, John H., Higganum, Conn. Attachment for drill-grinding machines.....	572,944	Dec. 15	1509	361	77	1603
Aglar, Francis B., assignor to Interchangeable Brake Beam Company, St. Louis, Mo. Brake-beam.....	557,934	Apr. 7	719	173	75	136
Agnew, Benjamin S. (See Crosby, James H., assignor.)						
Agnew, Frank, Newark, Ohio. Chime-wheel.....	561,641	June 9	1034	249	75	1590
Agüero, Antonio A., New York, N. Y. Panoramic exhibiting-cabinet.....	554,638	Feb. 11	1490	349	74	798
Agüero, Antonio A., New York, N. Y. Curtain-fixture.....	555,031	Feb. 18	2175	518	74	942
Agüero, Mary C. F., New York, N. Y. Fish-scaler.....	554,637	Feb. 11	1459	349	74	797
Ahearn, William F., assignor of one-half to P. Gagnon, Two Rivers, Wis. Net-lifting machine.....	571,033	Nov. 10	1104	253	77	872
Ahern, Florence L., assignor to Spalding-Bidwell Company, New York, N. Y. Bicycle-skirt.....	566,269	Aug. 25	2567	627	76	1153
Ahlm, Charles E. F., assignor to E. & C. Electric Company, Cleveland, Ohio. Electric generator or motor.....	566,120	Aug. 18	2140	521	76	1055
Ahlstrand, Hugo, Everett, Mass. Bridge for stringed instruments.....	566,835	Sept. 1	164	38	76	1313
Ahlstrom, Charles A., Jamestown, N. Y. Upright-piano action.....	560,672	May 26	2465	565	75	1219
Ahrens, Christopher, and C. H. Fox, Cincinnati, Ohio. Automatic relief-valve.....	559,881	May 12	979	218	75	881
Ahrens, George C., Gillespie, Ill. Mill.....	556,607	Mar. 17	2039	477	74	1542
Ahrens, John P. (See Woehle, William, assignor.)						
Ahrens, John T., Wilmington, Del. Game or puzzle.....	553,326	Jan. 21	1526	365	74	313
Ahrens, John T., assignor of one-half to J. N. and R. C. Harman, Wilmington, Del. Finger-rest for penholders.....	564,178	July 21	1675	392	76	341
Aichele, Henry J., Philadelphia, Pa. Lathe-dog.....	555,751	Mar. 3	449	107	74	1210
Aichner, John, Chicago, Ill. Adjustable car-step.....	557,632	Apr. 7	187	48	75	36
Aicklen, William J., New Orleans, La. Folding crate.....	573,804	Dec. 22	3075	731	77	1915
Aigler, Noah W., Beavertown, Pa. Car-coupling.....	572,395	Dec. 1	564	133	77	1385
Aiken, Henry, Pittsburg, Pa. Tongs-operating apparatus.....	564,041	July 14	1410	{ 327 328 }	{ 76 76 }	277
Aiken, Henry, Pittsburg, Pa. Mechanism for operating ladles.....	564,770	July 28	2682	637	76	541
Aiken, Henry, Pittsburg, Pa. Tipping metallurgical vessels.....	569,967	Oct. 27	2228	{ 528 529 }	{ 77 77 }	459
Aiken, Henry, Pittsburg, Pa. Hoisting apparatus.....	574,127	Dec. 29	3683	{ 877 878 }	{ 77 77 }	2040
Aiken, Henry, Pittsburg, Pa., F. W. Wood, Baltimore, Md., and H. H. Campbell, Steelton, Pa. Open-hearth furnace. (Reissue.).....	11,572	Oct. 13	1534	{ 359 360 }	{ 77 77 }	305
Ainsworth, Edwin, Wilmington, Del., assignor to H. W. Butterworth & Sons Company, of Pennsylvania. Tenting-machine.....	569,734	Oct. 20	1795	426	77	368
Air Conveyor Company. (See Dodge, James M., assignor.)						
Air Conveyor Company. (See Dodge, James M., assignor.) (Reissue.)						
Aitchison, James, London, England. Apparatus for attaching optical instruments to heads.	553,146	Jan. 14	1193	290	74	239
Aiton, John W., assignor of two-thirds to J. Willhour and T. A. Russell, Kingman, Kans. Lift-pump.....	554,164	Feb. 4	670	151	74	628
Ajello, Vincent, assignor of one-third to F. Mainella, New York, N. Y. Billiard-cue.....	573,845	Dec. 29	3153	752	77	1945
Akeley, Carl E., Milwaukee, Wis. Horse-collar.....	556,953	Mar. 24	2615	{ 614 615 }	{ 74 74 }	1668
Akeley, Carl E., and C. G. Junkermann, Milwaukee, Wis. Head-rest.....	556,952	Mar. 24	2613	614	74	1667
Akerman, John W., Newburyport, Mass. Delivery-wagon.....	571,324	Nov. 17	1607	382	77	981
Akers, John H., Washington, D. C. Hook and eye.....	563,637	July 7	673	158	76	126
Akers, John M., Cleveland, Ohio. Bicycle-lock.....	565,658	Aug. 11	1307	316	76	878
Aktiebolaget Per Perssons Vaf-Och Stickmaskin. (See Persson, Per, assignor.)						
Aktiebolaget Radiator. (See Salenius, Erik G. N., assignor.)						
Aktiebolaget Separator. (See Jönsson, Johan L., assignor.)						
Alabama Blasting and Mining Company. (See Elliott, Robert H., assignor.)						
Alabama Car and Equipment Company. (See Davis, James, assignor.)						
Albee, George H., Windsor, Conn. Household reminder.....	573,319	Dec. 15	2188	523	77	1730

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Albee, John G., Fulton, N. Y. Rotary engine	566,959	Sept. 1	380	89	76	1354
Alberger, Louis R., New York, N. Y., assignor to H. R. Worthington, Elizabeth, N. J. Apparatus for cooling or evaporating liquids	556,040	Mar. 10	977	234	74	1330
Alberger, Louis R., New York, N. Y., assignor to H. R. Worthington, Elizabeth, N. J. Condenser system	585,586	Aug. 11	1178	284	76	854
Albers, William, Pittsburg, Pa. Envelop	573,123	Dec. 15	1819	439	77	1664
Albert, David W., Goblesville, Ind. Tension device for wire fences	560,562	May 19	2213	506	75	1156
Albert, Heinrich, assignor to Chemische Werke, vormals H. & E. Albert, Biebrich, Germany. Manufacturing phosphates of alkalies	572,512	Dec. 8	745	178	77	1435
Albert, Jonathan Z. (See Manegold, Frederick A., assignor.)						
Albert McCartney Company. (See McCartney, Albert, assignor.)						
Albertus, Otto, and M. Johnson, Alford, Iowa. Band-cutter and feeder	556,326	Mar. 17	1539	359	74	1449
Albin, Frank, Dodge City, Kans. Safety-check for boilers	562,267	June 16	2115	513	75	1812
Albrecht, Christian A., New York, N. Y., assignor to Mergenthaler Linotype Company, of New Jersey. Linotype-machine	560,459	May 19	2052	467	75	1127
Albrecht, George, Philadelphia, Pa. Corn-holder	557,935	Apr. 7	732	174	75	136
Albrecht, Herman S., St. Louis, Mo. Pulverizing and mixing machine	571,588	Nov. 17	2049	488	77	1060
Albree, Chester B., Allegheny, Pa. Riveting and pressing machine	558,140	Apr. 14	1122	274	75	230
Albree, Chester B., Allegheny, Pa. Pneumatic tool	572,324	Dec. 1	424	100	77	1360
Albright, Daniel W., Cedar Rapids, Iowa. Bicycle-support	564,134	July 14	1583	371	76	312
Albright, Frank S., Chadron, Nebr. Calf-weaner	556,236	Mar. 10	1341	315	74	1396
Albright, Harry W., assignor of one-half to J. C. Spyker, York, Pa. Weather-strip	573,193	Dec. 15	1949	469	77	1687
Alden, Andrew D., Brockport, Pa. Car-coupling	569,481	Oct. 13	1301	306	77	262
Alden, George I. (See Higgins and Alden.)				307		
Alden, George I., and M. P. Higgins, Worcester, Mass. Mounting emery or other abrasive wheels	566,883	Sept. 1	247	57	76	1330
Alden Type Machine Company. (See Johnson and Low, assignors.)						
Alder & Mackay. (See Anderson, John, assignor.)						
Alderman, Eva C. (See Wilcox and Alderman.)						
Alderman, Frank, Fort Wayne, Ind. Washing-machine	566,370	Aug. 25	2568	627	76	1153
Alderson, George, La Salle, assignor to C. Brunner, Peru, Ill. Explosive-engine	560,016	May 12	1222	273	75	927
Alderson, George, La Salle, assignor to C. Brunner, Peru, Ill. Valve-actuating mechanism	573,194	Dec. 15	1950	469	77	1687
Aldis, Hugh L., London, England. Photographic lens	560,460	May 19	2052	468	75	1127
Aldrich, Charles F., et al. (See Garred, Ulys-es A., assignor.)						
Aldrich, Cyrus C., Morristown, Minn. Beehive	557,532	Apr. 7	1	1	75	3
Aldrich, George W., assignor to G. A. Ward, Brooklyn, N. Y. Meat-broiler	557,096	Mar. 31	2869	686	74	1741
Aldrich, Orlando W., et al. (See Shaw, William F., assignor.)						
Aldrich, Robert, Millville, and J. V. Chamberlin, Worcester, Mass. Wrench	564,816	July 28	2758	656	76	554
Aldrich, Roscoe H., Buffalo, N. Y., assignor to W. and T. L. Webster, Merchantville, N. J. Paper-drier	558,628	Apr. 21	1959	475	75	403
Aleith, Friedrich, assignor of one-half to J. M. Aleith, Casselton, N. D. Match-safe	567,369	Sept. 8	1141	274	76	1504
Aleith, J. M. (See Aleith, Friedrich, assignor.)						
Alexander, Arthur H., London, England. Mold for casting lines of type	562,751	June 23	2947	714	75	1985
Alexander, Charles P., Cleburne, Tex. Combined flour and meal bin and sifter	567,062	Sept. 1	575	134	76	1391
Alexander, David. (See Ford and Alexander.)				135		
Alexander, David W. (See Knees, Charles, assignor.)						
Alexander, Hans, Berlin, Germany, assignor to L. Potthoff, Long Island City, N. Y. Coating metals by electrolysis	563,723	July 14	829		76	171
Alexander, Horace C., Bonham, Tex. Telephone-transmitter	569,908	Oct. 20	2085	496	77	421
Alexander, James G., Fairfield, Iowa. Guiding device for vehicles	557,471	Mar. 31	3542	847	74	1864
Alexander, James S., Jacksonville, Fla. Fan attachment for swings	557,533	Apr. 7	3	1	75	3
Alexander, Moses, et al. (See Hand, Townsend, assignor.)						
Alexander, Robert E., Forest City, Pa. Car-replacer	572,669	Dec. 8	1018	246	77	1492
Alexander, Robert E. and U. D., Cannonsburg, Pa. Nozzle and seal	555,032	Feb. 18	2176	519	74	942
Alexander, Samuel. (See Weston, Allan C., assignor.)						
Alexander, Samuel, Meriden, Conn. Bottle	569,988	Oct. 27	2229	529	77	460
Alexander, Urbana D. (See Alexander, Robert E. and U. D.)						
Alexander, Theophilus W., Burlington, Iowa. Oil or gasoline can	566,723	Aug. 25	3166	775	76	1264
Alexander, Theophilus W., Burlington, Iowa. Soap slabbing and cutting machine	567,438	Sept. 8	1249	301	76	1525
Alexander, William W., Kansas City, Mo. Individual calling apparatus	563,352	July 7	205	302	76	42
Alexander, William W., assignor to Gill-Alexander Electric Manufacturing Company, Kansas City, Mo. Automatic electric railway-signal	557,749	Apr. 7	414	97	75	78
Alexander, William W., Kansas City, Mo., and M. C. Gillham, Kansas City, Kans. Mechanical telegraph-sounder	572,945	Dec. 15	1509	361	77	1603
Alfors, Andrew, Hauna, Wyo. Lock	554,566	Feb. 11	1344	314	74	771
Alfors, John, Hanna, Wyo. Lock	567,063	Sept. 1	577	135	76	1391
Algeo, William G., Jr. (See McCool and Algeo.)						
Alger, George A., Fitchburg, Mass. Raisin-seeder	557,321	Mar. 31	3287	789	74	1814
Alker, John H., Pittsburg, Pa. Bolt-heading apparatus	560,962	May 26	2976	683	75	1317
Allan, Frank W. (See Blood and Allan.)						
Allan, Thomas W., London, England. Electric storage battery	571,059	Nov. 10	1142	267	77	880
Allan, William, et al. (See Ballenger, Benjamin, assignor.)						
Allan, William, et al. (See Wertz, Frank E., assignor.)						
Allbee, Elmer E. (See Dixon and Allbee.)						
Allen, Albert W. (See Allen, Erasmus W. and A. W.)						
Allen, Charles D., Arkansas City, Kans. Sample-holder	568,012	Sept. 22	2226	538	76	1737
Allen, Charles E., Washington, D. C., assignor to Stenotype Company, Portland, Me. Escapement mechanism	562,561	June 23	2608	633	75	1919
Allen, Charles E., Washington, D. C., assignor to Stenotype Company, Portland, Me. Character-selecting device for type-writing or other machines	562,562	June 23	2612	634	75	1920
Allen, Charles E., Washington, D. C., assignor to Stenotype Company, Portland, Me. Linotype-machine	562,563	June 23	2617	635	75	1921
Allen, Charles E., Salem, Mass., assignor to Stenotype Company, Portland, Me. Bank of electromagnets	562,564	June 23	2632	636		
Allen, Charles H. (See Allen, James H. and C. H.)				637	75	1925
Allen, Charles H., and H. C. Maltby, Chicago, Ill. Halter	562,752	June 23	2948	714	75	1985

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Allen, Charles J. (See Tibbitts, Madison, and Allen.)						
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine trimmer	561,078	June 2	2	1	75	1367
Allen, Edward R., Corning, N. Y. Potato-digger	574,128	Dec. 29	3685	878	77	2040
Allen, Emily J., Milwaukee, Wis. Device for supporting flexible gas pipes or tubes	565,418	Aug. 11	846	199	76	793
Allen, Erasmus W. and A. W., Ottawa, Kans. Washing-machine	555,063	Feb. 25	2247	537	74	871
Allen, Eugene D. (See Kahn and Allen.)						
Allen, Frank B. (See Stahl and Allen.)						
Allen, Fred A., et al. (See Midgley, Alexander, assignor.)						
Allen, Fred E., assignor of five-eighths to M. B. Marsh and W. F. Weiblen, Erie, Pa. Suction-roll for paper-making machines	573,752	Dec. 22	2995	709	77	1900
Allen, George, Franklin, Pa. System for operating oil-wells	569,157	Oct. 13	761	177	77	161
Allen, George H. (See Cook, Moses G., assignor.)						
Allen, George L. and W. P., Worcester, Mass. Bleaching-keir	555,486	Mar. 3	1	1	74	1131
Allen, George O. (See Merriam, Lyman W., assignor.)						
Allen, Harry, London, England. Sheil-fuse	562,061	June 16	1773	429	75	1750
Allen, Henry A. (See Pratt and Allen.)						
Allen, Horace R., Indianapolis, Ind. Leg-brace	559,835	May 12	885	198	75	863
Allen, Horace R., Indianapolis, Ind. Disinfecting apparatus	569,596	Oct. 20	1537	361	77	321
Allen, Ira A., New York, N. Y. Railway-switch	564,909	July 28	2900	695	76	582
Allen, Isaac M., and J. M. Miller, Harrisburg, Ill. Vehicle running-gear	568,889	Oct. 6	299	68	77	57
Allen, James H. and C. H., Seneca, Ill. Rim-wrench or tire-bolter	552,977	Jan. 14	909	221	74	184
Allen, James L., Kansas City, Mo. Barrel	572,624	Dec. 8	942	229	77	1477
Allen, James M., assignor of one-half to A. J. Welcker, St. Louis, Mo. Rotary pump	572,082	Nov. 24	2959	696	77	1251
Allen, John, Paterson, N. J., assignor to Rettger, Allen Company, of New Jersey. Loom-shuttle	558,753	Apr. 21	2176	524	75	442
Allen, Jot S., assignor of two-thirds to J. A. Roark and F. L. Comer, Gainesville, Ga. Steamfruit-evaporator	554,639	Feb. 18	1493	350	74	815
Allen, Kirk, et al. (See Rodgers and Crowson, assignors.)						
Allen, Le Roy B., Norwalk, Ohio. Shaft-tug	568,080	Sept. 22	2369	573	76	1762
Allen, Leicester, Brooklyn, N. Y. Machine for bookkeeping and registering cash	570,620	Nov. 3	344	{ 85 86 87	{ 77	702
Allen, Luther E., Detroit, Mich. Registering-machine	573,381	Dec. 15	2288	{ 545 546	{ 77	1748
Allen, Samuel L., Moorestown, N. J. Cultivator	562,786	June 30	3011	727	75	2015
Allen, Samuel W., Port Chester, N. Y. Optical lantern	569,849	Oct. 20	1992	{ 475 476	{ 77	403
Allen, Stephen A. (See Moore, Louis L., assignor.)						
Allen, Walter E., McCracken, Kans. Window-cleaner	553,327	Jan. 21	1528	365	74	313
Allen, William A., Manhasset, N. Y. Harness	566,437	Aug. 25	2695	657	76	1178
Allen, William C. (See Davidson, Le Grand B., assignor.)						
Allen, William G. (See Capewell and Allen.)						
Allen, William P. (See Allen, George L. and W. P.)						
Allen, William P. (See Krotz and Allen.)						
Allen, William P., Chicago, Ill., assignor of two-thirds to O. S. Kelly and A. S. Krotz, Springfield, Ohio. Underground system for electric railways	554,102	Feb. 4	553	{ 123 124	{ 74	605
Allen, William P., Chicago, Ill., assignor of two-thirds to O. S. Kelly and A. S. Krotz, Springfield, Ohio. Electric conductor and contact device therefor	554,103	Feb. 4	556	124	74	606
Allen, William P., Chicago, Ill., and A. S. Krotz, assignors of one-third to O. S. Kelly, Springfield, Ohio. Underground system for electric railways	554,104	Feb. 4	559	125	74	607
Allen, William T., et al. (See Clark and Munger, assignors.)						
Allen, William T., Jr., assignor of one-half to M. Kober, Fort Smith, Ark. Grave-filler	554,356	Feb. 11	998	231	74	705
Allenbaugh, Francis M., Sr., and W. H., Jr., Greenpp, Ill. Insect-catcher	555,916	Mar. 10	733	178	74	1287
Allenbaugh, William H., Jr. (See Allenbaugh, Francis M., Sr., and W. H., Jr.)						
Allensworth, Elvin, Memphis, Mo. Fence-machine	563,117	June 30	3636	871	75	2138
Alley, Stephen, Glasgow, Scotland. Steam-boiler	561,469	June 2	728	179	75	1507
Algier, Andrew, Grand Rapids, Mich. Combined door hinge and check	557,936	Apr. 7	723	174	75	137
Allington & Curtis Manufacturing Company. (See Marshall, William R., assignor.)						
Allington, William E., East Saginaw, Mich. Dust-collector	570,443	Nov. 3	2	1	77	639
Allinson, Sarah J., Bloomington, Ill. Window-screen	560,563	May 19	2214	506	75	1156
Allison, Samuel B., New Orleans, La. Fiber-separating machine	561,532	June 2	846	204	75	1529
Allison, Samuel B., New Orleans, La. Fiber separating and cleaning machine	568,224	Sept. 22	2623	631	76	1812
Allison, Samuel B., New Orleans, La. Machine for cleaning fiber	568,225	Sept. 22	2626	631	76	1812
Allison, Samuel B., New Orleans, La. Fiber-separating machine	568,309	Sept. 22	2762	{ 664 665	{ 76	1839
Allman, Isaac F., Jersey City, N. J. Vapor-engine	556,237	Mar. 10	1342	{ 315 316	{ 74	1397
Allman, Isaac F., Jersey City, N. J. Vaporizer for oil-engines	563,541	July 7	516	119	76	98
Allman, Silas, Pasadena, and E. A. Ingham, Lamanda Park, Cal. Fruit-pitter	567,702	Sept. 15	1688	406	76	1623
Allshouse, Clarence E., Chicago, Ill. Binding implement	563,542	July 7	517	{ 119 120	{ 76	98
Alluisi, Charles, assignor of one-half to H. Constant, Montreal, Canada. Plaster compound	562,449	June 23	2429		75	1887
Allyn, Athean C., Boston, Mass. Flexible carrier for advertising or other apparatus	553,770	Jan. 28	2286	541	74	471
Allyn, Athean C., Boston, Mass. Panoramic display mechanism	557,179	Mar. 31	3014	{ 720 721	{ 74	1768
Allyn, Isaac W., Philadelphia, Pa. Device for attaching harness to vehicles	558,249	Apr. 14	1307	319	75	264
Allweiler, Gotthard, Radolfzell, Germany. Auxiliary exhaust apparatus for oscillating wing-pumps	564,959	Aug. 4	1	1	76	617
Almack, John W., Coshocton, Ohio. Egg-carrier	572,466	Dec. 1	665	157	77	1405
Almstead, John A., et al. (See Davis, Lawrence W., assignor.)						
Atmy, Darwin and F. D., Providence, R. I. Automatic feed-water regulator for steam-boilers	559,157	Apr. 28	2926	706	75	601
Almy, Frank D. (See Almy, Darwin and F. D.)						
Alpress, George T., assignor to Dunbar Brothers, Bristol, Conn. Antirattler for thill-couplings	561,152	June 2	138	37	75	1393
Alrich, Alario G., Lawrence, Kans. Page-stick	574,232	Dec. 29	3926	934	77	2083
Alsina, Fernando, Barcelona, Spain. Machine for cutting nap of fustians, &c	555,416	Feb. 25	2862	676	74	1089
Altenbaugh, Frank, Tiffin, Ohio, assignor to United States Glass Company, Pittsburg, Pa. Apparatus for blowing glass	557,298	Mar. 31	3248	779	74	1806
Altenecker, Ferdinand A., Philadelphia, Pa. Drawing-pen	568,556	Sept. 29	3206	772	76	1934
Alter, Benjamin F., Russiaville, Ind. Baling-press	563,543	July 7	520	120	76	98

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Altham, George J., Swansea, Mass. Oil-engine	564,576	July 21	2342	{ 550 551 552 }	76	461
Altham, George J., Swansea, Mass. Oil-engine	564,577	July 21	2347	{ 552 553 }	76	462
Altham, George J., Swansea, Mass. Power-transmitting mechanism	569,013	Oct. 6	514	117	77	98
Altick, William B., Lancaster, Pa. Car-fender	565,065	Aug. 4	175	41	76	649
Altimira, José, New York, N. Y. Detergent	572,853	Dec. 8	1339	.....	77	1553
Altman, Benjamin. (See Royce, Thomas H., assignor.)						
Altman, David L., Eau Claire, Wis. Self-oiling box	553,147	Jan. 14	1194	290	74	240
Altman, David L., Eau Claire, Wis. Self-oiling journal-bearing	570,782	Nov. 3	662	152	77	760
Altman, John N., Tampa, Fla. Vehicle-wheel	563,703	July 7	787	188	76	148
Altman, Samuel L. (See Hirsch, Charles, assignor.)						
Altmeier, Mathias, Wheeling, W. Va. Attachment for caskets	573,124	Dec. 15	1820	439	77	1664
Aluminum Musical Instrument Company. (See Merrill, Neil, assignor.)						
Alves, John, Melbourne, Victoria. Means for supplying hot air to boiler-furnaces	566,645	Aug. 25	3031	741	76	1242
Alvey, Henry W., Mooreland, Ind. Spacing device for wire fences	561,642	June 9	1035	249	75	1591
Alvord, Bert C. (See Schumann and Alvord.)						
Alvord, Clarence E., assignor to M. P. Getchell, Gunnison, Colo. Brush-grubber	564,135	July 14	1585	{ 371 372 }	76	312
Alwies, Herman, St. Louis, Mo. Electric street or station indicator	571,738	Nov. 24	2322	555	77	1131
Amberg File and Index Company. (See Amberg, Theodore J., assignor.)						
Amberg File and Index Company. (See Peacock, Elijah P., assignor.)						
Amberg, Theodore J., assignor to Amberg File and Index Company, Chicago, Ill. Holder for expandible indexes in paper-files	559,762	May 5	713	169	75	817
Ambler, Arthur A., assignor to Title and Improvement Company, Chicago, Ill. Machine for coiling angular springs	563,835	July 14	1026	243	76	208
Ambler, George A., Newark, N. J. Rounding or trimming machine	560,829	May 26	2730	627	75	1272
Amborn, George, Jr., assignor to J. H. Williams & Company, Brooklyn, N. Y. Chain wrench	570,213	Oct. 27	2631	624	77	527
Amborn, George, Jr., assignor to J. H. Williams & Company, Brooklyn, N. Y. Chain wrench	570,214	Oct. 27	2633	624	77	537
Amborn, Harrison H. (See Ludwick and Amborn.)						
Amrose, David, New York, N. Y. Car-fender	560,055	May 12	1297	291	75	941
Amba, Charles E., Matteson, Mich. Latch and lock combined	568,653	Sept. 29	3400	813	76	1971
Amende, Johann F. W., Malliss, assignor of one-half to F. Schwartz, Dömitz, Germany. Grinding-mill	561,252	June 2	296	74, 75	75	1425
American Alkali Company. (See Sadler and Wilson, assignors.)						
American Automatic Banjo Company. (See Gilman, Willard H., assignor.)						
American Bell Telephone Company. (See Barrett, John A., assignor.)						
American Bell Telephone Company. (See Davis, Joseph P., assignor.)						
American Bell Telephone Company. (See Farnham, Isaiah H., assignor.)						
American Bell Telephone Company. (See Field, Stephen D., assignor.)						
American Bell Telephone Company. (See Hennessey, William H., assignor.)						
American Bell Telephone Company. (See Khotinsky, Achilles de, assignor.)						
American Bell Telephone Company. (See O'Connell, Joseph J., assignor.)						
American Bell Telephone Company. (See Slade and Stone, assignors.)						
American Bell Telephone Company. (See Stone, John S., assignor.)						
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American Bell Telephone Company. (See Wales and Arnold, assignors.)						
American Bell Telephone Company. (See Wales and Spencer, assignors.)						
American Biscuit and Manufacturing Company. (See Lynn, Lewis L., assignor.)						
American Box Strap Company. (See Bowler, John A., assignor.)						
American Brake Beam Company. (See Sullivan and Burnap, assignors.)						
American Brass Novelty Company. (See Adams, Charles H., assignor.)						
American Buncher Manufacturing Company. (See Boyer, Charles T., assignor.)						
American Camera Manufacturing Company. (See Blair and Kelley, assignors.)						
American Card Clothing Company. (See Estes, Nathan C., assignor.)						
American Champion Plaster Company. (See Summers, James E., assignor.)						
American Electric Lead Company. (See Browne, Arthur B., assignor.)						
American Electric Lead Company. (See Browne and Chaplin, assignors.)						
American Electric Meter Company. (See Burger and McFall, assignors.)						
American Electric Meter Company. (See Green, George R., assignor.)						
American Electric Meter Company. (See Marks, William D., assignor.)						
American Electric Meter Company. (See Wirt, Charles, assignor.)						
American Electric Meter Company. (See Wirt, Green, and Burger, assignors.)						
American Electric Vehicle Company. (See Woods, Clinton E., assignor.)						
American Electrical Heater Company. (See Date, Heffron, Scranton, and Scudder, assignors.)						
American Electrical Heater Company. (See Snyder and Tinnerholm, assignors.)						
American Electrical Works. (See Sawyer, William H., assignor.)						
American Engine Company. (See Knudsen, Conrad, assignor.)						
American Engine Company. (See Spaulding, Elijah F., assignor.)						
American Fire Engine Company. (See Fox, Charles H., assignor.)						
American Graphophone Company. (See Macdonald, Thomas H., assignor.)						
American Harrow Company. (See Ovenshire, Elijah A., assignor.)						
American Incandescent Gas Company. (See Hennessey, Thomas, assignor.)						
American Incandescent Light Company. (See Böhm, Ludwig K., assignor.)						
American Lace and Fancy Paper Works. (See Kartl, Benzion, assignor.)						
American Laundry Machinery Company. (See Dolph, Slack, and Saunders, assignors.)						
American Lead Company. (See Browne and Chaplin, assignors.)						
American Line Grip Company. (See Fegan, James P., assignor.)						
American Lithographic Company. (See Frauenfelder, Paul G., assignor.)						
American Lithographic Company of New York. (See Spiegle, Fred M., assignor.)						
American Metallic Cushion Company. (See Cowley, James T., assignor.)						
American Metallic Cushion Company. (See Vogler, William, assignor.)						
American Metallic Packing Company. (See Clark, Louie H., assignor.)						
American Mining Machine Company. (See Myers, George F., assignor.)						
American Music Box Company. (See Bernard, Frank J., assignor.)						
American Optical Company. (See De Celles, Joseph H. E., assignor.)						
American Optical Company. (See Wells, George W., assignor.)						
American Postal Machines Company. (See Barnard, George E., assignor.)						
American Postal Machines Company. (See Hansen, John S., assignor.)						

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American Ring Company. (See Lane, Spencer B., assignor.)						
American Roll Paper Company. (See Tivy and Hill, assignors.)						
American Screw Company. (See Rogers, Charles D., assignor.)						
American Ship Windlass Company. (See Grater, Frank B., assignor.)						
American Ship Windlass Company. (See Manton, Frank S., assignor.)						
American Ship Windlass Company. (See Potter, Charles A., assignor.)						
American Ship Windlass Company. (See Smith, Henry L., assignor.)						
American Ship Windlass Company. (See Whitney, Edwin H., assignor.)						
American Signal and Power Company. (See Hunter and Higgins, assignors.)						
American Soda Fountain Company. (See Cuppers, William A., Jr., assignor.)						
American Soda Fountain Company. (See Kelsey and Dunham, assignors.)						
American Soda Fountain Company. (See Lippincott, Fisher H., assignor.)						
American Soda Fountain Company. (See Ormerod, John, assignor.)						
American Specialty Company. (See Capewell, George J., assignor.)						
American Specialty Company. (See Capewell and Allen, assignors.)						
American Specialty Company. (See Merrill, Oliver C., assignor.)						
American Steel Bolster Company. (See Schaffer, Morse B., assignor.)						
American Stoker Company. (See Brown, Arthur F., assignor.)						
American Stoker Company. (See Graham, David F., assignor.)						
American Street Car Sprinkler Company. (See Gathright, John R. and J. B., assignors.)						
American Sugar Refining Company. (See Sternberg, Lothar, assignor.)						
American Surgical Company. (See Stratton, George M., assignor.)						
American Tap Bush Company. (See Fischer, Albert, assignor.)						
American Tap Bush Company. (See Mohn, John, assignor.)						
American Telephone and Telegraph Company. (See Backus, Edward E., assignor.)						
American Telephone and Telegraph Company. (See Pickernell, Frank A., assignor.)						
American Telephone and Telegraph Company. (See Pickernell and Perrin, assignors.)						
American Tobacco Company. (See Campbell, Daniel J., assignor.)						
American Tobacco Company. (See Peterson, Jonathan, assignor.)						
American Tripoli Company. (See Retter, Jacob, assignor.)						
American Type Founder's Company. (See Baas, Isaac, Jr., assignor.)						
American Viscose Company. (See Beadle, Clayton, assignor.)						
American Waltham Manufacturing Company. (See Howe, Elmer C., assignor.)						
American Washboard Company. (See Cannon, Warren B., assignor.)						
American Washboard Company. (See Joecken, Peter J., assignor.)						
American Washboard Company. (See Sargent, James T., assignor.)						
American Washboard Company. (See Sargent and Weiss, assignors.)						
American Washboard Company. (See Weiss, Andrew, assignor.)						
American Well Works. (See Chapman, Matthew T., assignor.)						
American Writing Machine Company. (See Fairfield, John M., assignor.)						
Amerman, Abram. (See Carhart, Clarence M., assignor.)						
Ames, Alden T. (See Fulton and Ames.)						
Ames, Charles D., Portland, Ind., assignor to Creamery Package Manufacturing Company, Chicago, Ill. Machine for sanding butter-tubs.	573,846	Dec. 29	3154	752	77	1945
Ames, Charles L. (See Morrison and Ames.)						
Ames, Franklin, Chicago, Ill. Fabric-display rack	563,004	June 30	3425	834	75	2099
Ames & Frost Company. (See Morrison and Ames, assignors.)						
Ames Iron Works. (See Armstrong, Edwin J., assignor.)						
Ames, Joshua F., Rockland, Mass. Apparatus for beating or pressing out welts about toes of boots or shoes	559,115	Apr. 28	2810	{ 680 681 }	{ 75 76 }	{ 582 1526 }
Ames, Rufus, Fort Wayne, Ind. Transplanting-machine	567,439	Sept. 8	1255	{ 302 303 }	{ 76 77 }	{ 1526 1646 }
Amet, Edward H., Waukegan, Ill. Talking-machine apparatus	573,071	Dec. 15	1728	414	77	1646
Amet, Edward H., Waukegan, assignor of one-half to C. Dickinson, Chicago, Ill. Graphophone	562,693	June 23	2835	688	75	1963
Amet, Edward H., Waukegan, assignor of one-half to C. Dickinson, Chicago, Ill. Graphophone or device for reproducing sounds from sound-writings	562,694	June 23	2837	689	75	1963
Amet, Edward H., Waukegan, assignor of one-half to C. Dickinson, Chicago, Ill. Graphophone	562,753	June 23	2949	715	75	1986
Amick, Myron J., New York, N. Y. Gas-regulator	572,044	Nov. 24	2861	673	77	1233
Amick, Oscar P. (See Dallas and Amick.)						
Amies, Joseph H., Philadelphia, Pa. Manufacturing composition railway-ties, &c.	553,821	Feb. 4	2	1	74	505
Ammerman, William M., Charleston, Ill., assignor to E. J. Toof, New Haven, Conn. Buttonhole attachment for sewing-machines	558,920	Apr. 28	2476	602	75	515
Ammon, Charles T., Wooster, Ohio. Saw-handle	562,787	June 30	3013	728	75	2015
Ammons, Alfred M., assignor of one-half to H. Turner, St. Louis, Mo. Brake-staff	564,960	Aug. 4	1	1	76	617
Amons, Gilbert. (See Halling, Charles O., assignor.)						
Amos, Alexander M., Buffalo, N. Y. Steam-cooker	566,884	Sept. 1	249	57	76	1330
Amos, Charles, et al. (See Bury, Harry W., assignor.)						
Amos, George W., Chicago, Ill. Driving-gearing for cycles	565,659	Aug. 11	1309	316	76	879
Amos, Harry M., Rainsburg, Pa. Fruit-evaporator	556,912	Mar. 24	2554	602	74	1656
Amos, Jacob. (See Harvey and Amos.)						
Amo, Max, New York, N. Y. Knockdown cell for packing-cases	564,357	July 21	1963	463	76	393
Amo, Max, New York, N. Y. Sheet-metal can	570,591	Nov. 3	293	72	77	693
Amatutz, Noah S., Cleveland, Ohio. Engraving	569,595	Oct. 13	1531	359	77	304
Anck, John M., Philadelphia, Pa. Waist and skirt supporter	560,337	May 19	1828	416	75	1088
Andersen, Andrew A., Altoona, Pa. Car-door lock	559,431	May 5	150	33	75	710
Andersen, Jens P., Nellerod, assignor to B. G. P. Möller, Kolding, Denmark. Magazine-camera	565,712	Aug. 11	1394	340	76	896
Andersen, Sophie, Copenhagen, Denmark. Soap	556,726	Mar. 24	2231		74	1597
Anderson, A. D., et al. (See McCauley, John H., assignor.)						
Anderson, Albin, New York, N. Y. Knife and corn-holder	562,946	June 30	3330	800	75	2079
Anderson, Allen T. (See Long and Anderson.)						
Anderson, Andrew, assignor of three-fourths to G. Parker and A. E. Johnson, Hastings, Minn. Hot-air stove or furnace	556,913	Mar. 24	2555	602	74	1656
Anderson, Andrew, assignor to Improved Match Company, Detroit, Mich. Machine for sanding match-boxes	570,244	Oct. 27	2691	639	77	548
Anderson, Anton, Chicago, Ill. Wheel for cultivators	558,250	Apr. 14	1308	319	75	264
Anderson, Anton, Chicago, Ill. Plowing-machine	558,336	Apr. 14	1452	357	75	292
Anderson, Arlando H. (See Brunner, Jacob H., assignor.)						
Anderson, Arnold G., Chicago, Ill., assignor to G. B. Gaston, Indianapolis, Ind. Button-hole-sewing machine	565,713	Aug. 11	1395	{ 340 341 }	{ 76 76 }	{ 896 896 }

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Anderson, August R., Cameron, Idaho. Rolling harrow	570,532	Nov. 3	173	46	77	670
Anderson, Benjamin B., and F. S. Wagenhals, Columbus, Ohio. Inhaler	552,656	Jan. 7	274	74	74	53
Anderson, Byron W., New Rochelle, N. Y., assignor to Metropolitan Machine Works, of New York. Bicycle-locking device	561,070	May 26	3143	726	75	1349
Anderson, Carl A., Orion, Ill. End-gate	555,200	Feb. 25	2493	588	74	1019
Anderson, Carl P., Everett, Mass. Set-screw cover for shafting	573,751	Dec. 22	2994	709	77	1900
Anderson, Charles, assignor to South Bend Iron Works, South Bend, Ind. Sulky-plow	552,571	Jan. 7	115	32	74	23
Anderson, Charles A., Cale, Ind. Ter. Hay-press	558,754	Apr. 21	2178	524	75	443
Anderson, Charles E., Altman, Colo. Guard for mines	553,382	Jan. 21	1632	386	74	331
Anderson, Chris, Leeds, England. Closed-conduit electric railway	555,487	Mar. 3	3	1, 2	74	1131
Anderson, Chris, Leeds, England. Closed-conduit electric railway	555,488	Mar. 3	7	2, 3	74	1132
Anderson, Con D., Springfield, Ohio. Gas-engine	567,954	Sept. 22	2116	510	76	1719
Anderson, Edward. (See Swanson, Peter N., assignor.)						
Anderson, Frederick F., and T. Krauss, Argentine, Kans. Ice or snow vehicle	566,438	Aug. 25	2696	658	76	1178
Anderson, Fredrick, Lantz, Pa. Pipe-clamp	570,975	Nov. 10	999	232	77	853
Anderson, George F. (See Mercer, Byron, assignor.)						
Anderson, George F., Marshalltown, Iowa. Heater and heating-drum	564,464	July 21	2149	502	76	426
Anderson, George S. and R., Jeffersonville, assignors to S. Watson, Dublin, Ind. Wire-fence machine	573,632	Dec. 22	2789	660	77	1863
Anderson, Gilbert, Christchurch, New Zealand. Automatic weighing apparatus	561,470	June 2	730	179	75	1507
Anderson, Gustaf A., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Compensating gear	555,295	Feb. 25	2663	623	74	1050
Anderson, Gustaf A., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Cross-head	555,296	Feb. 25	2665	623	74	1051
Anderson, Gustaf A., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Spark-arrester	555,297	Feb. 25	2666	624	74	1051
Anderson, Gustaf A., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Valve-gear	555,298	Feb. 25	2667	624 625	74	1051
Anderson, Gustaf A., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Friction-clutch	572,238	Dec. 1	254	61	77	1327
Anderson, Gustaf A., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Pneumatic stacker	573,125	Dec. 15	1821	439 440 441	77	1664
Anderson, Hans M. L., Chicago, Ill. Device for raising or lowering cutting-plates of cracker-machines	562,788	June 30	3014	728	75	2015
Anderson, Hans M. L., and J. Nelson, assignors to said Anderson and W. Balster, Chicago, Ill. Machine for forming loaves of dough	558,337	Apr. 14	1454	357 358	75	292
Anderson, Henry B., St. Louis, Mo. Swinging sash	554,853	Feb. 18	1862	437 438	74	886
Anderson, Isaac, Saginaw, Mich., assignor of three-eighths to J. Dodds, Dayton, Ohio, and R. W. Hutchinsen, Marcellus, Mich. Telephone-switchboard	556,609	Mar. 17	2041	478 479	74	1543
Anderson, James A., Kansas City, Mo. Collar-folding machine	572,239	Dec. 1	255	61	77	1327
Anderson, James B., Rockford, Ill. Burial-casket	563,118	June 30	3638	871	75	2139
Anderson, James C., Highland Park, Ill. Process of and apparatus for treating wool	553,222	Jan. 21	1333	324	74	279
Anderson, James W. (See Anderson, John and J. W.)						
Anderson, James W. (See Perry, John, assignor.)						
Anderson, John, Portland, Conn. Runner for baby-carriages	553,822	Feb. 4	2	1	74	505
Anderson, John, Woodstock, Canada. Gate	556,171	Mar. 10	1924	286	74	1376
Anderson, John, Newcastle-upon-Tyne, England. Valve for power-motors	572,396	Dec. 1	565	133	77	1385
Anderson, John, assignor of one-half to C. H. Bell, Portland, Conn. Tool for expanding ends of lead pipes	559,763	May 5	714	169	75	817
Anderson, John, assignor to Alder & Mackay, Edinburgh, Scotland. Coin-freed gas-meter	567,440	Sept. 8	1256	303	76	1326
Anderson, John, and A. Bernsen, Denver, Colo. Centrifugal air-compression pump	554,634	Feb. 11	1485	347	74	797
Anderson, John and J. W., Missouri Valley, Iowa. Neck-yoke	557,751	Apr. 7	418	98	75	79
Anderson, John H. (See Anderson, Olof W., assignor.)						
Anderson, John P., New Haven, Conn. Can-opener	558,546	Apr. 21	1820	443	75	378
Anderson, Lee, assignor of one-half to H. H. Kirkpatrick, Paris, Tex. Locking device for railway-rail joints	564,267	July 21	1820	426	76	368
Anderson, Leonidas E., Pittsburg, Pa. Car-fender	557,550	Apr. 7	417	97, 98	75	79
Anderson, Macfarlane, Northport, Wash. Producing photographs in colors	559,051	Apr. 28	2695	656	75	557
Anderson, Malcolm, New York, N. Y. Lifting-jack	554,612	Feb. 11	1138	337	74	788
Anderson, Neal L., Montgomery, Ala. Type-writing machine	554,567	Feb. 11	1345	315 316	74	771
Anderson, Odin, Des Moines, Iowa. Movable distributing-spout for pumps	556,041	Mar. 10	979	234	74	1331
Anderson, Ole, New Sweden, Minn. Match-delivering and cigar-cutting apparatus	569,482	Oct. 13	1303	307	77	262
Anderson, Olof W., assignor to J. H. Anderson, Chicago, Ill. Letter-copying press	559,657	May 5	525	120	75	782
Anderson, Oscar, Newark, N. J. Centrifugal creamer	553,223	Jan. 21	1336	324	74	279
Anderson, Osman H., Goddard, Kans. Combined straw-carrier and grain-separator	560,768	May 26	2631	604	75	1251
Anderson, Per A., and J. B. Peterson, Chicago, Ill. Combination-tool	556,297	Mar. 10	1486	345	74	1424
Anderson, Robert. (See Anderson, George S. and R.)						
Anderson, Robert, and F. O. P. Shutt, Philadelphia, Pa. Dumping-wagon	561,471	June 2	731	180	75	1508
Anderson, Robert J. (See Anderson, Theodore M. and R. J.)						
Anderson, Robert S. (See Brown, Andrew J., assignor.)						
Anderson, Robert W., Peoria, Ill. Clothes-line prop	563,248	July 7	4	1	76	3
Anderson, Theodore M., New Whatcom, Wash. Oiling attachment	556,608	Mar. 17	2040	478	74	1543
Anderson, Theodore M. and R. J., New Whatcom, Wash. Shelf-bracket	560,884	May 26	2850	632	75	1293
Anderson, W. B. (See Schmackers, Anton, assignor.)						
Anderson, Wella P., Carthage, Mo. Heater	563,902	July 14	1163	273	76	233
Anderson, Wella P., Carthage, Mo. Open-fireplace heater	566,732	Sept. 1	2	1	76	1281
Anderson, William, Boston, Mass. Pipe-cutter	553,663	Jan. 28	2107	498	74	436
Anderson, William A., Alpha, Mo. Pump-operating mechanism	554,568	Feb. 11	1352	316	74	773
Anderson, William C., San José, Cal. Brush-rake	559,882	May 12	981	218	75	881
Anderson, Gustaf M., Newark, N. J. Manufacture of butter	555,892	Mar. 3	695	167	74	1259
Anderson, Gustaf M., assignor to H. G. Taube, Newark, N. J. Centrifugal apparatus	555,893	Mar. 3	696	168	74	1259
Anderson, Gustaf M., assignor to United States Butter Extractor Company, Newark, N. J. Centrifugal machine	555,552	Mar. 3	120	27	74	1152
Anderson, Julius, Chatham, N. J. Tobacco-pipe	572,240	Dec. 1	257	61	77	1327
Andina, Peter, Boston, Mass. Sofa-bed	561,751	June 9	1241	293	75	1631
Andrae, Gustav. (See Goldstein and Andrae.)						
André, Emile M. D., Meru, France. Lantern for use in manufacturing pipes	561,691	June 9	1123	267 268	75	1607
André, Thomas J., Wauseon, Ohio. Fence-making tool	558,468	Apr. 21	1700	411	75	355
André, Thomas J., Wauseon, Ohio. Fence	562,945	June 30	3330	800	75	2079

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Andreas, John H., <i>et al.</i> (See Buxbaum, Karl, assignor.)						
Andreoli, Emile, London, England. Apparatus for producing ozone and luminosity by electricity	565,952	Aug. 18	1446	449	76	999
Andreoli, Emile, London, England. Apparatus for indirect electrolysis	565,953	Aug. 18	1847	449	76	1000
Andreoli, Emile, London, England. Apparatus for electrodeposition of gold or silver	568,724	Oct. 6	1	1	77	3
Andrew, Charles. (See McCallum, William A., assignor.)						
Andrew, Thomas H., assignor of one-third to W. J. Andrew, Lemars, Iowa. Guard for bridges	566,960	Sept. 1	384	89, 90	76	1355
Andrew, William E., Atlantic Highlands, N. J. Combined cap and stopper	566,121	Aug. 18	2141	521	76	1056
Andrew, William E., Atlantic Highlands, N. J. Blind for windows	572,045	Nov. 24	2864	673	77	1234
Andrew, William J. (See Andrew, Thomas J., assignor.)						
Andrews, Aretas B., Centre Point, Iowa. Automatic vehicle and motor power	559,561	May 5	365	88	75	753
Andrews, Charles. (See McCallum, William A., assignor.)						
Andrews, Charles W., assignor to Mallory & Wheeler Company, New Haven, Conn. Hotel-door lock	571,210	Nov. 10	1408	329	77	928
Andrews, Elbert J., Hartford, Conn., assignor to Thorne Type Setting Machine Company, Jersey City, N. J. Type setting and distributing machine	567,212	Sept. 8	834	198	76	1451
Andrews, Emanuel, deceased; S. A. Andrews, Williamsport, Pa., executrix. Bit-tooth saw	558,338	Apr. 14	1456	358	75	293
Andrews, Emery. (See Andrews, Paul I. and E.)						
Andrews, Ezra R., <i>et al.</i> (See Dustin, Leander, assignor.)						
Andrews, Herbert L., Chicago, Ill. Type-writer's chair	552,502	Jan. 7	1	1	74	3
Andrews, Horace W., Boston, Mass. Document-file	564,404	July 21	2050	440 441	76	409
Andrews, Jacob R., assignor to Hyde Windlass Company, Bath, Me. Riding or mooring bitt.	572,397	Dec. 1	566	134	77	13-5
Andrews, James, Allegheny, Pa. Relief device for blast-furnaces	554,569	Feb. 11	1353	317	74	773
Andrews, James C., New Haven, Conn. Underwaist	571,636	Nov. 17	2133	512	77	1076
Andrews, Otis, El Paso, Tex. Crate for shipping bananas	565,822	Aug. 11	1592	390	76	932
Andrews, Paul I. and E., Kennebunk, Me. Extension-valve	562,695	June 23	2839	689	75	1964
Andrews, Robert M., Richmond, Va. Multiple switchboard	565,823	Aug. 11	1593	390	76	932
Andrews, Samuel S., assignor of one-half to C. L. Joy and C. G. Cox, Grand Junction, Iowa. Mail-bag catcher and crane	559,317	Apr. 28	3210	775	75	653
Andrews, Sarah A., executrix. (See Andrews, Emanuel.)						
Andrews, Thomas H., assignor of one-half to H. W. Morosco, San Francisco, Cal. Support for stage-scenery	559,562	May 5	366	88	75	754
Andrews, Walter S., Montague, Mass. Safety-envelope	554,640	Feb. 18	1495	350	74	815
Andrews, William, Lowell, Mass. Artificial leg	563,247	July 7	1	1	76	3
Andrews, William S., Schenectady, N. Y., assignor to General Electric Company, of New York. Rheostat	559,349	May 5	1	1	75	681
Andria, Michel N. d', Stretford, England. Manufacture of colcothar	564,731	July 28	2611		76	529
Andriot, Peter M., Dayton, and R. E. McClanahan, Newport; said McClanahan assignor to J. C. Stone, Dayton, Ky. Mail receiver and deliverer for cars	557,332	Mar. 31	3228	769	74	1815
Androvett, Edward. (See Chadborn and Androvett.)						
Andrus, Elmer M., Mitchell, Oreg. Furnace-door	573,847	Dec. 29	3156	752	77	1945
Andrus, Fernando W., Watertown, assignor of one-half to S. Ramsden, Cambridge, Mass. Game	554,357	Feb. 11	1000	231	74	705
Andrus, Thomas O., and T. J. Newton, Albany, Vt. Pan-lifter	572,187	Dec. 1	159	39	77	1308
Angell, Albert, West Orange, N. J. Flax-brake	564,358	July 21	1969	463	76	394
Angell, Albert, East Orange, assignor to M. P. Ward and I. M. Williams, Orange, N. J. Hemp and flax cleaner	558,921	Apr. 28	2478	602	75	515
Angell, Augustus, Hartford, Conn., assignor of one-half to W. E. Wright, Burlington, N. J. Office-indicator	571,325	Nov. 17	1608	382	77	981
Angell, Charles E., Providence, R. I. Mechanism for supplying air to bellows of church-organs	566,051	Aug. 18	2011	488	76	1033
Angell, John W., assignor of one-half to D. M. Estey, Owosso, Mich. Safety-fender for street-cars	571,256	Nov. 10	1455	349 350	77	942
Angell, Ransom S., Oakes, N. D. Traction-engine	571,326	Nov. 17	1609	382	77	981
Anger, Edouard. (See Jury and Anger.)						
Angerer, Victor. (See Howe and Angerer.)						
Angerer, Victor, assignor to William Wharton, Jr., & Company, Incorporated, Philadelphia, Pa. Track structure	553,771	Jan. 28	2288	542	74	471
Angsten, Peter N., and C. H. Gesbeck, Chicago, Ill. Panoramic camera	567,559	Sept. 8	1437	345	76	1559
Angus, George S., (See Woltersdorf and Angus.)						
Angus, George S., Chicago, Ill. Tile partition or wall	558,755	Apr. 21	2184	525	75	444
Angus, Job W., Elizabeth, N. J., assignor to M. Briggs, Brooklyn, N. Y. Apparatus for steaming staves for barrels	553,801	Jan. 28	2331	554	74	480
Ann Arbor Manufacturing Company. (See Stevenson, John H., assignor.)						
Annan, John, Brooklyn, N. Y. Automatic safety spring-clutch	569,396	Oct. 13	1169	278	77	239
Annesley, Reginald B., <i>et al.</i> (See Sykes and O'Donnell, assignors.)						
Annin, Bryant W., assignor of one-half to C. A. Phelps, Minneapolis, Minn. Mechanical toy	564,961	Aug. 4	3	1	76	617
Anspach, Charles H., Cedar Grove, Ind. Vegetable-slicer	564,962	Aug. 4	4	2	76	617
Anspach, Nathan H., Chicago, Ill. Underground-trolley system	553,635	Jan. 28	2055	486	74	428
Ansterburg, Michael W., Homer, Mich. Wrench	562,112	June 16	1868	453	75	1766
Anthoine, George N., Birmingham, Ala. Gin-saw-filing machine	566,646	Aug. 25	3031	741	76	1242
Anthony, Johann, Flensburg, Germany. Veneer-sawing machine	557,180	Mar. 31	3018	721	74	1768
Anthony, Alfred R., New York, N. Y. Separator	556,078	Mar. 10	1057	252	74	1344
Anthony, Elliott E., Detroit, Mich. Boring-machine	569,197	Oct. 20	1538	361	77	321
Anthony, Richard A., New York, N. Y. Sensitized photographic fabric	559,658	May 5	526	121	75	783
Anthony, William A., Newark, N. J. Electric-motor regulator	569,919	Oct. 27	2230	529	77	460
Antisdel, Egbert M., Utica, N. Y. Folding bed	564,465	July 21	2150	503	76	426
Antrobus, John H., Ottumwa, Iowa. Poultry-crate	561,552	June 9	1419	341	75	1662
Apostoloff Automatic Telephone Parent Syndicate. (See Berditschewsky, called Apostoloff, Salomon, assignor.)						
Apple, John, assignor of one-half to J. M. Lewis, Trenton, N. J. Wrist-rest for stringed instruments	556,238	Mar. 10	1344	316	74	1397
Appleby, John F., Chicago, assignor to C. F. Craver, Harvey, Ill. Self-binder	552,503	Jan. 7	3	1, 2	74	3
Appleby, John F., Santa Cruz, Cal., assignor to William Deering & Company, Chicago, Ill. Harvesting-machine	554,854	Feb. 18	1864	438	74	887
Appleby, John F., Chicago, assignor to Harvester King Company, Harvey, Ill. Tension device for self-binding harvesters	567,803	Sept. 15	1863	446	76	1656
Appleby, John F., Chicago, assignor, by mesne assignments, to Harvester King Company, Harvey, Ill. Knotting mechanism for automatic grain-binders	567,932	Sept. 15	2065	495 496	76	1696
Appleby, John F., Chicago, assignor, by mesne assignments, to Harvester King Company, Harvey, Ill. Harvester	567,933	Sept. 15	2068	496 497 498	76	1696

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Appleby, John F., Chicago, assignor, by mesne assignments, to Harvester King Company, Harvey, Ill. Self-binding harvester.	567,934	Sept. 15	2073	498	76	1697
Appleby, John F., Chicago, assignor, by mesne assignments, to Harvester King Company, Harvey, Ill. Harvesting machinery.	567,935	Sept. 15	2075	499	76	1697
Appleby, Joseph, Aston, England. Driving-chain.	562,364	June 23	2285	556	75	1861
Applegarth, Rufus W. (See Mershon, Frank A., assignor.)						
Applegate, Eugene W., New York, assignor to J. B. Terbell, Corning, N. Y. Brake-shoe.	568,226	Sept. 22	2629	632	76	1813
Applegate, Eugene W., assignor to W. E. Gorton, Corning, N. Y. Brake-shoe.	569,983	Oct. 20	2217	527	77	444
Applegate, Hugh M., Unionville, Mo. Shackle for wagon-shafts.	573,633	Dec. 22	2791	660	77	1863
Appleman, Louis D., Waynesborough, Va. Telephone-transmitter.	559,476	May 5	221	49	75	725
Appleman, Louis D., assignor of one-half to W. N. Fishburne, Waynesborough, Va. Telephone-transmitter.	572,188	Dec. 1	161	39	77	1309
Appleton, Charles J., Long Island City, N. Y., assignor to O. Twombly, Laconia, N. H. Circular hand knitting-machine.	574,053	Dec. 29	3550	847	77	2016
Appleton, John, Middletown, Cal. Vehicle.	569,779	Oct. 20	1880	446	77	382
Appleton, John, assignor of two-thirds to J. Whitaker and J. H. N. Williams, Modesto, Cal. Plumb-level.	566,555	Aug. 25	2912	710	76	1218
Appleton, Lewis. (See Gardner and Appleton.)						
Appleton, Thomas, et al. (See Gregory, Joseph, assignor.)						
Appleyard, Arthur E., Natick, Mass., assignor, by mesne assignments, to National Electric Heating Company, Manchester, N. H. Electric heating apparatus.	571,257	Nov. 10	1488	350	77	943
Applin, Joseph, assignor to Hale & Kilburn Manufacturing Company, Philadelphia, Pa. Car-seat.	561,153	June 2	140	37	75	1393
Aramburu, Ramon, Barcelona, Spain. Photographic developing-cabinet.	557,633	Apr. 7	189	48	75	37
Arbogast, Charles V., Washington, Pa. Method of and apparatus for making hollow glass-ware.	568,287	Sept. 22	2725	653	76	1831
Arbogast, William A., and W. F. Keller, Allegheny, Pa. Stretcher-frame.	555,278	Feb. 25	2627	616	74	1043
Arbor City Chair Company. (See Richmond, William H., assignor.)						
Arbuckle Brothers. (See Smyser, Henry E., assignor.)						
Arcade Manufacturing Company. (See Morgan, Charles, assignor.)						
Archbold, George, assignor of one-half to W. S. Gordon, New York, N. Y. Composition of matter as substitute for wood, &c.	570,361	Oct. 27	2934		77	593
Archer, George W., Rochester, N. Y. Door for elevator-wells.	557,634	Apr. 7	190	49	75	37
Archer, George W., assignor to Archer Manufacturing Company, Rochester, N. Y. Barber's chair.	557,097	Mar. 31	2870	686	74	1741
Archer Manufacturing Company. (See Archer, George W., assignor.)						
Archer Manufacturing Company et al. (See Bergh, Bror F., assignor.)						
Arell, Joseph, Denver, Colo. Sifting-screen, &c.	564,179	July 21	1676	392	76	341
Arenas, Francis, Christ Church, New Zealand. Door-indicator.	556,525	Mar. 17	1915	446	74	1520
Arents, Charles R. (See Johnston, Walter R., assignor.)						
Argo, William H. (See Larimer and Argo.)						
Argue, Henry H. (See Sharpe and Argue.)						
Arkell, Bartlett, Canajoharie, N. Y. Bag.	565,587	Aug. 11	1181	284	76	854
Arlington Heights Manufacturing Company. (See Haskell, Benjamin C., assignor.)						
Armbrister, George L., Walton Furnace, Va. Seed and fertilizer distributor.	563,200	Jan. 14	1299	314	74	258
Armington, George A., assignor to Phoenix Iron Works Company, Cleveland, Ohio. Friction-clutch.	562,165	June 16	1954	474	75	1782
Armington, George A., assignor of one-fourth to R. B. Hartness, Cleveland, Ohio. Differentially-gearod pulley-block or lifting device.	562,790	June 30	3017	729	75	2016
Armleder, Otto, assignor to O. Armleder Company, Cincinnati, Ohio. Front gear for vehicles.	568,828	Oct. 6	193	46	77	39
Armour, Jonathan O. (See McDonald, Charles B., assignor.)						
Armstead, Michael J., Lowell, assignor to Dutcher Temple Company, Hopedale, Mass. Loom-temple.	564,136	July 14	1586	372	76	313
Armstrong, Albert H. (See Thomson and Armstrong.)						
Armstrong, Albert H., Schenectady, N. Y., assignor to General Electric Company, of New York. Electric car-lighting system.	556,079	Mar. 10	1058	252	74	1345
Armstrong, Albert H., Schenectady, N. Y., assignor to General Electric Company, of New York. Regulating alternating motors.	562,062	June 16	1774	429	75	1750
Armstrong, Albert H., Schenectady, N. Y., assignor to General Electric Company, of New York. Regulating polyphase circuits.	571,467	Nov. 17	1836	438	77	1023
Armstrong, Augustus. (See Clark, Horace L., assignor.)						
Armstrong, Charles M., assignor of one-half to J. Weber and J. Day, Barry, Ill. Smoke-consumer.	570,533	Nov. 3	175	47	77	670
Armstrong Cork Company. (See Richards, Ernest R., assignor.)						
Armstrong, D. R. (See Coutant, Oscar Z., assignor.)						
Armstrong, Edwin J., Oswego, N. Y. Governor for steam-engines.	570,307	Oct. 27	2852	676	77	577
Armstrong, Edwin J., assignor to Ames Iron Works, Oswego, N. Y. Crank-disk for steam-engines.	561,071	May 26	3144	726	75	1349
Armstrong, Edwin J., assignor to Ames Iron Works, Oswego, N. Y. Steam-engine crank-disk.	561,533	June 2	849	204	75	1530
Armstrong, Edwin J., assignor to Ames Iron Works, Oswego, N. Y. Metallic packing for piston and valve rods.	564,953	July 28	3000	714	76	600
Armstrong, Edwin J., assignor to Ames Iron Works, Oswego, N. Y. Piston for steam-engines.	569,532	Oct. 13	1398	330	77	280
Armstrong, Frederic B. (See Scott, Charles W., Jr., assignor.)						
Armstrong, George, San Francisco, Cal. Mold for pipe-covering.	557,351	Mar. 31	3341	802	74	1825
Armstrong, Harry W., Oakmont, Pa. Track-gage.	563,725	Oct. 6	3	1	77	3
Armstrong, Henry T., Joshua, Tex. Cotton-picking machine.	570,444	Nov. 3	4	1, 2	77	639
Armstrong, James D., Bayard, Iowa. Disk-sharpener.	558,922	Apr. 28	2479	602	75	515
Armstrong, Jasper N. (See Martin, William H., assignor.)						
Armstrong, John E., Santa Cruz, Cal. Cooking-stove.	569,397	Oct. 13	1171	278	77	239
Armstrong, John R., assignor to International Gas and Fuel Company, Chicago, Ill. Oil-burner.	569,315	Oct. 13	1038	247	77	214
Armstrong, Lewis D., deceased, Lock Haven, Pa.; M. M. Armstrong, administrator, assignor to New York and Pennsylvania Company, of Pennsylvania. Apparatus for leaching.	570,861	Nov. 3	802	184	77	788
Armstrong, Mylert M., administrator. (See Armstrong, Lewis D.)						
Armstrong, Robert G., assignor of two-thirds to J. M. Green and S. N. Lane, Chicago, Ill. Hame.	555,279	Feb. 25	2628	616	74	1044
Armstrong, Robert G., assignor of two-thirds to J. M. Green and S. N. Lane, Chicago, Ill. Adjustable hame.	559,020	Apr. 28	2642	644	75	548
Armstrong, Robert M., et al. (See Parker, William S., assignor.)						
Armstrong, Thomas J., Cleveland, Ohio. Bicycle-propelling mechanism.	572,398	Dec. 1	566	134	77	1386
Armstrong, William C., New York, N. Y. Electric-arc lamp.	564,771	July 28	2682	638	76	542

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Armstrong, William C., New York, N. Y. Electric-arc lamp.....	564,772	July 28	2685	638	76	542
Arndt, Max, Aix-la-Chapelle, Germany. Electric apparatus for registering figures at distances.....	569,598	Oct. 20	1539	361	77	321
Arner, William H., Groveland, N. Y. End-gate fastening.....	573,848	Dec. 29	3157	752	77	1946
Arnett, William D., Parma, Idaho. Grading-machine.....	556,954	Mar. 24	2617	615	74	1668
Arnfield, Alfred, Lowell, Mass. Grate for cotton-lappers.....	561,853	June 9	1420	{ 341 342 }	75	1663
Arnhold, Hermann, Berlin, Germany. Gaselier.....	569,076	Oct. 6	618	140	77	118
Arnold, Amos W. C., Providence, R. I. Cloth-tentering machine and chain therefor.....	562,508	Sept. 29	3103	{ 748 749 }	76	1917
Arnold, Benjamin, East Greenwich, R. I. Bicycle-alarm.....	566,158	Oct. 13	763	177	77	161
Arnold, Chester H. (See Wales and Arnold.)						
Arnold, Clarence R., and A. M. Lichtenberger, Wellsville, Ohio. Window-sash.....	562,729	June 30	3015	728	75	2015
Arnold, Collins, Albany, N. Y. Night-drawers.....	569,483	Oct. 13	1306	{ 307 308 }	77	263
Arnold, David B., Terre Haute, Ind. Ice-harvesting machine.....	554,165	Feb. 4	672	{ 151 152 }	74	628
Arnold, Engelbert, Zurich, Switzerland. Alternating-current motor.....	562,365	June 23	2287	{ 556 557 }	75	1861
Arnold, Engelbert, Karlsruhe, Germany. Electric motor and dynamo.....	562,366	June 23	2292	557	75	1861
Arnold, Ernest J., Lonsdale, R. I. Machine for dropping dough.....	560,825	May 26	2251	653	75	1294
Arnold, George. (See Bagnall and Arnold.)						
Arnold, George W., et al. (See Merritt, William B., assignor.)						
Arnold, Horace L., Hartford, Conn. Type-writing machine.....	572,350	Dec. 1	458	{ 107 108 109 110 }	77	1365
Arnold, Isaac H., J. F. Lillard, and F. Sterzing, Austin, Tex. Washing-machine.....	566,855	Sept. 1	252	58	76	1330
Arnold, Lemau, Northville, and M. Lary, Amsterdam, N. Y.; said Arnold assignor to said Lary. Stovepipe-thimble.....	573,954	Dec. 29	3356	804	77	1981
Arnold, Lemuel D., Mount Auburn, Ill. Reel-carrier.....	557,732	Apr. 7	419	98	75	79
Arnold, Lucius F., Phenix, R. I. Fastening for tenon-joints.....	559,924	May 12	1061	236	75	895
Arnold Novelty Company. (See Arnold, William S., assignor.)						
Arnold, Raiford A., assignor of one-half to P. Maureaux, San Antonio, Tex. Lifting-jack.....	560,056	May 12	1299	292	75	941
Arnold, William B., North Abington, Mass. Removable form for boots or shoes.....	568,325	Sept. 29	2792	671	76	1859
Arnold, William S., San Francisco, Cal., assignor to Arnold Novelty Company, Tacoma, Wash. Holder for electric lamps.....	567,531	Sept. 8	1391	335	76	1551
Armstein, Eugene, Chicago, Ill. Enameling-oven.....	565,660	Aug. 11	1311	316	76	879
Arntfield, Henry S., Preston, Canada. Belt-coupling.....	555,064	Feb. 25	2248	537	74	971
Aron, Maurice, New York, N. Y. Bicycle-trousers.....	573,173	Dec. 15	1903	458	77	1650
Aronson, Saul. (See Lambert and Aronson.)						
Aronson, Saul, assignor of one-half to F. Lambert, Brooklyn, N. Y. Voting-machine.....	566,439	Aug. 25	2699	658	76	1179
Aronson, Saul, and F. Lambert, Brooklyn, N. Y. Voting-machine.....	566,440	Aug. 25	2704	659	76	1179
Aronsson, Per A. (See Nelson, Nels, assignor.)						
Arper, George W. (See Murdock, John M., assignor.)						
Arper, George W., Oakland, Cal. Faucet for oil-cans. (Reissue).....	11,560	July 28	3010	716	76	601
Arriaran, Pablo, Buenos Ayres, Argentine Republic. Apparatus for stopping runaway horses.....	555,356	Feb. 25	2767	648	74	1070
Arrick, Clifford, Indianapolis, Ind. Garbage or rubbish receptacle.....	569,990	Oct. 27	2233	530	77	460
Arrott, James W., Jr., Allegheny, Pa. Enameling-table.....	558,339	Apr. 14	1457	358	75	293
Art Stove Company. (See Cope, George W., assignor.)						
Arter, John C., et al. (See Gardner, Charles H., assignor.)						
Arthur, Christopher M., Bethany, assignor of one-half to J. H. Hillis, McFall, Mo. Powder-distributor.....	571,145	Nov. 10	1311	305	77	916
Arthur, Frank D., New York, N. Y. Vending-machine.....	572,513	Dec. 8	746	178	77	1435
Arthur, George H., Terre Haute, assignor of one-half to W. J. Evans, Brazil, Ind. Coupler for pianos.....	555,632	Mar. 3	253	59	74	1176
Arthur, John M., Detroit, Mich. Annunciator system for buildings.....	563,724	July 14	830	198	76	171
Arthur, William M. (See Casaday and Arthur.)						
Asay, Richard S., Cramer Hill, N. J. Skirt-supporter.....	559,477	May 5	223	50	75	726
Asche, Otto, Paris, France. Apparatus for soldering tin cans.....	552,809	Jan. 7	528	142	74	110
Ascheck, Henry F., Alameda, Cal. Lock-joint.....	555,201	Feb. 25	2195	589	74	1019
Ash, Christian J., Stillwater, Pa. Basket.....	559,250	Apr. 28	3104	750	75	635
Ash, Walter V., Irvington, N. J. Brake for electric cars.....	563,725	July 14	832	198	76	171
Ashald, Charles R., and J. A. Miller, Garrettsville, Ohio. Lantern.....	556,239	Mar. 10	1345	316	74	1397
Ashbaugh, John I., Richmond, Ky. Fodder compress and binder.....	564,910	July 28	2902	{ 695 696 }	76	582
Ashburner, Charles E. (See Stone, Roy, assignor.)						
Ashby, Harry V., Erie, Pa. Scarf-pin.....	556,020	Mar. 10	1059	253	74	1345
Ashby, Peter, Valley Falls, R. I., assignor to Whitin Machine Works, Whitinsville, Mass. Picker-strap dog for looms.....	569,570	Oct. 13	1480	344	77	295
Ashcroft, Edgar A., London, England. Method of and apparatus for generating steam.....	570,195	Oct. 27	2595	617	77	530
Ashcroft Manufacturing Company. (See Welsh, Thomas W., assignor.)						
Ashenfelter, Harry C., deceased, Spokane, Wash.; L. M. Ashenfelter, administratrix. Hanging and sliding door.....	562,152	Sept. 22	2503	{ 602 603 }	76	1729
Ashenfelter, Lida M., administratrix. (See Ashenfelter, Harry C.)						
Asher, John A., Greencastle, Ind. Churn.....	572,146	Dec. 1	90	20	77	1295
Ashford, Thomas B., assignor of one-half to H. D. Harper, Sr., Kinston, N. C. Journal for window-blind slats.....	564,137	July 14	1587	372	76	313
Ashley, Frank M., Hawthorne, N. J. Water-gage.....	565,714	Aug. 11	1402	342	76	897
Ashley, Frank M., Hawthorne, N. J. Sight-feed for lubricators.....	570,080	Oct. 27	2396	568	77	493
Ashley, Frank M., Hawthorne, N. J. Apparatus for sterilizing liquids.....	572,514	Dec. 8	749	178	77	1435
Ashley, Frank M., Hawthorne, N. J. Apparatus for sterilizing liquids.....	572,515	Dec. 8	750	179	77	1436
Ashley, Frank M., Hawthorne, N. J. Apparatus for sterilizing liquids.....	572,516	Dec. 8	752	179	77	1436
Ashley, James K., Rushville, Ill. Box-machine.....	564,240	July 21	1769	{ 413 414 }	76	359
Ashley, James L., and W. E. McDermott, Brookfield, Wash. Can-soldering machine.....	567,442	Sept. 8	1258	304	76	1526
Ashlin, Henry C., London, England. Construction of vessels.....	561,472	June 2	732	180	75	1508
Ashton, Charles A., Piqua, Ohio. Lawn-sprinkler.....	556,610	Mar. 17	2048	479	74	1544
Ashton, Frank, assignor of one-half to W. Bodden, Oldham, England. Apparatus for grinding parallel spindles, rods, or shafts.....	562,268	June 16	2117	{ 513 514 }	75	1812
Ashton, Frank, assignor of one-half to W. Bodden, Oldham, England. Apparatus for grinding ends of spindles.....	566,122	Aug. 18	2143	522	76	1056
Ashton, Thomas I., Fort Dodge, Iowa. Hitching-post.....	556,798	Mar. 24	2363	556	74	1621

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Ashurst, John L., Havana, assignor to L. B. Ashurst, Kilbourne, Ill. Press-drill.....	552,978	Jan. 14	911	221	74	184
Ashurst, Lewis B. (See Ashurst, John L., assignor.)						
Ashworth, Daniel, Wappinger's Falls, N. Y. Valve-gear for steam-engines	554,855	Feb. 18	1865	439	74	887
Askam, William F., Shelton, Conn. Rubber-separator.....	572,854	Dec. 8	1340	322	77	1553
Askins, Joseph, Lima, Ohio. Lock for bicycles	556,240	Mar. 10	1347	317	74	1398
Asmussen, Henry, <i>et al.</i> (See Williams, John A., assignor.)						
Aspden, Walter, Riverside, Cal. Sack used in picking citrus fruits	558,022	Apr. 14	925	230	75	191
Asper, Florence E., Chillicothe, Mo. Invalid's table	561,955	June 16	1595	387	75	1717
Asphaltina Company of America. (See Just, John A., assignor.)						
Aspinall, Frank B., London, England. Refining cotton-seed oil	557,098	Mar. 31	2871	686	74	1741
Assmann, Oswald, Tegelen, Netherlands. Binder for loose sheets of paper.....	561,932	June 9	1544	373	75	1687
Astenius, John O., Chicago, Ill. Reed.....	572,286	Dec. 1	351	83	77	1346
Astley, Arthur E. (See Percival and Astley.)						
Aston, William E., Brooklyn, N. Y. Drawbridge and automatic gate therefor	567,875	Sept. 15	1981	475	76	1806
Astor Manufacturing Company. (See Gladwin, Albert L., assignor.)						
Atherton, Giles, Stockport, England. Apparatus for pressing, shaping, and curling hats and hat-brims	567,573	Sept. 15	1473	{ 352 353 }	76	1582
Atherton, Robert. (See Birchall, Thomas, assignor.)						
Atherton, Robert. (See Faber du Faur, Adolf, assignor.)						
Atherton, Robert. (See Faber du Faur and Gartner, assignors.)						
Atherton, Robert. (See Gartner, Alfred, assignor.)						
Atherton, Robert. (See Scheid, Adam, assignor.)						
Atherton, Robert. (See Scheid and Atherton.)						
Atherton, Robert, Paterson, N. J. Supporting device for spindles. (Reissue)	11,521	Jan. 14	1330	323	74	263
Atherton, Robert, Paterson, N. J. Warp-beaming machine.....	560,769	May 26	2432	{ 604 605 }	75	1251
Atkins, Elias C., Indianapolis, Ind. Saw	561,079	June 2	3	1	75	1367
Atkins, Elias C., Indianapolis, Ind. Insertible-saw-tooth holder	561,080	June 2	5	1	75	1367
Atkins, Elias C., and R. Coyle, assignors to E. C. Atkins & Company, Indianapolis, Ind. Metal-straightening machine	573,955	Dec. 29	3357	805	77	1981
Atkins, George J., London, England. Manufacture of mineral colors for ceramic photography	572,095	Dec. 1	3		77	1279
Atkinson, Empson, Woodstown, N. J. Dish-cleaner	560,673	May 26	2466	565	75	1219
Atkinson, Henry C., and W. Miller, Louisville, Ky. Hand fire-engine	572,096	Dec. 1	4	1, 2	77	1279
Atkinson, Herbert C., assignor of one-half to A. F. Coghill, Auburn, Ky. Combined pipe wrench and cutter	569,533	Oct. 13	1399	331	77	280
Atkinson, Herbert C., and S. M. West, assignors to A. F. Coghill, Auburn, Ky. Hydrant.	554,166	Feb. 4	674	152	74	628
Atkinson, James. (See Crossley and Atkinson.)						
Atkinson, John, and C. F. Plunkett, New York, N. Y. Pipe-coupling for water-closet bowls, &c.	567,115	Sept. 1	675	157	76	1410
Atkinson, John D. (See Barnard, Moore, and Atkinson.)						
Atkinson, John D., <i>et al.</i> (See Barnard, Frank J., assignor.)						
Atkinson, Joseph, Florence, Canada. Adjustable collar	569,534	Oct. 13	1401	331	77	280
Atkinson, Mahlon B., assignor of two-thirds to B. J. Coyle and J. Fitzmorris, Washington, D. C. Street-sweeper	571,183	Nov. 10	1365	319	77	920
Atkinson, Thomas N., Philadelphia, Pa. Oar-lock	558,023	Apr. 14	926	230	75	191
Atkinson, William, Granby, Canada. Vehicle-gear	571,589	Nov. 17	2051	489	77	1061
Atlas Tack Corporation. (See Paull, Elbridge G., assignor.)						
Atwater, Charles E. (See Curtis and Atwater.)						
Atwater Manufacturing Company. (See Walker and Pearce, assignors.)						
Atwell, Vernon P. (See Chapman, Frank L. G., assignor.)						
Atwood, Benjamin S., Whitman, Mass. Packing-case for bottles	558,923	Apr. 28	2480	603	75	516
Atwood, Benjamin S., Whitman, Mass. Table for box-nailing machines	561,692	June 9	1124	268	75	1608
Atwood, Carroll, Arkansas City, Kans. Gate	560,674	May 26	2468	565	75	1220
Atwood, Charles W., Middle Granville, N. Y. Line-number and position attachment for type-writers	569,909	Oct. 20	2085	496	77	421
Atwood, Eugene, assignor to Atwood Machine Company, Stonington, Conn. Spindle-driving mechanism	567,064	Sept. 1	579	135	76	1391
Atwood, George H. (See Jones, Samuel O., assignor.)						
Atwood, John W., Malden, Mass., assignor to himself, and A. Booth Packing Company, Chicago, Ill. Net-lifting device	572,399	Dec. 1	568	{ 134 135 }	77	1386
Atwood, Leonard, assignor to J. M. Dodge, Philadelphia, Pa. Power-transmitting device.	562,636	June 23	2841	{ 689 690 }	75	1964
Atwood Machine Company. (See Atwood, Eugene, assignor.)						
Atwood Machine Company. (See Bradley, Edward E., assignor.)						
Aubert, Louis J. J., Moulins, France. Plumb-level	555,469	Mar. 3	9	3	74	1132
Auble, John, and A. D. Weiss, Wilkes-Barré, Pa., assignors to R. W. Lee and J. A. Watson, Washington, D. C. Lawn-sprayer	558,891	Apr. 21	2414	588	75	488
Auerbach, Leopold A., New York, N. Y. Folding bed	562,269	June 16	2120	514	75	1613
Auerbach-Woolverton Electric Company. (See Scheffbauer, Rupert, assignor.)						
Augensen, Olaus S., Chicago, Ill. Shoe-lace clasp	569,398	Oct. 13	1173	278	77	240
Auzar, Charles D., Turin, N. Y. Boat-propeller	561,956	June 16	1596	387	75	1717
Auld, Daniel W., Sibley, Mo. Windmill	556,396	Mar. 17	1663	388	74	1473
Aultman Company. (See Moats, Ortus E., assignor.)						
Auman, Harvey E., Reading, Pa. Blank furnace and burner	573,126	Dec. 15	1828	441	77	1666
Aurand, Balera J., Jackson, Mich. Carriage-curtain fastener	558,707	Apr. 21	2099	507	75	428
Austin, Charles F. (See Thorn and Austin.)						
Austin & Eddy. (See Fernald, George W., assignor.)						
Austin, Eugene, assignor to Austin Separator Company, Detroit, Mich. Oil-separator	552,572	Jan. 7	117	32	74	24
Austin, Eugene, assignor to Austin Separator Company, Detroit, Mich. Oil and water separator	555,553	Mar. 3	121	27	74	1152
Austin, Francis B., Tempe, Ariz. Ter. Amalgamator	563,119	Jan. 30	3639	872	75	2139
Austin, Frederick C. (See Bunnell, Morton G., assignor.)						
Austin, Frederick C. (See Bunnell and Belfield, assignors.)						
Austin, Frederick C. (See Bunnell and Page, assignors.)						
Austin, Frederick C. (See Hinman, Clement F., assignor.)						
Austin, Frederick C. (See Hinman and Bunnell, assignors.)						
Austin, George B., Dundas, Minn. Tension device for check-row wires.....	554,969	Feb. 18	2057	489	74	922
Austin, George W. S. (See Barker and Austin.)						
Austin, George W. S. (See Taylor and Austin.)						
Austin, Jesse M., Woodstock, Ill. Railway-brake mechanism	563,353	July 7	207	47	76	42
Austin, John T., assignor to Bartlett, Hayward & Co., Baltimore, Md. Shaking-grate for domestic hot-air furnaces	565,400	Aug. 4	815	193	76	768
Austin, Leonard S., Denver, Colo. Revolving ore-roaster	557,937	Apr. 7	724	174	75	137

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Austin, Salmon L., De Kalb, Ill. Device for supporting pails.....	558,340	Apr. 14	1460	359	75	293
Austin Separator Company. (See Austin, Eugene, assignor.)						
Austin, Theodore W., New York, N. Y. Apparatus for making feather boas.....	559,563	May 5	367	89	75	754
Austin, Thomas, <i>et al.</i> (See Yeakley, Melvin A., assignor.)						
Austin, William L., <i>et al.</i> (See McConnell, Jacob Y., assignor.)						
Austin, Willis R., and W. N. Craw, South Norwalk, Conn. Game apparatus.....	560,251	May 19	1677	382 383	75	1063
Austin, Willis R., and W. N. Craw, South Norwalk, Conn. Game-board.....	565,954	Aug. 18	1849	449	76	1000
Austing, Joseph, Cincinnati, Ohio. Wooden hub for vehicles.....	570,215	Oct. 27	2635	624	77	538
Automatic Camera Company. (See Esmond, William V., assignor.)						
Automatic Castor and Wheel Company. (See Lachman, Maurice, assignor.)						
Automatic Cycle Stand. (See Spencer, Sidney E., assignor.)						
Automatic Folding Bed Company. (See Bostad and Krabol, assignors.)						
Automatic Long Distance Telephone Company. (See Dunderdale, Cleaveland F., assignor.)						
Automatic Long Distance Telephone Company of Chicago, Ills. (See Dunderdale, Cleaveland F., assignor.)						
Automatic Mine Door Company. (See Bonenberger, George, assignor.)						
Automatic Rapid Lathe Company. (See Childs, Eugene, assignor.) (Reissue.)						
Automatic Switch Company of Baltimore City. (See Whittingham, George H., assignor.) (Reissue.)						
Automatic Track Sanding Company. (See Boulter, Mark E., assignor.)						
Automatic Wrapping Machine Company. (See Schloss, Meyer W., assignor.)						
Averell, Ellicott D., Brooklyn, assignor to J. A. Skilton, trustee, New York, N. Y. Game machine and apparatus.....	557,938	Apr. 7	725	174	75	137
Avery, Albert G., Grand Rapids, Mich. Vehicle-seat.....	566,836	Sept. 1	164	38	76	1314
Avery, Andrew J., Saco, Me. Walking-ladder.....	568,557	Sept. 29	3208	773	76	1934
Avery, Frederic R., administrator. (See Avery, Robert H.)						
Avery, Frederick C., Chicago, Ill. Ball-bearing.....	556,655	Mar. 17	2109	493	74	1556
Avery, Oliver. (See Swart and Avery.)						
Avery, Richard B. (See Parr and Avery.)						
Avery, Robert H., deceased; F. R. Avery, Peoria, Ill., administrator. Threshing-machine	561,552	June 9	879	211 212	75	1562
Avery, William. (See Copeland, Crisp, Grandy, and Avery.)						
Avery, William C., assignor of one-third to W. A. Cox, Springfield, Mo. Wire-fabric machine.....	571,079	Nov. 10	1185	278	77	887
Avery, William G., Painesville, Ohio. Stovepipe.....	562,697	June 23	2843	690	75	1964
Avila, V. Faustino. (See Barrientos, Francisco, assignor.)						
Avramovitz, Max, New York, N. Y. Trap.....	562,879	June 30	3198	774	75	2050
Axford, George S., and E. J. Lamberton, Rochester, Mich. Bottle.....	566,733	Sept. 1	4	1	76	1281
Axtell, Frank C. (See Stevens and Axtell.)						
Axtell, Henry A., Shelburne Falls, assignor of one-half to R. N. Oakman, Jr., Greenfield, Mass. Grinding and finishing machine.....	560,886	May 26	2853	653 654	75	1294
Axtell, Henry A., Shelburne Falls, assignor of one-half to R. N. Oakman, Jr., Greenfield, Mass. Grinding and finishing machine.....	560,887	May 26	2856	654 655	75	1295
Ayars, Charles H., Salem, N. J. Latch.....	560,888	May 26	2860	655	75	1295
Ayan, Manuel S., Guatemala, Guatemala. Centrifugal drying-machine.....	557,939	Apr. 7	727	175	75	137
Aydelott, Jacob S., Marion, Ind. Paper holder and cutter.....	572,351	Dec. 1	468	110	77	1367
Ayer, Albert E., assignor of two thirds to A. S. Vose, C. M. Sprague, and H. C. Adams, Boston, Mass. Type-writing machine.....	555,917	Mar. 10	734	178	74	1287
Ayer, Frederick, Downer's Grove, Ill. Potato-planter.....	555,918	Mar. 10	742	179	74	1288
Ayer, Joseph V. (See McCarel, William L., assignor.)						
Ayer, Melville C., Biddeford, Me. Pressing or ironing board.....	570,741	Nov. 3	599	137	77	748
Ayers, Clarence W., San Francisco, Cal. Automatic letter-stamping machine.....	558,141	Apr. 14	1124	274 275	75	230
Ayers, Frank W., assignor of one-half to E. E. Wood, Johnsonburg, Pa. Station-indicator.	557,635	Apr. 7	192	49	75	37
Ayers, Sherman, Fountaintown, Ind. Extensible bicycle crank.....	561,553	June 9	885	212 213	75	1562
Aylsworth, Jonas W., Newark, N. J., assignor of one-half to C. D. Marsh, New York, N. Y. Manufacturing electrical incandescing conductors.....	553,296	Jan. 21	1477	355	74	304
Aylsworth, Jonas W., Newark, N. J., assignor of one-half to C. D. Marsh, New York, N. Y. Incandescing electrical conductor.....	553,328	Jan. 21	1529	366	74	314
Aymard, John L. A., Ipswich, England. Sterilizing apparatus.....	566,886	Sept. 1	254	58	76	1331
Ayres, Daniel W., Durango, Colo. Clothes-line.....	559,925	May 12	1062	236	75	895
Ayres, David J., Keokuk, Iowa. Post-office letter-box case and memorandum.....	570,862	Nov. 3	804	184	77	788
Ayres, Louis H. (See Root, Howard C., assignor.)						
Ayres, Wallace S., Hazleton, Pa. Protractor.....	564,549	July 21	2281	535	76	450
Aze, Emile, assignor, by mesne assignments, of one-half to F. T. Fowler, Chicago, Ill. Crank-hanger bearing for bicycles.....	565,253	Aug. 4	527	138	76	523
Aze, Emile, assignor, by mesne assignments, of one-half to F. T. Fowler, Chicago, Ill. Vehicle-wheel.....	573,634	Dec. 22	2792	660	77	1863
B. Shoninger Company. (See Bein, William A., assignor.)						
Baake, Charles A., <i>et al.</i> (See Cronin, William D., assignor.)						
Baar, Charles, Grand Rapids, Mich. Grooving-saw.....	552,573	Jan. 7	117	33	74	24
Baas, Isaac, Jr., Milwaukee, Wis., assignor to American Type Founder's Company, of New Jersey. Type-mold.....	565,661	Aug. 11	1311	316 317	76	879
Baasel, William, Chicago, Ill. Tailor's cutting-chart.....	570,834	Nov. 3	756	172	77	779
Baasel, William, Chicago, Ill. Sleeve-chart.....	570,835	Nov. 3	758	173	77	780
Babbitt, Joseph M., P. F. Wood, and J. A. Doud, New Bedford, Mass. Bell-buoy.....	555,919	Mar. 10	744	179	74	12-9
Babbitt, Seward S. (See Steiner and Babbitt.)						
Babcock, Blake B. (See Weaver, Martin L., assignor.)						
Babcock, Curtis F., Auburn, Me. Heel-trimming pattern and holding device therefor.....	569,484	Oct. 13	1307	308	77	263
Babcock, Erskine L., Cuyahoga Falls, Ohio. Pulley.....	569,850	Oct. 20	1994	476	77	403
Babcock, Henry D., and D. St. John, Leonardsville, assignors to Standard Harrow Company, Utica, N. Y. Harrow.....	561,643	June 9	1036	249	75	1591
Babcock & Wilcox Company. (See Pratt, Nat W., assignor.)						
Baber, Zonia, Chicago, Ill. School-deak.....	563,638	July 7	674	158	76	127
Babis, John, Philadelphia, Pa. Brush for washing bottles.....	564,497	July 21	2196	515	76	435
Bach, Christoph, Jr., Milwaukee, Wis. Electric switch.....	565,662	Aug. 11	1315	317	76	880
Bach, John, Indianapolis, Ind. Potato-separator.....	553,891	Feb. 4	151	31	74	534
Bachand, Levi N., Chicago, Ill. Folding bed.....	564,578	July 21	2351	553	76	462
Baciand, Louis P., Southbridge, Mass. Bottle-cooler.....	563,726	July 14	834	198	76	172
Bache, Leigh S., Bound Brook, N. J. Sash-fastener.....	558,757	Apr. 21	2187	525	75	444
Bacheider, William B., Brooklyn Centre, assignor of one-half to G. A. Brown, Minneapolis, Minn. Hand-cultivator.....	556,327	Mar. 17	1542	359 360	74	1449

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Bachmann, Friedrich H., Magdeburg, and R. Wagner, Suhl, Germany. Cocking mechanism for guns.	568,288	Sept. 22	2727	{ 653 654	76	1831
Bachmann, Louis H., and O. R. Sulzer, Louisville, Ky. Ammonia-gas generator	573,956	Dec. 29	3359	805	77	1981
Bacho, Frederick W., Mobile, Ala. Pocket companion	555,752	Mar. 3	451	107	74	1211
Bachrach, Emanuel S., assignor to Utility Hook Company, New York, N. Y. Display device.	568,711	Sept. 29	3497	837	76	1990
Bachur, Max, <i>et al.</i> (See Knobloch, Johann F. R., assignor.)						
Back, James S., assignor of one-half to G. L. Orme, Ottawa, Canada. Autoharp.	559,764	May 5	715	{ 169 170	75	817
Backer, Felix de, Paris, France. Syringe	558,756	Apr. 21	2186	525	75	444
Backhouse, John, Jr., Liverpool, England. Grain-drier	570,783	Nov. 3	663	152	77	760
Backof, William C., assignor to W. A. Mayr, Chicago, Ill. Curtain-stretcher bar	561,693	June 9	1125	268	75	1608
Backstrom, Charles A., New York, N. Y., assignor to G. Westinghouse, Pittsburg, Pa. Steam-engine	572,946	Dec. 15	1512	{ 361 362	77	1603
Backus, Clyde. (See Rose, Jacob A., assignor.)						
Backus, Edmund P. (See Poole, Jacob O., assignor.)						
Backus, Edward E., New York, N. Y., assignor to American Telephone and Telegraph Company, of New York. Composite telegraphic and telephonic transmission.	553,605	Jan. 28	2010	476	74	420
Backus, Frederick E., Williamsport, Pa. Fireplace-lining	560,017	May 12	1225	274	75	927
Backus, Frederick E., Williamsport, Pa. Fireplace-heater	563,005	June 30	3427	825	75	2099
Backus, Oscar J., San Francisco, Cal. Low-water alarm	553,636	Jan. 28	2056	486	74	428
Backus Water Motor Company. (See Shepperd, Sylvanus D., assignor.)						
Bacon, Charles I., Madisonville, Ohio. Tally-tablet	561,253	June 2	298	75	75	1425
Bacon, Charles W., Burke, Wis. Tobacco-press	552,882	Jan. 14	729	178	74	151
Bacon, Gilbert, Antigo, Wis. Spring-bed	573,147	Dec. 1	92	80	77	1295
Bacon, Henry S., Worcester, Mass. Shoe-stretcher	562,791	June 30	3018	729	75	2016
Bacon, Henry S., Worcester, Mass. Metal-banding implement	565,663	Aug. 11	1316	317	76	880
Bacon, Henry S., Worcester, Mass. Metal-banding device	565,664	Aug. 11	1316	317	76	880
Bacon, James H., Wilmington, N. C. Suction-dredge	567,443	Sept. 8	1259	304	76	1526
Bacon, John F., <i>et al.</i> (See Bennum, George W., assignor.)						
Bacon, Joseph H., assignor of one-half to J. H. Berry, Detroit, Mich. Sectional boiler	552,861	Jan. 7	673	164	74	127
Bacon, Levi S. (See Johnson, Stephen O., assignor.)						
Bader, Edward, assignor of one-half to A. Friz, St. Louis, Mo. Fluid-pressure regulator	571,913	Nov. 24	2648	627	77	1192
Bader, Fred C. (See Brewer, Walter D., assignor.)						
Badger, Belden B., Ouaquaga, N. Y. Bottling-machine	553,047	Jan. 14	1013	{ 248 249	74	204
Badger, George L., Quincy, Mass. Method of and apparatus for dressing stone	561,367	June 2	537	{ 135 136	75	1473
Badger, Rollo M., Sayre, Pa. Inkstand	562,754	June 23	2952	715	75	1986
Badgley, Edwin L., assignor of two-thirds to O. E. Bryant, E. E. Smith, Clayton, and G. B. Oder, Springfield, Ill. Leaf-turner	569,399	Oct. 13	1174	{ 278 279	77	240
Badische Anilin and Soda Fabrik. (See Bernthsen and Julius, assignors.)						
Badt, Francis B. (See Lobach, Walter, assignor.)						
Badt, Francis B., Chicago, Ill. Electromagnetic sentinel	571,739	Nov. 24	2325	556	77	1132
Badt, Francis B., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Multiple-series system of electrical distribution	557,099	Mar. 31	2872	687	74	1741
Badt, Francis B., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Multiple-series system of electrical distribution	558,924	Apr. 28	2481	603	75	516
Badt, Francis B., and O. S. Lyford, Jr., assignors to Siemens & Halske Electric Company of America, Chicago, Ill. Ring-armature	566,288	Aug. 25	2403	590	76	1123
Baeppler, Louis. (See Friedman, Edgar, assignor.)						
Baer, Henry, New York, N. Y. Thermostatic fire-alarm	569,851	Oct. 20	1996	476	77	404
Baer, Julius, New York, N. Y. Toy	565,254	Aug. 4	589	139	76	723
Bagley, Allen, Ypsilanti, Mich. Dress-stay	571,327	Nov. 17	1611	383	77	982
Bagley, Charles H., New York, N. Y., assignor of one-half to H. S. Prentiss, Elizabeth, N. J. Detachable spout for cans	571,852	Nov. 24	2528	599	77	1170
Bagley, Perkins H., San Francisco, Cal. Boiler-furnace	566,837	Sept. 1	165	39	76	1314
Bagnall, Arthur, Baltimore, Md. Composition for enameling	556,727	Mar. 24	2231		74	1597
Bagnall, Ernest J., assignor to Adams-Bagnall Electric Company, Cleveland, Ohio. Electric-arc lamp	560,387	May 19	1919	{ 437 438	75	1105
Bagnall, Ernest J., assignor to Adams-Bagnall Electric Company, Cleveland, Ohio. Motor mounting and driving mechanism	567,560	Sept. 8	1439	346	76	1559
Bagnall, Ernest J., and G. Arnold, assignors to Adams-Bagnall Electric Company, Cleveland, Ohio. Electric-arc lamp	553,637	Jan. 28	2058	487	74	428
Bagnall, Richard A., Plattsburg, N. Y. Surgical instrument	559,350	May 5	3	1	75	681
Bagot, Beatrice L. (See Bagot, Charles F. R. A. H. and B. L.)						
Bagot, Charles F. R. A. H. and B. L., London, England. Device for locking velocipedes	564,498	July 21	2197	515	76	435
Bagshawe, Bernal, Headingly, England, assignor to Fox Solid Pressed Steel Company, Chicago, Ill. Car under frame	554,641	Feb. 18	1496	{ 350 351	74	815
Bahn, Ezra, Spring Grove, Pa. Stuff-regulator for paper-machines	565,665	Aug. 11	1317	318	76	881
Baier, Frederick A., assignor to Brownell Car Company, St. Louis, Mo. Car-seat	565,375	Aug. 4	766	{ 182 183	76	759
Baier, Frederick A., assignor to Brownell Car Company, St. Louis, Mo. Car-seat	565,376	Aug. 4	768	183	76	760
Bailey, Alfred A., Chelsea, Mass. Toe-clip for bicycle-pedals	553,638	Jan. 28	2061	487	74	429
Bailey, Charles H. (See Dugan and Bailey.)						
Bailey, Charles J., Newton, Mass. Eyeglasses or spectacles	567,955	Sept. 22	2118	510	76	1719
Bailey, Charles S., St. Augustine, Fla. Composition for removing paint	555,065	Feb. 25	2249		74	971
Bailey, Edward L., <i>et al.</i> (See Crow, Joseph T., assignor.)						
Bailey, Edward L., <i>et al.</i> (See Toye, William H. R., assignor.)						
Bailey, Edwin C., and W. S. Pond, Janesville, Wis. Bicycle-lock	562,880	June 30	3200	774	75	2050
Bailey, Effie A., Winchester, assignor of one-fourth to T. J. Marble, Newton, Mass. Hatstand	561,473	June 2	733	180	75	1508
Bailey, Frederic T., North Scituate, Mass. Canceling and stamping device	553,337	Feb. 25	2768	{ 648 649	74	1070
Bailey, George F., Peabody, assignor of one-half to J. N. Dows, Salem, Mass. Combined door-securer and key-ring chain	572,046	Nov. 24	2866	674	77	1234
Bailey, Henry P., East Orange, N. J. Paper-doll	554,410	Feb. 11	1096	255	74	723
Bailey, Herbert L., assignor to Bailey Manufacturing Company, Chicago, Ill. Automatic vehicle-brake	555,720	Mar. 3	397	92, 93	74	1201
Bailey, I. S. (See Mohr, William H., assignor.)						
Bailey, J. Henry, <i>et al.</i> , trustees. (See Cazin, Francis M. F., assignor.)						
Bailey, James C. (See Clapp and Bailey.)						
Bailey, James M., Pittsburg, Pa. Machine for truing and dressing pipes	566,123	Aug. 18	2144	522	76	1056
Bailey, James M., Allegheny, Pa. Apparatus for finishing pipe	569,014	Oct. 6	516	118	77	98

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Bailey, John J., Morristown, N. J. Bicycle-lamp	558,142	Apr. 14	1128	275	75	231
Bailey, John J., Jr., Denver, Colo. Atomizer	566,282	Aug. 18	2386	585	76	1103
Bailey, Joseph A., Morristown, N. J. Harrow	569,736	Oct. 20	1798	427	77	368
Bailey, Leonard, Wethersfield, Conn. Book lettering and embossing press	565,824	Aug. 11	1596	390	76	933
Bailey, Leonard, Wethersfield, Conn. Type-writing machine	569,737	Oct. 20	1799	427	77	369
Bailey Manufacturing Company. (See Bailey, Herbert L., assignor.)						
Bailey, Marcus B., Brooklyn, N. Y. Electric-lamp pole	567,116	Sept. 1	676	158	76	1410
Bailey, Marcus B., Chicago, Ill., assignor of one-third to P. W. Heermans, Brooklyn, N. Y. Globe for electric-arc lamps	570,446	Nov. 3	5	2	77	639
Bailey, Mark A., Butler, Ind. Hammock-horse	553,023	Jan. 14	976	236	74	197
Bailey, Samuel R., Amesbury, Mass. Thill-coupling	556,611	Mar. 17	2049	479	74	1544
Bailey, Sterling L., Chicago, Ill. Softening hard water	553,383	Jan. 21	1623	.....	74	331
Bailey, Thomas, New York, N. Y. Fireproof partition, ceiling, &c.	564,299	July 21	1868	438	76	375
Bailey, Thomas, New York, N. Y. Fireproof floor	570,863	Nov. 3	805	185	77	788
Bailey, Thomas, New York, N. Y. Fireproof door, door-frame, and window frame and shutter combination	570,895	Nov. 10	871	203	77	829
Bailey, William E., Beverly, and R. D. Burns, Wenham, assignors to R. H. Woodbury, Beverly, Mass. Sewing-machine	573,382	Dec. 15	2290	546	77	1749
Bailey, William H., Muncie, Ind. Furnace for heating metals	555,554	Mar. 3	122	28	74	1153
Bailey, William H., Piqua, Ohio. Reheating-furnace	571,258	Nov. 10	1489	350	77	943
Bailly, Emile, Nancy, France. Grinding-mill	568,289	Sept. 22	2729	655	76	1832
Bailor, Silas I., Geneva, Nebr. Two-row cultivator	571,146	Nov. 10	1312	305	77	910
Baily, Edward B. (See Rehlín, Charles J., assignor.)						
Bain, Forcé, Chicago, Ill. Oil-filter	569,159	Oct. 13	764	177	77	162
Bain, Forcé, assignor of one-half to J. P. Barrett, Chicago, Ill. Street-sweeper	571,891	Nov. 24	2597	616	77	1183
Bain, James H. (See Moon, Spake, and Bain.)						
Bain, Margaret, Glasgow, Scotland. Tea or coffee pot, saucepan, &c.	552,739	Jan. 7	431	109	74	82
Bain, William L., et al. (See Page, William C., assignor.)						
Baingo, Frank, et al. (See Heck, August, assignor.)						
Bair, Alvin and J., Tiffin, Ohio. Window-shade support	565,419	Aug. 11	848	199	76	703
Bair, Alvin, and A. E. Steinbrick, Tiffin, Ohio; said Steinbrick assignor to said Bair. Hot-air furnace	557,753	Apr. 7	421	99	75	80
Bair, Daniel M., Burns, Kans. Corn-harvester	558,251	Apr. 14	1309	319	75	265
Bair, Daniel M., assignor of one-half to G. W. Rickerd, Burns, Kans. Thill-coupling	562,367	June 23	2294	320	75	1862
Bair, Jonathan. (See Bair, Alvin and J.)				321		
Baird, Archie M., Topeka, Kans. Riveting-machine	556,656	Mar. 17	2110	493	74	1556
Baird, Archie M., Topeka, Kans. Riveting-machine	556,657	Mar. 17	2111	493	74	1557
Baird, Archie M., Topeka, Kans. Riveting-machine	571,503	Nov. 17	1912	456	77	1036
Baird, Charles O., et al. (See Criswell, James A., assignor.)						
Baird, Charles W., Millersburg, Iowa. Hay rake and loader	560,770	May 26	2635	605	75	1252
Baird, John P., Lockport, N. Y., assignor of one-third to J. Stetler, Philadelphia, Pa. Device for washing vehicles	570,890	Nov. 3	863	201	77	801
Baisley, Walter A., and C. W. Decker, Los Angeles, Cal. Combined pruning implement and fruit-picker	562,698	June 23	2844	690	75	1964
Bake, Cyrus F., Fullerton, Nebr. Car-coupling	554,970	Feb. 18	2050	489	74	923
Bake, Cyrus F., Fullerton, Nebr. Car-coupling	574,233	Dec. 29	3927	934	77	2083
Baker, Alfred T., et al. (See Brooks, Edward, Jr., assignor.)						
Baker, Arthur N., Logansport, Ind. Eyeglasses	565,420	Aug. 11	849	200	76	793
Baker & Burnett. (See Baker, William H., assignor.)						
Baker, Burton E., New Britain, Conn. Electric heater	572,467	Dec. 1	666	157	77	1405
Baker, C. (See Ingargiola, Augustus M., assignor.)						
Baker, Carr & Co. (See Baker, Joseph, assignor.)						
Baker, Charles A. (See Keyes and Baker.)						
Baker, Charles A. (See Keyes, Baker, and Bunn.)						
Baker, Charles A., Arkansas City, Kans. Grinding attachment for sewing-machines	553,275	Jan. 21	1430	346	74	297
Baker, Charles F. (See Curtis, George A., assignor.)						
Baker, Charles F., Boston, Mass. Electric-car truck	557,535	Apr. 7	5	2	75	3
Baker, Charles W., Montclair, N. J. Steam-separator	553,892	Feb. 4	153	32	74	535
Baker, Charles W., Montclair, N. J. Boiler	559,021	Apr. 28	2643	644	75	548
Baker, David, Sparrows Point, Md. Sliding-gate valve	559,926	May 12	1064	236	75	895
Baker, David, Melrose, Mass. Mariner's compass	568,227	Sept. 22	2631	632	76	1813
Baker, Francis S., Chicago, Ill. Pressure-alarm for gas-supply pipes to furnaces	554,016	Feb. 4	391	86	74	577
Baker, Francis S., Chicago, Ill. Pressure-alarm for gas-pipes	557,534	Apr. 7	3	1	75	3
Baker, Frank D., Knoxville, Iowa. Car-coupling	570,976	Nov. 10	1000	232	77	853
Baker, Frank L., assignor to Diamond Paper Bag Company, Wilmington, Del. Tube-machine	557,636	Apr. 7	195	49, 50	75	38
Baker, Frank R., et al. (See Gottschalk, Louis, assignor.)						
Baker, Gilbert L., Waterford, Cal. Permutation-padlock	573,805	Dec. 22	3077	731	77	1915
Baker, Harry B., Dighton, Mass. Eyelet-setting machine	567,287	Sept. 8	979	232	76	1476
Baker, Horace M., Carthage, Mo. Automatic locomotive signaling device	564,138	July 14	1588	372	76	313
Baker, Hubert C., Hartford, Conn. Gas-engine	563,249	July 7	5	1, 2, 3	76	3
Baker, Isaac F. (See Mansfield and Baker.)						
Baker, Jackson R., Jersey City, N. J., assignor to A. J. Weil, New York, N. Y. Car-axle box and bearing	572,517	Dec. 8	753	179	77	1437
Baker, James D., assignor to C. Fyfe, Montreal, Canada, H. C. and W. G. Roome, Jersey City, N. J. Mold	561,554	June 9	886	213	75	1563
Baker, John, Muscatine, Iowa. Can-capping machine	564,042	July 14	1412	329	76	277
Baker, John E. (See Thomas, Baker, and Jones.)						
Baker, John W., Philadelphia, Pa. Gas heater or furnace	552,504	Jan. 7	5	2	74	4
Baker, Jonathan U., Stoutsville, Ohio. Warp-beaming machine	556,172	Mar. 10	1225	286	74	1376
Baker, Joseph, assignor to Baker, Carr & Co., Andover, N. H. Plating or facing inferior with superior metals	552,979	Jan. 14	913	221	74	185
Baker, Joseph B., Naples, Tex. Type-writer attachment	566,289	Aug. 25	2404	590	76	1123
Baker, Joseph H., Brooklyn, N. Y. Steam-distributor for gas-generators	561,752	June 9	1242	294	75	1631
Baker, Manville W. (See Butterfield, Alvor, assignor.)						
Baker, Milo A., Los Angeles, Cal. Collapsible and adjustable mold-pattern	571,060	Nov. 10	1142	267	77	880
Baker, Nannie L., St. Louis, Mo. Adjustable trunk-tray	556,526	Mar. 17	1917	268	74	1520

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Baker, Robert, <i>et al.</i> (See Gartner, Alfred, assignor.)						
Baker, Scipio E., Springfield, Ohio. Trocar	564,581	July 28	2359	556	76	483
Baker & Sons, Joseph. (See Tupholme, Beeston, assignor.)						
Baker, William B., assignor of one-half to W. E. Klumbach, Shamokin, Pa. Car-fender	568,969	Oct. 6	434	97	77	83
Baker, William H. (See Depro and Baker.)						
Baker, William H., Pawtucket, assignor to Baker & Burnett, Providence, R. I. Sectional conductor for electric railways	555,470	Feb. 25	2979	710	74	1109
Baker, William R., Watertown, N. Y. Flushing device for water-closets	555,798	Mar. 3	516	125	74	1223
Baker, William R., Chicago, Ill. Harvester	563,727	July 14	835	199	76	172
Baker, William S. G., Baltimore, Md. Car-truck	553,297	Jan. 21	1479	355	74	305
Baker, William S. G., Baltimore, Md. Car-truck	553,298	Jan. 21	1479	355	74	305
Baker, William S. G., Baltimore, Md. Car-brake	566,052	Aug. 18	2015	489	76	1033
Baker, William S. G., Baltimore, Md. Car-brake	572,518	Dec. 8	754	180	77	1437
Bakewell, James K., Allegheny, Pa. Explosive projectile and firing same	572,400	Dec. 1	570	135	77	1386
Bakewell, James K., Allegheny, Pa. Explosive projectile and firing same	572,401	Dec. 1	572	135	77	1387
Bakke, Hans, and O. Nordley, St. Paul, Minn. Plow	568,558	Sept. 29	3209	773	76	1934
Balanced Locomotive and Engineering Company. (See Strong, George S., assignor.)						
Balch, Samuel W., Yonkers, N. Y. Means for propelling canal-boats, &c.	569,400	Oct. 13	1176	279	77	240
Baldrige, Herman, San Bernardino, Cal. Can-opener	566,265	Aug. 18	2361	579	76	1095
Baldt, Frederick, Chester, Pa. Anchor	570,420	Oct. 27	3051	722	77	615
Baldwin, A. Van Nest, <i>et al.</i> (See Higgins, Joseph C., assignor.)						
Baldwin, Chalkley B. (See Redmond and Baldwin.)						
Baldwin, Charles E., Newark, N. J. Can-opener	556,319	Mar. 10	1520	354	74	1431
Baldwin, Charles H., Auburn, N. Y. Hair curler	570,836	Nov. 3	760	173	77	780
Baldwin, Edwin J. (See Lee and Baldwin.)						
Baldwin, Ellory A., Upton, assignor to A. J. Cutler, Framingham, Mass. Drive-chain. (Reissue)	11,571	Sept. 29	3529	846	76	1996
Baldwin, Frank, Washington, D. C. Caisson and constructing same	559,116	Apr. 28	2813	631	75	582
Baldwin, Frank, Onondaga, Mich. Letter stamping and canceling machine	563,996	July 14	1333	311	76	263
Baldwin, George D., Passaic, N. J. Railway system	570,447	Nov. 3	6	2	77	640
Baldwin, George W. (See Rhind, Stoddard, and Baldwin.)						
Baldwin & Graham. (See Stephenson, Robert S., assignor.)						
Baldwin, Louis W., Jersey City, N. J. Sash-holder	556,397	Mar. 17	1665	389	74	1473
Baldwin, Louis W., Jersey City, N. J. Bouquet-holder	556,728	Mar. 24	2232	521	74	1597
Baldwin, Nelson S., and E. S. Goodwin, Spokane, Wash. Bill-file	557,754	Apr. 7	422	99	75	80
Baldwin, Ozro J., Youngsville, Pa. Valve	558,708	Apr. 21	2109	507	75	428
Baldwin, Thomas G. (See Peters, Henry, assignor.)						
Baldwin, William D. (See Van Vleet and Osborne, assignors.)						
Baldwin, William D., <i>et al.</i> (See Van Vleet and Hurd, assignors.)						
Baldwin, William J., Brooklyn, N. Y. Centrifugal fan	556,453	Mar. 17	1777	412	74	1495
Baliman, Robert R., <i>et al.</i> (See Flood, Benjamin P., assignor.)						
Balke, Robert C., Bloomington, Ill. Convertible lounge, &c.	559,927	May 12	1066	237	75	896
Balke, William C., Louisville, Ky. Platform-rocker	556,128	Mar. 10	1147	269	74	1362
Ball, Aaron T. (See Baucum and Ball.)						
Ball, Albert, assignor to Sullivan Machinery Company, Claremont, N. H. Drill-column	568,470	Sept. 29	3035	728 729	76	1904
Ball, Albert, Claremont, N. H., assignor to Sullivan Machinery Company, Claremont, N. H., and Chicago, Ill. Channeling-machine	555,633	Mar. 3	255	59, 60	74	1177
Ball, Albert, Claremont, N. H., assignor to Sullivan Machinery Company, Claremont, N. H., and Chicago, Ill. Drill-column	568,471	Sept. 29	3037	729	76	1904
Ball and Socket Fastener Company. (See Richardson, William S., assignor.)						
Ball-Bearing Car Wheel and Manufacturing Company. (See Wright and Hornsey, assignors.)						
Ball, Charles A., Washington, D. C. Safety device for railway-cars	562,881	June 30	3202	774 775	75	2051
Ball, Edward W., and L. E. Vacheron, Wood Haven, assignors to Lelance & Grosjean Manufacturing Company, New York, N. Y. Enameler's tripod	569,160	Oct. 13	766	178	77	162
Ball, Frederic J., Brooklyn, N. Y. Vehicle-wheel	566,556	Aug. 25	2913	711	76	1218
Ball, Herman F. (See Waitt and Ball.)						
Ball, Joseph P., Philadelphia, Pa. Rheostat-plate	558,252	Apr. 14	1316	321	75	266
Ball, Lorenzo D., Canton, Ohio. Combination-tool	561,957	June 16	1597	387	75	1717
Ball, Lorenzo D., and E. S. Barnes, Canton, Ohio. Vehicle-hub	570,448	Nov. 3	7	3	77	640
Ball, Samuel E., and E. E. Bowen, Dayton, Ohio. Match-safe	553,502	Jan. 28	1820	432	74	385
Ball, Sterling S. (See Tinsman and Ball.)						
Ball, Webster C., Cleveland, Ohio. Regulator for timepieces	565,955	Aug. 18	1849	450	76	1000
Ballain, Charles E., Emerson, Iowa. Currycomb	566,124	Aug. 18	2145	523	76	1056
Ballam, De Lacy E., assignor to P. J. Grace, Brooklyn, N. Y. Mop or brush	565,588	Aug. 11	1182	284	76	855
Ballam, De Lacy E., assignor to P. J. Grace, Brooklyn, N. Y. Brush	565,589	Aug. 11	1183	285	76	855
Ballam, De Lacy E., assignor to P. J. Grace, Brooklyn, N. Y. Sponge fabric and making same	565,590	Aug. 11	1185	285	76	855
Ballantine, Alexander T., assignor to Domestifroid Company, Cleveland, Ohio. Lubricator	554,105	Feb. 4	561	123	74	607
Ballantine, William D., <i>et al.</i> (See Beal, William C., assignor.)						
Ballard, Addison, and J. M. Harper, Chicago, Ill. Communion apparatus	561,854	June 9	1421	342	75	1663
Ballard, Calvert L., Fort Worth, Tex. Revolving book-holder	571,717	Nov. 17	2264	544	77	1101
Ballard, John L. (See Adams, Cyrus L., assignor.)						
Ballard, Mary E., Indianapolis, Ind. Catamenial sack	570,216	Oct. 27	2636	624	77	538
Ballard, Vernon H., assignor of one-half to H. A. Cook, Chippewa Falls, Wis. Soldering-block	567,674	Sept. 15	1641	396	76	1615
Ballat, Frank, <i>et al.</i> (See Conrad, Charles P., assignor.)						
Ballbach, Louis, Detroit, Mich. Thill-coupling	556,173	Mar. 10	1229	287	74	1377
Ballbach, Louis, Detroit, Mich. Windmill	566,961	Sept. 1	386	90	76	1356
Ballenger, Ben. <i>et al.</i> (See Wernitz, Frank E., assignor.)						
Ballenger, Benjamin, assignor of four-fifths to D. Ballenger, E. Glammier, F. E. Wernitz, Lockwood, and W. Allan, Golden City, Mo. Plow	568,153	Sept. 22	2506	603	76	1789
Ballenger, Daniel, <i>et al.</i> (See Ballenger, Benjamin, assignor.)						
Ballenger, Daniel, <i>et al.</i> (See Wernitz, Frank E., assignor.)						
Balleu, Thomas S., Stuart, Iowa. Badge	568,654	Sept. 29	3401	814	76	1971
Ballou, George F., New York, N. Y., assignor to A. B. Dick Company, Chicago, Ill. Pen-oil-sharpening machine	556,709	Mar. 17	2185	510 511	74	1571
Ballou, George W., New York, N. Y., and A. Seaver, Boston, Mass., assignors to United States Prism Glass Globe Company, of New York. Lamp-globe	570,896	Nov. 10	872	203	77	829
Balls, Philip T., Melbourne, Victoria. Knife attachment for linotype-machines	573,383	Dec. 15	2392	548	77	1749

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Balph, Charles A., Pittsburg, and E. P. S. Wright, Avalon, Pa. Fireproof floor and ceiling	557,100	Mar. 31	2875	687	74	1742
Balph, Charles A., Pittsburg, and E. P. S. Wright, Avalon, Pa. Fireproof construction	573,127	Dec. 15	1829	441	77	1666
Balsbaugh, John H. (See Horst, Harry W., assignor.)						
Balschun, Adolph, Jr., New York, N. Y. Railway-signal	570,837	Nov. 3	760	173	77	780
Balsley, George S., Detroit, Mich. Brick veneer	555,358	Feb. 25	2771	649	74	1071
Balsley, James R., Connellsville, Pa. Hatchet	569,161	Oct. 13	767	178	77	162
Balsley, James R., Connellsville, Pa. Ink-well	569,162	Oct. 13	768	179	77	162
Balsley, Joseph F., and F. C. Priestly, Denver, Colo. Rock-drill	572,855	Dec. 8	1341	322 323	77	1554
Balster, William. (See Anderson and Nelson, assignors.)						
Balthasar, Curt J., assignor of one-half to J. W. Fryer, New York, N. Y. Valve and elbow for hot-water radiators	563,120	June 30	3641	872	75	2139
Balz, Emil A., New York, N. Y., assignor of two-thirds to W. W. Lambert and J. E. Reburn, Philadelphia, Pa. Boiler-flue cleaner	557,299	Mar. 31	3251	779	74	1807
Balz, Emil A., New York, N. Y., assignor of two-thirds to W. W. Lambert and J. E. Reburn, Philadelphia, Pa. Flue-cleaner	560,830	May 26	2733	627	75	1272
Balzer, Emil, Chicago, Ill. Car-coupling	568,726	Oct. 6	4	1	77	3
Balzer, Emil, Chicago, Ill. Switch	568,727	Oct. 6	5	2	77	3
Balzer, Stephen M., New York, N. Y., assignor of one-half to W. H. Humphrey, Norfolk, Conn. Fare-register	556,955	Mar. 24	2619	615 616	74	1668
Balzer, Stephen M., New York, N. Y., assignor of one-half to W. H. Humphrey, Norfolk, Conn. Motor or engine	573,174	Dec. 15	1909	459	77	1681
Baumberger, Herman. (See Jones, Daniel W., assignor.)						
Bamford, George W., assignor to A. F. Cordes, Richmond, Va. Curtain fixture or support	571,184	Nov. 10	1368	319	77	921
Bamford, John W., Pascoag, R. I. Cap-spinning spindle	564,773	July 28	2687	638	76	543
Bammann, Johann, and M. Ulrich, assignors to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Blue dye	556,298	Mar. 10	1487		74	1424
Bancroft, Arthur C., Hartford, Conn. Powder-atomizer	553,701	Jan. 28	2171	514	74	449
Bancroft, George H. (See St. John, Enos F., assignor.)						
Bancroft, James E., and A. U. Betts, Toledo, Ohio. Vulcanizer for repairing bicycle-tires	567,185	Sept. 8	794	187	76	1444
Bancroft, John S. (See Sellers, Bancroft, and Barth.)						
Bancroft, John W., New York, N. Y. Awning-fixture	554,971	Feb. 18	2060	489	74	923
Bancroft, Sarah P., Boston, Mass. Candle-lamp	561,081	June 2	6	2	75	1368
Bane, A. Clark, et al. (See Minniss, Thomas S., assignor.)						
Bane, Joseph H., Barre, Mass. Sash-balance	557,940	Apr. 7	729	175	75	138
Banfield, Jose A. (See Sharpe and Banfield.)						
Banker, Alexander D., Troy, N. Y. Skate-sharpener	555,299	Feb. 25	2669	625	74	1052
Bannister, John, assignor to Coulter & McKenzie Machine Company, Bridgeport, Conn. Clamp for molders' use	554,972	Feb. 18	2061	490	74	923
Banwarth, William, Zell, S. D. Grain-drill	562,755	Jan. 23	2954	715	75	1987
Banwell, James, assignor of two-thirds to G. Caunter and F. R. Wall, Cleveland, Ohio. Machine for making rims for pneumatic wheels	571,080	Nov. 10	1189	279	77	888
Bany, Jacob, assignor of one-half to J. J. Bany, St. Henry's, Ohio. Washing-machine	559,659	May 5	527	121	75	783
Bany, Jacob J. (See Bany, Jacob, assignor.)						
Banzet, Charles A., and C. H. Berger, Elm City, Kans. Fruit-gatherer	565,101	Aug. 4	260	62	76	664
Baptist, William, Litcher, La. Apparatus for skidding logs	561,855	June 9	1422	342 343	75	1663
Barbeau, Louis E., London, England. Grain-drying apparatus	556,129	Mar. 10	1148	270	74	1362
Barbeau, Louis E., London, England. Apparatus for stoning and washing grain	567,956	Sept. 22	3119	511	76	1719
Barbee, Harry C., assignor to E. C. Atkins & Company, Indianapolis, Ind. Saw	564,582	July 28	2360	556	76	483
Barbee, Thomas M. (See Huncilman and Barbee.)						
Barber Asphalt Paving Company. (See Greene, Carleton, assignor.)						
Barber Asphalt Paving Company. (See Jennings, Wellington M., assignor.)						
Barber Asphalt Paving Company. (See Laster, Harry W., assignor.)						
Barber, Henry A., Watertown, N. Y. Centrifugal pump	557,300	Mar. 31	3251	780	74	1807
Barber, Henry S., Hopkinton, R. I. Balance-escapement for timepieces	569,852	Oct. 20	1998	476	77	404
Barber, Hiram, Chicago, Ill. Whiffletree	558,024	Apr. 14	927	230	75	191
Barber, Hiram, Chicago, Ill. Spring draft attachment for vehicles	558,143	Apr. 14	1129	275	75	231
Barber, Hiram, Chicago, Ill. Spring draft attachment for wagons	559,883	May 12	962	219	75	881
Barber, Hiram, Chicago, Ill. Whiffletree	562,063	June 16	1778	430	75	1750
Barber, Hiram, Chicago, Ill. Spring draft attachment for vehicles	563,437	July 7	343	77	76	67
Barber, John C., St. Paul, Minn. Car-truck	565,421	Aug. 11	851	200 201	76	794
Barber, John C., St. Paul, Minn. Car-truck	569,077	Oct. 6	619	141	77	119
Barber, John C., St. Paul, Minn. Car-truck	571,914	Nov. 24	2649	627 628	77	1192
Barber, John C., St. Paul, Minn. Car-truck	573,636	Dec. 22	2794	661	77	1863
Barber, Luther A. (See Twiss and Barber.)						
Barbey, Francis A., et al. (See Whitceter and Fitz Gibbons, assignors.)						
Barbour, Lucy A., Providence, and J. J. Edwards, Pawtucket, R. I. Hat-fastener	570,150	Oct. 27	2519	597	77	515
Barbour, Thomas P., San Antonio, Tex. Treating ores	571,468	Nov. 17	1838	438	77	1024
Barbour, Thomas S., Elizabethtown, N. Y. Magic lantern	574,054	Dec. 29	3551	847 848	77	2016
Barcafer, Francis W., Kansas City, Mo. Sectional horseshoe	560,564	May 19	2215	506	75	1157
Barcalo, Edward J., Buffalo, N. Y. Bedstead	567,731	Sept. 15	1739	416	76	1633
Barclay, Frank, Beatrice, Nebr. Antifriction-clip for reapers and mowers	572,402	Dec. 1	573	136	77	1387
Barclay, Howard, assignor of one-half to W. M. Snyder, Nortonville, Kans. Ironing-board	555,471	Feb. 25	2981	710	74	1110
Barclay, John. (See Watsn, N. George A., assignor.)						
Barcus, James S., New York, N. Y. Coin-controlled apparatus	572,496	Dec. 1	712	170 171	77	1413
Bardelli, Franco, and K. Danielovsky, Buda-Pesth, Austria-Hungary. Parallel-ruler	561,474	June 2	734	181	75	1518
Bardons, George C. (See Oliver and Bardons.)						
Bardons, George C., J. G. Oliver, and G. W. Drake, Cleveland, Ohio. Duplex forming machine	553,802	Jan. 28	2333	554 555	74	480
Barclashar, Guy E., Sandusky, Ohio. Churn-cover	562,699	June 23	2845	690	75	1964
Barclashar, Guy E., and A. Heiberger, Sandusky, Ohio. Device for converting motion	571,939	Nov. 24	2690	636	77	1202
Barclisley, Joseph, Montclair, N. J. Combined door spring and check	567,121	Sept. 8	691	161	76	1425
Bardwell, Edwin A., Jr., Shelburne Falls, Mass. Shingling-bracket	574,055	Dec. 29	3553	848	77	2017
Bare, Harry M. (See Potts and Bare.)						
Bare, Kendig H., Lancaster, Pa. Watchmaker's roller-remover	560,461	May 19	2054	468	75	1128
Bärenz, Adam, Newark, N. J. Baker's oven	557,536	Apr. 7	8	2	75	4
Barfoot, John A. A. (See Johnson, Josiah, assignor.)						
Barger, Robert N., Hopedale, Ill. Farm-gate	565,422	Aug. 11	853	201	76	794

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Barger, William M., Webster City, Iowa. Reel-carrier	567,213	Sept. 8	836	198	76	1452
Barhydt, James A., assignor of one-half to C. E. Turner, Rochester, N. Y. Machine for operating fine-expanders	564,139	July 14	1589	373	76	313
Baringer, Irvin Y., Perkasio, Pa. Clothes-pin	561,475	June 2	735	181	75	1509
Baringer, Joseph, Akron, Ohio. Track-cleaner	553,823	Feb. 4	3	1, 2	74	505
Barkalow, Edgar A., and N. Crawford, Kokomo, Ind. Microphone-transmitter	571,504	Nov. 17	1913	456	77	1037
Barkdull, J. William, <i>et al.</i> (See Murphy, Thomas P., assignor.)						
Barker, Arthur, assignor to Grover & Company, Limited, London, England. Vaporizer for oil-engines	566,125	Aug. 18	2147	523	76	1057
Barker, Carter, assignor of one-half to W. J. Hay, Oshkosh, Wis. Clamping device for holding collars or cuffs	568,712	Sept. 29	3498	837	76	1990
Barker, Charles E., St. David, Ill., assignor to What Cheer Drill and Miners Tool Company. Pick	572,856	Dec. 8	1344	324	77	1554
Barker, Charles V., Chicago, Ill. Wood-sawing machine	552,505	Jan. 7	7	2, 3	74	4
Barker, Delbert L., Providence, R. I. Tube-well	566,371	Aug. 25	2569	627	76	1153
Barker, Edwin A. and H. F., Athens, Ky. Wire fence	561,555	June 9	887	213	75	1563
Barker, Frank A. (See Coles and Barker.)						
Barker, Frank C., Columbus, and G. W. S. Austin, Kenton, Ohio. Car-coupling	553,224	Jan. 21	1333	325	74	280
Barker, Hugh F. (See Barker, Edwin A. and H. F.)						
Barker, Irving, Springfield, Ill. Ball and roller bearing for vehicles	557,941	Apr. 7	731	175	75	138
Barker, James. (See Walton, Barker, and Van Dyke.)						
Barker, John A., Pasadena, assignor to F. J. Moll, Sr., Los Angeles, Cal. Head-rest	569,078	Oct. 6	621	141	77	119
Barker, John F., Springfield, Mass. Apparatus for carbureting air	560,388	May 19	1921	439	75	1105
Barker, John F., Springfield, Mass. Signaling apparatus	560,675	May 26	2469	566	75	1220
Barker, John T., Wallingford, Conn. Dental instrument	571,965	Nov. 24	2731	645	77	1209
Barker, Joshua. (See Smith and Barker.)						
Barker, Thomas J., <i>et al.</i> (See Clifton, Thomas, assignor.)						
Barker, Vernon T., trustee. (See Cooney, Luke, Jr., assignor.)						
Barler, Augustus C., Chicago, Ill. File-box or document-case	567,633	Sept. 15	1574	379	76	1600
Barler, Richard O., assignor to A. C. Barler Manufacturing Company, Chicago, Ill. Bicycle-saddle	567,634	Sept. 15	1575	379	76	1601
Barlow, Arthur E., assignor to Wright & Colton Wire Cloth Company, Worcester, Mass. Cop-holder for wire-netting machines	554,358	Feb. 11	1001	231	74	705
Barlow, Henry C., assignor of one-third to A. E. Miller, Converse, Ind. Wrench	573,637	Dec. 22	2796	061	77	1864
Barlow, John H., New Haven, Conn. Cartridge-shell crimper	553,024	Jan. 14	978	236	74	197
Barlow, John H., New Haven, Conn. Paper-cartridge crimper	566,126	Aug. 18	2147	523	76	1057
Barlow, John W., assignor to O. A. Miller, Brockton, Mass. Last	568,326	Sept. 29	2794	671	76	1859
Barlow, Lewis M., Donaldsonville, La. Boiler	573,195	Dec. 15	1954	470	77	1683
Barlow Manufacturing Company. (See Bond and Barlow, assignors.)						
Barlow Manufacturing Company. (See McGann, Thomas F., assignor.)						
Barlow-Massicks, Thomas G., Prescott, Ariz. Ter. Amalgamator for separating and saving gold	554,902	Feb. 18	1949	458	74	902
Barlow-Massicks, Thomas G., Prescott, Ariz. Ter. Washer for auriferous gravel, &c	565,151	Aug. 4	375	87	76	687
Barlow-Massicks, Thomas G., Prescott, Ariz. Ter. Amalgamator	565,152	Aug. 4	377	87	76	688
Barlow, Thomas L. (See Bond and Barlow.)						
Barnard, Charles A. (See Ewart, Philo C., assignor.)						
Barnard, Charles A. (See Magill, Jerome B., assignor.)						
Barnard, De Lonson E., Beloit, Wis. Windmill-tower	555,799	Mar. 3	517	126	74	1224
Barnard, De Lonson E., Beloit, Wis. Safety driving-clutch	565,415	Aug. 4	836	197, 198	76	772
Barnard, De Lonson E., Beloit, Wis. Grinding-mill	569,571	Oct. 13	1481	348, 349	77	295
Barnard, De Lonson E., Chicago, Ill. Wind-wheel	565,414	Aug. 4	834	197	76	771
Barnard, Fayette, assignor to National Cash Register Company, Dayton, Ohio. Transferring and resetting mechanism for cash-registers	570,196	Oct. 27	2596	618	77	531
Barnard, Frank J., assignor of two-thirds to J. C. Moore and J. D. Atkinson, Seattle, Wash. Magnetic separator	560,184	May 19	1547	350	75	1040
Barnard, Frank J., J. C. Moore, and J. D. Atkinson, Seattle, Wash. Magnetic extracting and separating machine	553,446	Jan. 21	1717	409	74	350
Barnard, George A., New York, N. Y. Steam-engine	571,740	Nov. 24	2327	556	77	1132
Barnard, George A., New York, N. Y., assignor to Paul Steam System Company, of Maine. Steam heating apparatus	563,904	July 14	1171	275	76	234
Barnard, George E., Fitchburg, assignor to American Postal Machines Company, Boston, Mass. Mail-marking machine	569,780	Oct. 20	1881	447	77	322
Barnard, Henry H. (See Sanford and Barnard.)						
Barnard & Leas Manufacturing Company. (See Cornwall, John B., assignor.)						
Barnard, Sadie P., Rochester, N. Y. Educational appliance	560,964	May 26	2979	684	75	1318
Barnedollar, Lizzie S., Trinidad, Colo. Thermometer for ovens	571,211	Nov. 10	1409	330	77	929
Barnes, Amanda, <i>et al.</i> (See Voegtlein, John, assignor.)						
Barnes, Arthur O., Moore Park, Mich. Antifriction-bearing	554,570	Feb. 11	1354	317	74	773
Barnes, Arthur S. (See Skinner, Perry R., assignor.)						
Barnes, Benjamin F., Rockford, Ill. Pulley-facing machine	553,225	Jan. 21	1340	325	74	280
Barnes, Benjamin F., assignor to W. F. & John Barnes Company, Rockford, Ill. Belt-fastener	574,234	Dec. 29	3928	934	77	2083
Barnes, Charles O. (See Barnes, Lucien, Sr., and C. O.)						
Barnes, David L., Chicago, Ill. Electric rack-locomotive	564,861	July 28	2834	677	76	569
Barnes, David L., Chicago, Ill. Truck	567,444	Sept. 8	1260	305	76	1527
Barnes, David L., Chicago, assignor to Fox Solid Pressed Steel Company, Joliet, Ill. Brace-pocket	553,048	Jan. 14	1018	249	74	205
Barnes, Edward. (See Davidson, Lewis F., assignor.)						
Barnes, Edward. (See Gregory, James C., assignor.)						
Barnes, Ewing S. (See Ball and Barnes.)						
Barnes, Frederick E., Fair Haven, Vt. Rein-holder	572,148	Dec. 1	93	20, 21	77	1295
Barnes, George L., North Haven, Conn. Cash register and indicator	567,066	Sept. 1	580	136, 137	76	1392
Barnes, George L., North Haven, Conn. Cash indicating and registering apparatus	568,728	Oct. 6	7	2, 3	77	4
Barnes, George L., Montowese, Conn. Cash register and indicator	568,081	Sept. 22	2370	573, 574	76	1763
Barnes, George L., Montowese, Conn. Cash register and indicator	573,435	Dec. 22	2415	575, 576	77	1789
Barnes, George W., <i>et al.</i> (See Voegtlein, John, assignor.)						
Barnes, Henry, New Haven, Conn. Tool for dampening fold-lines of collars	555,490	Mar. 3	9	3	74	1132
Barnes, Ishmael J., Decatur, Iowa. Bank-fixture	561,753	June 9	1243	294	75	1631
Barnes, Jermain P., Rock Stream, N. Y. Hand-strap for street-cars	559,022	Apr. 28	2644	644	75	548

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Barnes, Jermain P., Rock Stream, N. Y. Holding-strap for street-cars	560,185	May 19	1548	350	75	1040
Barnes, John. (See Gregory, James C., assignor.)						
Barnes, John, assignor to W. F. & John Barnes Company, Rockford, Ill. Gage for wood-sawing machines	556,658	Mar. 17	2112	493	74	1557
Barnes, John N., Bunker Hill, Ill. Feed-cutter	563,006	June 30	3428	825	75	2099
Barnes, John W., Rockland, Me. Station-indicator	561,476	June 2	736	181	75	1509
Barnes, Joseph W., San Francisco, Cal. Machine for reducing bituminous or asphaltic compounds	568,596	Sept. 29	3293	790	76	1950
Barnes, Lucien, Sr., and C. O., Syracuse, N. Y. Bicycle-frame	563,728	July 14	838	199	76	172
Barnes, Lucien, Sr., and C. O., Syracuse, N. Y. Crank-shaft for bicycles	563,729	July 14	839	200	76	173
Barnes, Lucien, Sr., and C. O., Syracuse, N. Y. Wheel-hub	563,730	July 14	840	200	76	173
Barnes, Lucien, Sr., and C. O., Syracuse, N. Y. Bicycle handle-bar and handle-bar-stem attachment	568,082	Sept. 22	2384	575	76	1766
Barnes, Luther H., Nemaha, Nebr. Wrench	572,857	Dec. 8	1346	324	77	1554
Barnes Manufacturing Company. (See Johnson, Daniel, assignor.)						
Barnes, Monroe, Bloomington, Ill. Coin-controlled apparatus	567,761	Sept. 15	1787	429	76	1642
Barnes, Preston B., Hubbard City, Tex. Dental-plate-polishing tool	569,535	Oct. 13	1403	311	77	281
Barnes, Thomas, assignor of one-half to J. Mahoney, Rawlins, Wyo. Safety-vault for banks.	554,411	Feb. 11	1097	255	74	724
Barnes, Willis W. (See Haberer, Charles H., assignor.)						
Barnett, M. V., et al. (See Bidwell, Alonzo, assignor.)						
Barnett, William H. (See Welch, Michael I., assignor.)						
Barnett, William H., Newark, N. J. Shuttle for sewing-machines	560,292	May 19	1746	397	75	1075
Barney, Albert F., Laconia, N. H. Blind operator and lock	564,180	July 21	1679	393	76	341
Barney, E. S., et al. (See Strain, Robert R., assignor.)						
Barney, Edward S., assignor of one-third to A. T. Dewey, San Francisco, Cal. Adjustable sliding and swinging window-sash	569,146	Oct. 6	733	172	77	139
Barney, Everett H., Springfield, Mass. Clamping mechanism for skates	565,715	Aug. 11	1404	342	76	897
Barney, Finis M., Elm Creek, Nebr. Power-transmitting gear	572,593	Dec. 8	889	215	77	1466
Barney, George L., Indianapolis, Ind. Keyless lock	564,268	July 21	1222	427	76	308
Barney, Thomas R., San Francisco, Cal. Implement for measuring and weighing powder charges	561,754	June 9	1244	295	75	1631
Barney, Thomas R., San Francisco, Cal. Multiple circuit-closer for electric trap-pulling devices	568,013	Sept. 22	2227	538	76	1738
Barnhart, Harry J. (See King and Barnhart.)						
Barnhart, Harvey P. and S. L., assignors to Thatcher Manufacturing Company, Potsdam, N. Y. Bottle-stopper	561,191	June 2	213	51	75	1408
Barnhart, Harvey P. and S. L., assignors to Thatcher Manufacturing Company, Potsdam, N. Y. Bottle-stopper	564,732	July 28	2611	622	76	529
Barnhart, Samuel L. (See Barnhart, Harvey P. and S. L.)						
Barnhill, Alva H., and T. I. Thurman, Altoona, Kans. Gate	570,362	Oct. 27	2935	697	77	593
Barnhurst, James I. (See Wurster, Charles F., assignor.)						
Barningham, Delos W. (See Cleveland, Sylvester E., assignor.)						
Barnsdale, Walter, Plover, Wis. Combined steam and explosion engine	571,147	Nov. 10	1315	{ 306 307 }	77	911
Barnum, Russell S. (See Goodrich and Barnum.)						
Barnum, Russell S., Chicago, assignor to F. L. Goodrich, Belvidere, Ill. Ruffler	564,359	July 21	1971	463	76	394
Barnum, Russell S., assignor to F. L. Goodrich, Chicago, Ill. Hemmer for sewing-machines.	569,368	Oct. 13	1127	268	77	232
Barnwell Machine Company. (See Barnwell, Stephen, assignor.)						
Barnwell, Stephen, assignor to Barnwell Machine Company, Limited, Manchester, England. Small-ware loom	556,241	Mar. 10	1349	{ 317 318 676 677 678 679 680 681 }	74	1398
Baron, Bernhard, New York, N. Y. Continuous-cigarette machine	555,417	Feb. 25	2864	{ 678 679 680 681 }	74	1089
Baron, Bernhard, New York, N. Y. Cigarette-making machine	555,418	Feb. 25	2873	681	74	1090
Baron, Bernhard, New York, N. Y. Method of and apparatus for manufacturing cigarettes.	555,419	Feb. 25	2874	{ 681 682 }	74	1091
Baron, Bernhard, New York, N. Y. Cigarette	555,420	Feb. 25	2876	683	74	1091
Baron, Charles M. D., New York, N. Y. Sanitary pail	567,446	Sept. 8	1264	306	76	1527
Baron, Julius. (See Cory, Randolph P., assignor.)						
Barr, Archibald, Glasgow, Scotland, and W. Stroud, Leeds, England. Range-finder	567,675	Sept. 15	1643	{ 396 397 }	76	1615
Barr, Benjamin H. (See Stewart, William H., assignor.)						
Barr, Carl G. O., Mantorp, Sweden. Apparatus for producing motive power, &c., by means of heat of the sun	561,755	June 9	1246	{ 295 296 297 }	75	1632
Barr Cash and Package Carrier Company. (See Barr, Samuel W., assignor.)						
Barr Cash and Package Carrier Company. (See Barr and Weaver, assignors.)						
Barr Cash and Package Carrier Company. (See Weaver, Henry M., assignor.)						
Barr, David J. (See Maines, John B., assignor.)						
Barr, Fletcher L. (See Mills, Ratcliff, and Barr.)						
Barr, Frederic, assignor of one-third to A. Garrison, Jr., Paterson, N. J. Orange-peeler	559,961	May 12	1117	250	75	905
Barr, Henry M., Roulette, Pa. Millstone	565,873	Aug. 18	1695	415	76	969
Barr, James M. (See Kinyon, Alonzo G., assignor.)						
Barr, James M. (See Noyes, Henry F., assignor.)						
Barr, John, assignor of three-fourths to G. M. Hughes and J. Wheatfield, Baltimore, Md. Thill-retainer	563,905	July 14	1174	276	76	235
Barr, John H., assignor of two-thirds to J. W. Naylor and W. C. Harris, Kansas City, Kans. Mail-crane	556,242	Mar. 10	1351	{ 318 319 }	74	1398
Barr, John H., assignor of fifty-one one-hundredths to C. V. Fyke, Kansas City, Mo. Mail-stamping machine	573,128	Dec. 15	1830	{ 442 443 }	77	1666
Barr, John H., Kansas City, and J. W. Naylor, Topeka, assignors to Safety Mail Crane Company, Emporia, Kans. Mail-crane and hanger	564,140	July 14	1592	373	76	314
Barr, John U., Jr., Pittsburg, assignor of one-half to D. J. Richardson, Allegheny, Pa. Illuminated-sign apparatus	573,436	Dec. 22	2429	576	77	1792
Barr, Samuel W. (See Weaver and Barr.)						
Barr, Samuel W., assignor to Barr Cash and Package Carrier Company, Mansfield, Ohio. Pneumatic-despatch apparatus	570,421	Oct. 27	3052	723	77	615
Barr, Samuel W., and H. M. Weaver, assignors to Barr Cash and Package Carrier Company, Mansfield, Ohio. Cash and package carrier	570,422	Oct. 27	3055	{ 723 724 }	77	615
Barr, William C., Jersey City, N. J. Air-lock for caissons	568,655	Sept. 29	3402	814	76	1971
Barraclough, Thomas C., and T. J. Heaton, London, England. Machine for extracting fiber from fiber-bearing plants	568,327	Sept. 29	2795	{ 672 673 }	76	1860

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Barratt, Oliver, New York, N. Y. Floor-drainage valve	565,320	Aug. 4	682	164	76	742
Barratt, William T., assignor to C. Cooper, Bennington, Vt. Cam and work-presser for knitting-machines	572,690	Dec. 8	1059	258	77	1500
Barré, Joseph, assignor to S. Barré, New York, N. Y. Electric running-light and signal-lantern for ships	559,048	Apr. 28	2691	$\left\{ \begin{smallmatrix} 655 \\ 656 \end{smallmatrix} \right\}$	75	556
Barré, Sophia. (See Barré, Joseph, assignor.)						
Barrett, Addison D., Norfolk, Va. Blowpipe	570,656	Nov. 3	450	106	77	723
Barrett, Albert N., Los Angeles, Cal. Attaching device for rubber heels	562,113	June 16	1869	453	75	1766
Barrett, Alfred, assignor of one-half to L. W. Hill and G. W. Edgerton, Puyallup, Wash. Baling-press	565,666	Aug. 11	1319	318	76	881
Barrett, Charles L., Allegan, Mich. Bicycle-path-excavating machine	571,915	Nov. 24	2652	628	77	1193
Barrett, James. (See Woodward, Erastus, assignor.)						
Barrett, James, Boston, Mass. Water-closet seat and hinge	564,583	July 28	2361	556	76	483
Barrett, John A., Brooklyn, N. Y., assignor to Standard Underground Cable Company, Pittsburg, Pa. Wire-twisting machine	555,146	Feb. 25	2396	$\left\{ \begin{smallmatrix} 588 \\ 569 \end{smallmatrix} \right\}$	74	1000
Barrett, John A., Brooklyn, N. Y., assignor to Standard Underground Cable Company, Pittsburg, Pa. Wire-twisting machine. (Reissue)	11,539	May 19	2407	551	75	1190
Barrett, John A., Rutland, Vt., assignor to American Bell Telephone Company, Boston, Mass. Multiple-station telephone-circuit	569,401	Oct. 13	1179	280	77	241
Barrett, John F., Milford, Mass. Street-railway rail	556,799	Mar. 24	2364	556	74	1621
Barrett, John P. (See Bain, Forée, assignor.)						
Barrett, John P. (See Mehren, Jacob F., assignor.)						
Barrett, John P., Chicago, Ill. Trolley-protector for firemen	555,634	Mar. 3	259	60	74	1177
Barrett, John P., Chicago, Ill. Electrically-operated water-supply system	571,328	Nov. 17	1612	383	77	982
Barrett, Josiah, Bellevue, Pa. Tool for handling drill-bits, &c.	561,305	June 2	427	106	75	1452
Barrett, Josiah, Bellevue, Pa. Rack for oil-well jacks	574,056	Dec. 29	3554	848	77	2017
Barrett, Max E., assignor to Chicago Telephone Company, Chicago, Ill. District alarm system	555,491	Mar. 3	11	3 4	74	1132
Barrett, Oliver D. (See Dion, Charles, assignor.)						
Barrett, Samuel, Keighley, England. Washing and starching machine	567,574	Sept. 15	1476	353	76	1582
Barrett, Thomas, Boston, Mass., assignor to Goodyear Shoe Machinery Company, Portland, Me. Lasting-machine	558,026	Apr. 14	932	231	75	193
Barrett, Thomas J., New Orleans, La. Puzzle	570,363	Oct. 27	2936	697	77	593
Barrett, Zephaniah A. (See Creveling, William C., assignor.)						
Barrett, Zephaniah A., Chicago, Ill. Box	573,753	Dec. 22	2996	710	77	1900
Barrientos, Francisco, assignor of two-fifths to F. Avila, V. San Juan Bautista, Mexico. Musical instrument	567,447	Sept. 8	1265	306	76	1528
Barrier, John D., Mount Pleasant, N. C. Heating and ventilating stove	564,817	July 28	2759	656	76	554
Barrière, Prosper, Paris, France. Luminous material for incandescent gas-lighting	567,571	Sept. 8	1461	.....	76	1563
Barringer, Paul. (See Miller and Barringer.)						
Barroll, Joseph R., Chicago, Ill. Legging	560,831	May 26	2734	628	75	1272
Barron, Ernest R., et al., executors. (See Sholes, Christopher L., assignor.)						
Barron, Moses J., assignor of one-half to J. J. Illian, Milwaukee, Wis. Window-cleaner	559,023	Apr. 28	2646	644	75	548
Barroa, Walter J., Brooklyn, assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type-writing machine	557,755	Apr. 7	424	99	75	80
Barron, Walter J., Brooklyn, N. Y., assignor to Union Typewriter Company, of New Jersey. Type-writing machine	559,071	Apr. 28	2727	$\left\{ \begin{smallmatrix} 663 \\ 664 \\ 343 \end{smallmatrix} \right\}$	75	563
Barron, Walter J., Brooklyn, assignor to Union Typewriter Company, New York, N. Y. Type-writing machine	565,716	Aug. 11	1405	$\left\{ \begin{smallmatrix} 344 \end{smallmatrix} \right\}$	76	897
Barron, William E. (See Bromley, Daniel W., assignor.)						
Barrow, John T., Chicago, Ill. Hook and eye for suspender-ends	563,731	July 14	841	200	76	173
Barrow, Samuel, Kempton, assignor to F. B. Hart and J. G. Brown, Lafayette, Ind. Blower	573,196	Dec. 15	1954	470	77	1688
Barrows, Charles H., Willimantic, Conn. Motor-vehicle	564,584	July 28	2362	$\left\{ \begin{smallmatrix} 556 \\ 557 \end{smallmatrix} \right\}$	76	483
Barrows, Charles H., Willimantic, Conn. Motor-vehicle	567,445	Sept. 8	1261	$\left\{ \begin{smallmatrix} 305 \\ 306 \end{smallmatrix} \right\}$	76	1527
Barrows, Elvin S., Clarendon, Vt. Wire-stretcher	568,829	Oct. 6	194	47	77	39
Barrows, Fred B., Duluth, Minn. Dredging-machine	552,810	Jan. 7	590	143	74	110
Barrows, Gertrude W. (See Barrows, John F., assignor.)						
Barrows & Greely et al. (See Ryan, George H., assignor.)						
Barrows, John F., assignor to G. W. Barrows, Saginaw, Mich. Music-cabinet	574,057	Dec. 29	3556	849	77	2017
Barrows, William E. (See Rudolph, William F., assignor.)						
Barry, Fannie G. (See Barry, Richard F., assignor.)						
Barry, James J. (See Mitchell, Patrick J., assignor.)						
Barry, Jefferson D., assignor of one-half to T. S. Clark, Marlin, Tex. Car-coupling	557,942	Apr. 7	732	176	75	138
Barry, Nicholas, Jr., Muscatine, Iowa. Flashing	558,025	Apr. 14	931	230	75	192
Barry, Richard F., assignor to F. G. Barry, Newton, Mass. Eyeletting-machine	562,368	June 23	2295	558	75	1262
Barselou, Alexandre, assignor of one-half to L. N. Marcil, Cohoes, N. Y. Rocker and shoe-connection for loom picker-sticks	570,364	Oct. 27	2938	$\left\{ \begin{smallmatrix} 697 \\ 698 \end{smallmatrix} \right\}$	77	593
Barsotti, Charles. (See Giacinto, Ferraud, assignor.)						
Barstow, H. M. (See Painter, Arthur, assignor.)						
Barstow, William S., Brooklyn, N. Y., and R. Lindsay, Cleveland, Ohio. Automatic electric switch	561,958	June 16	1598	$\left\{ \begin{smallmatrix} 387 \\ 388 \end{smallmatrix} \right\}$	75	1717
Bartel, Walter H., and W. A. Lewis, Portland, Oreg. Rotary air-pump	561,192	June 2	215	52	75	1409
Bartelmes, Louis, Brooklyn, N. Y. Hinge	573,197	Dec. 15	1956	470	77	1689
Bartels, Henry W. (See Shumate and Bartels.)						
Bartelt, Henry. (See Eckhardt, Heinrich, assignor.)						
Barth, Carl G. (See Sellers, Bancroft, and Barth.)						
Barth, William, Gypsum, Colo. Toy	557,756	Apr. 7	425	100	75	80
Barthelemy, Aristide L. (See Barthelemy, Louis J. and A. L.)						
Barthelemy, Aristide L. and L. J., New Orleans, La. Filter-screen	558,341	Apr. 14	1460	359	75	294
Barthelemy, Louis J. (See Barthelemy, Aristide L. and L. J.)						
Barthelemy, Louis J. and A. L., New Orleans, La. Filter	563,639	July 7	674	158	76	127
Bartholomew Company. (See Stutsman, Reuben O., assignor.)						
Bartholomew, John B., Peoria, Ill. Straw-stacker	555,066	Feb. 25	2250	537	74	971
Bartholomew, John B., Peoria, Ill. Straw-stacker	556,487	Mar. 17	1829	$\left\{ \begin{smallmatrix} 426 \\ 427 \end{smallmatrix} \right\}$	74	1505
Bartholomew, John B., Des Moines, Iowa. Extensible pole for separators	574,297	Dec. 29	4027	956	77	2102
Bartholomew, William S. (See Mosher and Bartholomew.)						
Bartholomew, William S., Chicago, Ill. Electric-arc lamp	552,874	Jan. 7	712	173	74	133
Bartlett, Austin B. (See Lemon and Bartlett.)						
Bartlett, Charles, Pomona, Cal. Collar-pad or bridge-support for harness	568,890	Oct. 6	300	69	77	58
Bartlett, Edward C., assignor to E. M. Borne and W. Bonsor, Lorain, Ohio. Bicycle-saddle	560,963	May 26	2977	$\left\{ \begin{smallmatrix} 683 \\ 684 \end{smallmatrix} \right\}$	75	1317

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Bartlett, Granville, Rushville, Ind. Rein-holder.....	553,772	Jan. 28	2289	542	74	471
Bartlett, Granville, Rushville, Ind. Clothes-rack.....	555,843	Mar. 3	591	141	74	1237
Bartlett, Granville, Rushville, Ind. Pencil-holder.....	563,121	June 30	3642	872	75	2139
Bartlett, Hayward & Co. (See Austin, John T., assignor.)						
Bartlett, Henry F., St. Louis, Mo. Stove.....	557,537	Apr. 7	9	3	75	4
Bartlett, James, Cleveland, Ohio. Air-heating apparatus.....	562,565	June 23	2633	637 638	75	1926
Bartlett, James F., Chicago, Ill. Bicycle-skate.....	560,151	May 12	1477	333	75	975
Bartlett, John T. (See Littlefield, Irving O., assignor.)						
Bartlett, Stephen A., Demarest, N. J. Puzzle.....	553,824	Feb. 4	5	2	74	506
Bartlett, Charles A., Memphis, Tenn. Speaking-tube.....	553,825	Feb. 4	6	2	74	506
Bartoletti, Peter, Monongahela City, Pa. Press.....	563,122	June 30	3643	872 873 874	75	2140
Barton, James, assignor to himself, H. S. Blanchard, Clearwater, Mont., and S. J. Morriss, Atlanta, Tex. Steam-engine.....	571,034	Nov. 10	1106	258 259	77	873
Barton, John C., Port Huron, Mich. Railway cross-tie.....	571,329	Nov. 17	1614	364	77	982
Bartusch, Oswald, Brooklyn, assignor to W. A. Force & Co., New York, N. Y. Numbering-head.....	573,175	Dec. 15	1914	459	77	1681
Barzee, Charlie W., Wasco, Oreg. Straw-burning stove.....	553,148	Jan. 14	1195	291	74	240
Basch, David, New York, N. Y. Cap for bicycle-valves.....	553,825	Aug. 11	1598	391	76	933
Basch, David, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Dress-shield.....	569,599	Oct. 20	1541	361	77	321
Bascom, Austin T., Sidney, Ohio. Bicycle-crank attachment.....	558,463	Apr. 14	1683	405	75	335
Bascom, Austin T., Sidney, Ohio. Bicycle-pedal attachment.....	558,464	Apr. 14	1685	405	75	336
Basden, Sidney E., Medford, Mass. Curtain-support for buggies.....	565,321	Aug. 4	683	164	76	742
Bashore, Samuel R. (See Kepler and Bashore.)						
Basle Chemical Works Bindschelder. (See Bischler, Augustus, assignor.)						
Bass, William A. (See Lamson, James H., assignor.)						
Bassett, Asahel O. (See Keller, James M., assignor.)						
Bassett, Fred H., Waterbury, Conn. Rowlock.....	559,836	May 12	887	198	75	864
Bassett, George B., Buffalo, N. Y. Registering or counting device.....	567,288	Sept. 8	984	233	76	1477
Bassett, George B., Buffalo, N. Y. Water-meter.....	569,271	Oct. 13	954	228 229	77	198
Bassett, L. B. (See Castle, Elmer E., assignor.)						
Bassett, Nathan, assignor of one-half to W. F. Breitenbaugh, Philadelphia, Pa. Electric-telephone transmitter.....	559,837	May 12	888	198	75	864
Bassett, Norman C., Lynn, Mass. assignor to General Electric Company, of New York. Motor-suspension.....	556,488	Mar. 17	1634	427	74	1506
Bassett, Norman C., Lynn, Mass., assignor to General Electric Company, of New York. Underrunning trolley.....	569,738	Oct. 20	1801	427	77	369
Bassett, Norman C., Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric-motor truck.....	568,891	Oct. 6	302	69	77	58
Bassett, Norman C., Chicago, Ill., assignor to Hydraulic Elevator Company, of Illinois. Elevator.....	570,592	Nov. 3	294	72, 73	77	693
Bassett, Walter E., Norwood, Ohio. Machine for shaping cigar molds.....	568,290	Sept. 22	2739	655	76	1832
Bassett, William, Kansas City, Mo. Cash register and indicator.....	570,114	Oct. 27	2454	583	77	504
Bassler, John. (See Lindquist, John W., assignor.)						
Bataille, Achille, New York, N. Y. Sliding door fastener.....	556,572	Mar. 17	1983	463	74	1533
Batchelder, Alice M., et al. (See Batchelder, William E., assignor.)						
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company, of New York. Armature-winding.....	558,027	Apr. 14	933	231	75	193
Batchelder, William E., assignor to A. C. Litchfield and A. M. Batchelder, Lynn, Mass. Safety-gate.....	559,318	Apr. 28	3212	775 776	75	654
Batcheller, Birney C., Philadelphia, Pa. Carrier for pneumatic-transit apparatus.....	567,067	Sept. 1	592	137	76	1395
Batcheller, Birney C., Philadelphia, Pa. Valve mechanism for pneumatic-transit pipes.....	568,291	Sept. 22	2732	656	76	1832
Batcheller, George C. (See Close, Gideon A., assignor.)						
Batchelor, Francis M., Portland, Oreg. Ripping attachment for sewing-machines.....	564,818	July 28	2761	657	76	555
Batchelor, Joseph F., Brooklyn, N. Y. Valve-controlling device.....	552,811	Jan. 7	592	143	74	111
Batchelor, Joseph F., Brooklyn, N. Y. Pressure-recording device.....	556,061	Mar. 10	1060	253	74	1345
Batcock, Charles E. and J. W., London, England. Saw-setting apparatus.....	566,290	Aug. 25	2405	590 591	76	1123
Batcock, Joseph W. (See Batcock, Charles E. and J. W.)						
Bateman, Charles, and W. H. Lyda, Gales Creek; said Lyda assignor of one-half to B. Wilson, Forest Grove, Oreg. Log-loading attachment for skidways.....	556,571	Mar. 17	1982	462 463	74	1532
Bateman, Frank, assignor to Bateman Manufacturing Company, Grenloch, N. J. Fertilizer-distributor and seed-planter.....	555,421	Feb. 25	2878	684	74	1091
Bateman, George D., Pinckneyville, Ill. Stovepipe-coupling.....	556,174	Mar. 10	1230	287	74	1377
Bateman Manufacturing Company. (See Bateman, Frank, assignor.)						
Bateman, Talbot O., Fort Worth, Tex. Speed-indicator.....	563,544	July 7	521	120	76	99
Bates, Albert J., Joliet, Ill. Kiln for drying barrels.....	554,973	Feb. 18	2063	490 491	74	923
Bates, Albert J., Joliet, Ill. Woven-wire fencing.....	561,193	June 2	216	52	75	1409
Bates, Albert J., Joliet, Ill. Wire fence.....	561,194	June 2	218	52	75	1409
Bates, Albert J., Joliet, Ill. Cell-case machine.....	570,621	Nov. 3	365	88 89 90	77	705
Bates, Charles A. (See Brandenburg, Henry, assignor.)						
Bates, Francis M., Tolar, Tex. Mattress-making machine.....	552,883	Jan. 14	730	178	74	151
Bates, Francis G. (See Lorois and Bates.)						
Bates, Francis G., Philadelphia, Pa. Process of and apparatus for manufacturing gas.....	573,957	Dec. 29	3361	806	77	1982
Bates, Francis G., Philadelphia, Pa. Gas apparatus.....	573,958	Dec. 29	3368	806 807	77	1983
Bates, Frederick W., assignor of one-half to G. H. Smith, Minneapolis, Minn. Bottle.....	568,186	Sept. 22	2557	615	76	1799
Bates, George A., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine.....	572,947	Dec. 15	1514	362	77	1604
Bates, Henry A., Yonkers, N. Y. Bobbin-case for sewing-machines.....	568,107	Sept. 22	2427	583	76	1774
Bates, Henry A., Yonkers, N. Y. Shuttle for sewing-machines.....	569,316	Oct. 13	1040	247	77	215
Bates, Henry H., Washington, D. C. Bridle-bit.....	574,058	Dec. 29	3557	849	77	2018
Bates, James J., St. Louis, Mo. Stuffing-box for propeller-shafts.....	571,741	Nov. 24	2330	557	77	1132
Bates, John L. (See Strank, Bromeling, and Bates.)						
Bates, Madison F. (See Olds and Bates.)						
Bates, Richard, Bloomsburg, Pa. Carpenter's gage.....	569,739	Oct. 20	1803	428	77	369
Bates, William D., assignor of one-half to J. L. Cashel, Grafton, N. D. Manifold sales-book.....	570,365	Oct. 27	2939	698	77	593

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Bates, William S., Chicago, Ill. Puzzle	569,600	Oct. 20	1541	362	77	322
Bathurst, Fred, Schenectady, N. Y., assignor to General Electric Company, of New York.	558,028	Apr. 14	935	231	75	193
Signaling system for electric railways				232		
Batson, Marshal E., assignor of one-half to R. E. Renfro, Cardondale, Ill. Display-rack	565,826	Aug. 11	1598	391	76	933
Batten, Walter, Brooklyn, N. Y. Car-fender	558,711	Apr. 21	2103	508	75	429
				509		
Battenberg, Effie M., Decatur, Ind. Umbrella attachment for bicycles	560,077	May 12	1346	302	75	949
Batterson & Eisele. (See Thonar, Michel, assignor.)						
Batterson, James G. (See Hollingshead, William B., assignor.)						
Battin, John D., Newark, N. J. Box	557,101	Mar. 31	2876	687	74	1742
Battle, James. (See McGill, John J., assignor.)						
Batty, Thomas, Colchester, England, assignor to A. T. Otto, Chicago, Ill., and F. R. Blount, New York, N. Y. Gas stove and heater	571,916	Nov. 24	2653	629	77	1193
Bauche, Gustave and H., and J. Tantine, Rheims, France. Weaving-loom	553,149	Jan. 14	1196	291	74	240
				292		
Bauche, Henry. (See Bauche and Tantine.)						
Baucum, Samuel C., and A. T. Ball, Waco, Tex. Sofa or lounge	569,163	Oct. 13	769	179	77	163
Bauer, Albert L. (See Bauer, Raymond and A. L.)						
Bauer, Franz L., Leipsic, Germany. Mechanical musical instrument	553,384	Jan. 21	1623	386	74	332
Bauer, Fred. (See Dirksen, William W., assignor.)						
Bauer, Heinrich, New York, N. Y. Drinking vessel	563,640	July 7	676	159	76	127
Bauer, Joseph, Jr., Le Roy, Wis. Feeder for corn-husking machines	571,148	Nov. 10	1319	307	77	912
Bauer, Raymond and A. L., Wheeling, W. Va. Rotary engine	573,959	Dec. 29	3373	807	77	1984
Bauer, Theodore L. (See Perrault and Bauer.)						
Bauerhammer, Charles C. A., Gothenburg, Nebr. Sash-fastener	552,884	Jan. 14	731	178	74	151
Baugh, John F., Box, Miss. Churn	567,018	Sept. 1	504	119	76	1377
Baughman, Alton L., Albion, Ind. Sack-holder	561,082	June 2	6	2	75	1368
Baukol, Paul H., Grand Forks, N. D. Window-screen	567,370	Sept. 8	1142	274	76	1505
Baum, Heinrich, Frankfurt-on-the-Main, Germany. Making orthohalogenphenol	554,974	Feb. 18	2064		74	924
Baumann, Gustavus F., Louisville, Ohio. Seam for sheet-metal articles	566,647	Aug. 25	3033	742	76	1242
Baumann, Morris, assignor to Baumann Rubber Company, New Haven, Conn. Seam-welding machine	563,997	July 14	1333	311	76	263
Baumann Rubber Company. (See Baumann, Morris, assignor.)						
Baumann, Rudolf, Seebach, Switzerland. Brass-smelting furnace	567,371	Sept. 8	1144	274	76	1505
Baumer, Anton F., Syracuse, N. Y. Illuminating display-stand	563,732	July 14	842	200	76	173
Baumgardner, William G., Manistee, Mich. Bottle	568,509	Sept. 29	3109	749	76	1917
Baumgarten, Josef, New York, N. Y. Elastic attachment for necktie-bands	556,729	Mar. 24	2233	521	74	1597
Baumgarth, John G., Brooklyn, N. Y. Apparatus for cleaning beer-pipes	565,591	Aug. 11	1186	285	76	855
Baumgartner, Joseph, Dubuque, Iowa. Musical machine	572,287	Dec. 1	352	84	77	1346
Baumgartner, Joseph P., Philadelphia, Pa. Shade supporter or bracket	572,594	Dec. 8	891	216	77	1467
Baur, Albert, Mülhausen, assignor to Fabriques des Produits Chimiques de Thann et de Mulhouse, Thann and Mülhausen, Germany. Artificial musk	560,771	May 26	2637		75	1252
Baur, Lewis, Berne, Switzerland. Riding-saddle safety attachment	558,029	Apr. 14	938	232	75	194
Bauroth, Emil, et al. (See Pfeifer, John, assignor.)						
Bauroth, William H., et al. (See Pfeifer, John, assignor.)						
Bausch, Christian H., Holyoke, Mass. Drilling-machine	563,545	July 7	522	121	76	99
Bausch, John J., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Eye-glasses	554,227	Feb. 11	763	174	74	661
Bausch & Lomb Optical Company. (See Bausch, John J., assignor.)						
Bausch & Lomb Optical Company. (See Bausch, William, assignor.)						
Bausch, William, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Eye-glasses and spectacles	572,670	Dec. 8	1019	246	77	1492
Bausman, David H., Bausman, Pa. Automatic stock-watering device	569,079	Oct. 6	622	142	77	119
Baxter, Byron S., Providence, R. I. Brush	573,198	Dec. 15	1957	470	77	1689
Baxter, E. A., et al. (See Roberts, William J., assignor.)						
Baxter, Effie. (See Baxter, Henry A., assignor.)						
Baxter, George, assignor to G. Griffith, London, England. Brake for vehicles	564,862	July 28	2835	677	76	569
				678		
Baxter, Hartley C. (See Lang, Edward M., Jr., assignor.)						
Baxter, Henry A., Seattle, Wash. Wagon-brake	562,348	June 16	2265	549	75	1840
Baxter, Henry A., Seattle, assignor, by mesne assignments, to E. Baxter, King county, Wash. Car-mover	562,450	June 23	2429	589	75	1887
Baxter, John O. (See Bristol, Baxter, and Seales.)						
Baxter, William E., Frankfort, Ky. Convertible table and kit-case	557,044	Mar. 24	2784	662	74	1701
Baxter, William E., Frankfort, Ky. Convertible table and kit-case	557,045	Mar. 24	2787	662	74	1701
				663		
Baxter, William E., Frankfort, Ky. Camper's kit	561,756	June 9	1251	298	75	1632
Baxter, William E., Frankfort, Ky. Cooking apparatus	561,856	June 9	1427	343	75	1664
				344		
Baxter, William E., Frankfort, Ky. Folding stand	561,857	June 9	1430	344	75	1665
Bay, David N., D. I. Foreacre, and F. S. Dye, Cambridge, Ohio. Fence-post	565,322	Aug. 4	684	164	76	742
Bayer, Ernest A., F. Nuess, and F. Schaffitzel, Kansas City, Mo. Wagon-wrench	567,561	Sept. 8	1442	347	76	1560
Bayer, Otto, Esslingen, Germany. Rolling shutter or screen	571,988	Nov. 24	2771	654	77	1217
Baylan, Nicholas J. (See Wolf, Albert H., assignor.)						
Bayles, Edward O., et al. (See Gorrell, William R., assignor.)						
Bayles, George F., and T. B. Johnson, Morristown, N. J. Fireman's respirator	566,557	Aug. 25	2914	711	76	1218
Bayley, Arthur J., Milwaukee, Wis. Steam-trap	571,330	Nov. 17	1615	384	77	982
Bayley, George W., et al. (See McElroy, William, assignor.)						
Bayley, Richard W., Pittsburg, and F. L. Clark, Wilkinsburg, assignors to Westinghouse Air Brake Company, Wilmerding, Pa. Device for locking or unlocking valves	557,943	Apr. 7	733	176	75	139
Bayley, Robert, Montreal, Canada. Advertising medium	561,306	June 2	428	106	75	1452
Bayley, William G., et al. (See Spencer, Oliver H. P. G., assignor.)						
Baynes, John H., Manchester, England. Clip for supporting umbrellas, sticks, &c.	562,566	June 23	2635	638	75	1926
Bazant, John, Jr., New York, N. Y. Valve-stopper for bottles	560,078	May 12	1347	302	75	950
Beach, Calvin R., et al. (See Franklin and Fletcher, assignors.)						
Beach, Clarence E., Binghamton, N. Y. Annunciator	568,423	Sept. 29	2960	710	76	1890
Beach, Edward P., assignor to Unger Brothers, Newark, N. J. Box and making same	567,957	Sept. 22	2120	511	76	1720
Beach, James E., Rontier Station, Cal. Combined almond huller and separator	567,372	Sept. 8	1145	275	76	1505
Beach, Milo D., Litchfield, assignor of one-half to H. J. Hendey, Torrington, Conn. Water-proof garment	570,081	Oct. 27	2397	568	77	493
Beach, Ralph H., East Orange, N. J., assignor to Webster & Beach, Incorporated, Boston, Mass. Clip for trolley-wires	556,876	Mar. 24	2497	549	74	1646
Beadle, Clayton, London, England, assignor to American Viscose Company, Boston, Mass. Adhesive compound	569,704	Oct. 20	1750		77	359

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Beal, Byron A., Brooklyn, N. Y. Closure for oil-cans.....	559,351	May 5	4	1	75	681
Beal, J. F., Jr. (See Ford, Willard S., assignor.)						
Beal, Morton F., Wellesley Hills, Mass. Heating apparatus.....	567,575	Sept. 15	1477	353	76	1582
Beal, Moses. (See Driggs, George W., assignor.)						
Beal, William C., assignor of two-thirds to D. E. Maxwell and W. D. Ballantine, Fernandina, Fla. Car-coupling.....	574,016	Dec. 29	3478	831	77	2002
Beale, Joseph H., Boston, Mass., assignor to Union Carpet Lining Company, Portland, Me. Carpet-lining.....	557,757	Apr. 7	426	100	75	81
Beall, John, Decatur, Ill. Cleaning or scouring grain.....	568,125	Sept. 22	2458	590	76	1780
Beall, Thomas H. C., Cicero, Ind. Heater for vehicles.....	554,106	Feb. 4	562	125	74	607
Beall, Thomas H. C., McCordsville, Ind. Carriage-curtain fastener.....	572,671	Dec. 8	1020	247	77	1492
Beals, Albert E., Norwich, N. Y. Rossing-machine.....	572,948	Dec. 15	1516	362	77	1604
				363		
Beals, William F., Decatur, Ill. Fence.....	571,331	Nov. 17	1617	384	77	983
Beaman, Frederick M. (See Wolcott and Beaman.)						
Beaman Perfect Steel Fence Company. (See Wolcott and Beaman, assignors.)						
Beamer, Mike, Logansport, Ind. Vegetable-cutter.....	553,385	Jan. 21	1624	357	74	332
Beamisderfer, Joseph A., Syner, assignor to A. W. Weierbach, Heilmandale, and D. E. Long, Belle Grove, Pa. Animal-releasing device.....	554,208	Feb. 4	736	167	74	640
Bean, D. B. (See Raymond, Henry, assignor.)						
Bean, John S. (See McGinnis, Rowley, and Bean.)						
Bean, Merrill F., Springfield, Mass. Trolley-wire frog.....	563,546	July 7	524	121	76	90
Bean, William H., Somerville, Mass. Furniture.....	554,017	Feb. 4	394	6	74	577
Beard, Bion, Dayton, Ohio. Street-railway switch.....	560,462	May 19	2054	468	75	1128
Beard, Arnold, Bonaparte, Iowa. Window-screen.....	567,214	Sept. 8	838	198	76	1452
Beard, Asa M., New Boston, N. H. Sawmill-dog.....	562,700	June 23	2845	691	75	1965
Beard, Asa M., New Boston, N. H. Wagon-jack.....	569,060	Oct. 6	624	142	77	119
Beard, Benjamin F., Pine Bluff, Ark. Self-measuring faucet.....	557,538	Apr. 7	11	3	75	4
Beard, George W., assignor of two-thirds to J. W. Erdman and C. F. Schweizer, Baltimore, Md. Car fender and brake.....	554,167	Feb. 4	677	152	74	629
				153		
Beard, Henry R. (See Smith, Earl W., assignor.)						
Beard, Joseph F., Muscatine, Iowa. Antiblotting-ruler.....	564,141	July 14	1593	373	76	314
Beard, William S., Pine Bluff, Ark. Rotary brush.....	557,944	Apr. 7	735	177	75	139
Beardmore, William, Glasgow, Scotland. Apparatus to be used in manufacturing armor-plates.....	567,876	Sept. 15	1982	475	76	1681
				476		
Beardslee, William F., New York, N. Y. Sewing-machine.....	556,710	Mar. 17	2187	511	74	1571
Beardsley, Lauren S., Naugatuck, Conn. Fastening insulator-brackets.....	558,758	Apr. 21	2187	525	75	444
Beardsley, Robert F. W., assignor to R. F. Beardsley Company, Chicago, Ill. Supporting-post for bicycles.....	564,142	July 14	1595	373	76	314
Beardsley, William N., Bridgeport, Conn., assignor to M. Hartley and M. Graham, New York, N. Y. Bicycle-supporting stand.....	564,733	July 28	2613	623	76	530
Beardshaw, William F., Sheffield, England. Twist-drill.....	554,642	Feb. 18	1499	351	74	816
Beare, Joseph H., San Francisco, Cal. Liquid-faucet.....	567,877	Sept. 15	1983	476	76	1681
Bearinger, John F., Jr., Greenock, Pa. Coat and hat hook.....	566,962	Sept. 1	388	90	76	1356
Beasley, David S. (See Dillman, William C., assignor.)						
Beattie, Frank, Lectes Island, Conn. Bush-hammer.....	564,419	July 21	2078	486	76	414
Beatty, John, Jr., Oak Centre, Minn. Harrow-tooth.....	558,469	Apr. 21	1701	411	75	355
Beauchamp, Aimé, assignor of one-half to A. Mignault, Lowell, Mass. Folding umbrella.....	562,507	June 23	2510	609	75	1903
Beaudry, Henri, <i>et al.</i> (See Fréchette, Isaie, assignor.)						
Beaudry, Joseph, <i>et al.</i> (See Fréchette, Isaie, assignor.)						
Beaudry, Zotique, Lynn, Mass. Burnishing-tool for boot or shoe heels.....	560,832	May 26	2736	628	75	1273
Beaulieu, Louis P. (See Samson, Napoleon, assignor.)						
Beaumont, George E., and J. P. Paulds, assignors of one-third to R. Glendining, Dunedin, New Zealand. Loom.....	561,933	June 9	1544	374	75	1687
Beaumont, James W., Waterbury, Conn. Button.....	555,995	Mar. 10	889	212	74	1317
Beaumont, Thomas C., assignor to Henry Huber Company, New York, N. Y. Hot-water-bath fixture.....	555,033	Feb. 18	2178	519	74	943
Beaumont, Thomas C., assignor to Henry Huber Company, New York, N. Y. Flushing-tank, &c.....	568,729	Oct. 6	20	4	77	7
Beaumont, Thomas G., Rashick, England. Rubber condenser for carding-engines.....	568,014	Sept. 22	2231	588	76	1738
				539		
Beannisne, Albert G. (See Reed, Charles E., assignor.) (Reissue.)						
Beannisne, Albert G. (See Wende, Frank J., assignor.)						
Beauregard, Ludger, St. Joseph de Levis, Canada. Pile fabric.....	556,243	Mar. 10	1353	319	74	1399
Beazan, John H., assignor of three-fifths to M. M. Meissner and S. S. Weil, Milwaukee, Wis. Trolley-guard.....	554,571	Feb. 11	1355	317	74	773
Bebby, Frederick. (See Rathbun and Bebb.)						
Béché, Jean, Jr., Hückeswagen, Germany. Pneumatic hammer.....	559,251	Apr. 28	3109	750	75	635
				751		
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Printing-press.....	569,081	Oct. 6	625	142	77	119
				143		
				144		
Becht, Herman W., Cincinnati, Ohio. Box-nailing machine.....	553,094	Jan. 14	1109	269	74	222
				270		
Bechtel, Byron E., Waterloo, Canada. Clay-disintegrator and stone-separator.....	557,472	Mar. 31	3545	847	74	1865
Bechtel, Theodore H. (See Taggart, William P., assignor.)						
Bechtold, William S., Newark, N. J. Fastening device.....	573,754	Dec. 22	2997	710	77	1900
Beck, Alexander, Atlanta, Ga. Electric-railway conduit.....	553,552	Jan. 28	1912	453	74	402
Beck, Bruno, and W. Liebrecht, Chicago, Ill. Blow-gun.....	565,423	Aug. 11	854	201	76	794
				202		
Beck, George, and C. L. Hamilton, Philadelphia, Pa. Printing.....	567,878	Sept. 15	1985	476	76	1681
Beck, H. K., <i>et al.</i> (See Hull, Randolph P., assignor.)						
Beck, John G. (See Pillings, George T., assignor.)						
Beck, John W., Toledo, Ohio. Toilet-box.....	569,402	Oct. 13	1187	280	77	242
Beck, Morris, New York, N. Y. Bicycle-garment.....	565,066	Aug. 4	177	41, 42	76	650
Beck, Peter, assignor of one-half to J. Johanson, Quincy, Mass. Blind-painting machine.....	554,572	Feb. 11	1357	317	74	773
Beck, Samuel. (See Jones, Richard W., assignor.)						
Beck, Uriah G. and W. F. Elmira, N. Y. Pass-book.....	554,169	Feb. 4	682	154	74	630
Beck, Warren F. (See Beck, Uriah G. and W. F.)						
Becker, Adolph, Jersey City, N. J., assignor of six twenty-fifths to C. Joselin, Brooklyn, and O. B. Reed, New York, N. Y. Mechanism for transmitting motion.....	570,366	Oct. 27	2941	698	77	594
Becker, Charles J., Pittsburg, Pa. Blackboard-eraser.....	559,765	May 5	718	170	75	817
Becker, Edmund, Washington, D. C. Chain.....	556,730	Mar. 24	2234	521	74	1597
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Becker, Francis L., New York, N. Y. Card-shuffling apparatus	564,774	July 28	2688	638	76	543
Becker, Frederick, North Plainfield, N. J. Indicator for bowling-alleys	559,352	May 5	5	9	75	682
Becker, Frederick P., Chicago, Ill. Ticket-punch	572,625	Dec. 8	943	229	77	1477
Becker, Henry C. (See Scott, Daniel, assignor.)						
Becker, John E. M., New York, N. Y. Bottle-capping machine	558,760	Apr. 21	2189	526	75	445
Becker, John P. (See Myhre, Chris, assignor.)				527		
Becker, Rudolph C., Springfield, Ohio. Soldering-iron	558,759	Apr. 21	2188	526	75	445
Beckett, Susan, Rubyville, New South Wales. Bust and shoulder supporter	557,945	Apr. 7	736	177	75	139
Beckwith, Arthur C., Chicago, Ill. Hammer	559,660	May 5	528	121	75	783
Beckwith, Clinton, Herkimer, N. Y. Street-cleaning machine	554,168	Feb. 4	680	153	74	630
Beckwith, David O., assignor to G. Hake, St. Louis, Mo. Automatic signal-lamp for electric railways	566,283	Aug. 18	2338	585	76	1103
				586		
Beckwith, David O., assignor of one-half to W. S. Walker, Jr., St. Louis, Mo. Car-fender	573,638	Dec. 21	2797	662	77	1864
Beckwith, Dean A., New York, N. Y. Library-stack	570,657	Nov. 3	451	106	77	723
Beckwith, John W., Galt, Cal. Trace or hame hook	554,228	Feb. 11	764	174	74	661
Beckwith, William G., Prattville, Ala. Journal-box	560,565	May 19	2216	507	75	1157
Bedale, James W. and J. G., Erie, Pa. Twisting-tube for twisting fibrous material into threads	552,657	Jan. 7	275	74	74	53
Bedale, Joseph G. (See Bedale, James W. and J. G.)						
Bedall, N. (See Wolfe, George W., assignor.)						
Bedell, Howard E. (See Covert, Henry H., assignor.)						
Bedell, John R., and C. J. Blackburn, Bethany, Mo. Combined latch and lock	558,925	Apr. 28	2482	603	75	516
				498		
Bedford, Hugh L., Bailey, Tenn. Street-car fender	553,664	Jan. 28	2108	499	74	436
Bedford, Walter L., Humboldt, Mich. Wrench	552,740	Jan. 7	432	109	74	83
Beebe, Calvin B. (See Chamberlain, William T., assignor.)						
Beebe, Clara M., Elmira, N. Y. Automatic life-guard for cars	555,753	Mar. 3	452	107	74	1211
				108		
Beebe, Dillon, Newark, N. J. Faucet-bung	570,725	Nov. 3	561	130	77	742
Beebe, Dillon, Newark, N. J. Faucet-bung and flushing-key for same	573,254	Dec. 15	2051	491	77	1706
Beebe, Dillon, Newark, N. J., assignor to Newark Faucet Company, of New Jersey. Faucet-bung. (Reissue)	11,552	June 30	3857	924	75	2179
				337	74	788
Beebe, Gaylord W., Minneapolis, Minn. Check-protector	534,613	Feb. 11	1440	338		
Beebe, James A., Tacoma, Wash. Key-fastener	563,216	June 30	3803	911	75	2169
Beebe, James E. (See Carroll, Fred M., assignor.)						
Beebe, John D., Columbus, Ohio, assignor to Beebe Tire Manufacturing Company, Portland, Me. Rubber tire	558,342	Apr. 14	1461	359	75	294
Beebe, Philip. (See Quintus, Ritchie, Quintus, Beebe, and Lukermann.)						
Beebe Tire Manufacturing Company. (See Beebe, John D., assignor.)						
Beebe, Walter A., King City, Cal. Newspaper wrapping and addressing machine	569,991	Oct. 27	2234	530	77	461
				531		
Beech, George, assignor of one-half to J. F. Weldon, Mansfield, Ohio. Combined mop and wringer pall	562,349	June 16	2206	549	75	1840
Beecher, Ebenezer B., Westville, and J. P. Wright, New Haven, Conn., assignors to Diamond Match Company, Chicago, Ill. Machine for making boxes	554,975	Feb. 18	2066	491	74	924
				493		
Beecher, Ebenezer B., Westville, and J. P. Wright, New Haven, Conn., assignors to Diamond Match Company, Chicago, Ill. Machine for making matches	557,946	Apr. 7	738	177	75	139
				178		
Beechey, Charles G., Liverpool, England. Automatic gas-meter	556,299	Mar. 10	1490	346	74	1424
Beeg, Hans, Durlach, Germany. Machine for cleaning castings	554,473	Feb. 11	1205	220	74	744
Beeghly, Warren E. (See Whitehead, Oliver W., assignor.)						
Beeghly, Warren E., et al. (See Stevens, Alfred L., assignor.)						
Beehler, Charles W., St. Louis, Mo. Box-fastener	562,936	Oct. 6	368	84	77	71
Beekly, Israel B., Greenville, Ohio. Hay-knife	567,373	Sept. 8	1146	275	76	1505
Beekman, Gerard, New York, N. Y. Reaping or mowing machine	553,095	Jan. 14	1115	270	74	223
Beekman, Gerard, New York, N. Y. Driving mechanism for bicycles	553,226	Feb. 4	8	3	74	506
Beekman, Edwin H., Plainfield, N. J. Locking device for windows	569,317	Oct. 13	1042	247	77	215
Beekman, John V., Plainfield, N. J. Throttle-valve	561,556	June 9	888	213	75	1563
Beeman, Frank A. (See Flickinger, Aaron E., assignor.)						
Beeman, Joseph S., Melbourne, Victoria. Clutch for machinery	558,030	Apr. 14	939	232	75	194
Beeman, Joseph S., Melbourne, Victoria. Pasting mechanism for cigarette-machines	571,061	Nov. 10	1145	268	77	881
Beemer, Dennis, assignor of one-eighth to W. Buckow, Detroit, Mich. Air-brake for street-cars	564,863	July 28	2237	678	76	570
Beemer, Dennis, assignor of one-eighth to W. Buckow, Detroit, Mich. Station-indicator	572,189	Dec. 1	162	39	77	1309
Beemer, George W., et al. (See Walker, Joseph, assignor.)						
Beemer, Levi. (See Lyons and Beemer.)						
Beer, Charles H., and Charles H., Jr., New York, N. Y. Sash-holder for preventing rattling of windows	572,047	Nov. 24	2567	674	77	1234
Beer, Henry. (See Beer, Samuel T., assignor.)						
Beer, Samuel T., assignor of nine-tenths to H. Beer, New Orleans, La. Sash-lift	564,499	July 21	2198	515	76	436
Beers, Alexander W., Bayonne, N. J. Handle for packages	556,877	Mar. 24	2498	529	74	1647
Beers, Frank. (See Thomas, Lewis R., assignor.)						
Beers, Philo M., Bridgeport, Conn. Machine for swaging needles	568,472	Sept. 29	3038	729	76	1905
				730		
Beers, Philo M., Bridgeport, Conn. Machine for slabbing needles	570,367	Oct. 27	2941	698	77	594
				699		
Behlen, Charles A., Cincinnati, Ohio. Spring-support for body-loops	554,107	Feb. 4	564	126	74	607
Behlen, Charles A., Cincinnati, Ohio. Combined body-loop and spring-coupling	572,097	Dec. 1	8	2	77	1280
Behlen, Charles A., Cincinnati, Ohio. Carriage-gear	573,384	Dec. 15	2294	548	77	1750
Behr, Fritz B., London, England. Motor-vehicle for single-rail elevated railways	552,812	Jan. 7	593	144	74	111
				145		
Behr, Hans C., San Francisco, Cal. Pump-operating mechanism	563,007	June 30	3429	825	75	2099
Behrend, Charles, Jr., Oconomowoc, Wis. Garment-supporter	554,643	Feb. 18	1499	352	74	816
Behrend, Samuel K., and C. F. Weller, Washington, D. C. Ore mill	563,733	July 14	844	201	76	174
Behrends, Robert, Frankfurt-on-the-Main, assignor to Maschinenbau-Actien-Gesellschaft Nürnberg, Nuremberg, Germany. Railway-track layer	564,585	July 28	2365	557	76	484
Behrens, Charles P., Lindenhurst, N. Y. Bottle	571,505	Nov. 17	1914	457	77	1037
Behrens, Henry, Huntingburg, assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic straw-stacker	566,491	Aug. 25	2815	686	76	1199

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Beidleman, Righter W., Nanticoke, Pa. Spike	560,186	May 19	1549	350	75	1040
Beidler, Herbert A., Chicago, Ill. Automatic stop-valve	565,424	Aug. 11	856	202	76	795
Bein, Emil J., Newark, N. J. Sandpapering-machine	561,557	June 9	889	214	75	1563
Bein, William A., assignor to B. Shoninger Company, New Haven, Conn. Damper for pianos	560,152	May 12	1478	333	75	975
Bein, William A., assignor to B. Shoninger Company, New Haven, Conn. Piano	561,041	May 26	3101	715	75	1341
Beisheim, Oscar, New York, N. Y. Puzzle	559,661	May 5	529	121	75	7-3
Beith, George S., New York, N. Y. Pipe-plate	570,363	Oct. 27	2950	700	77	596
Beitzel, Andrew J., Boiling Springs, Pa. Electric-railway system	555,800	Mar. 3	520	123	74	1225
Bel, Jules E. A., Barcelona, Spain. Water-meter	563,438	July 7	344	78, 79	76	67
Bélaire, Alfred, assignor to J. T. Yon, North Adams, and N. Yon, Clarksburg, Mass. Shoe Beland, Barrome, Menominee, Mich. Washing-machine	554,229	Feb. 11	765	174	74	661
Bélanger, Victor, assignor to M. E. Brady and M. E. Brady, trustee, Boston, Mass. Change- gearing for bicycles	555,844	Mar. 3	592	141	74	1238
Belcher, George E. (See Leighton, Edward J., assignor.)	568,154	Sept. 22	2507	603	76	1790
Belcher, Henry G., Los Angeles, Cal. Washing-machine	569,740	Oct. 20	1804	428	77	369
Belcher, Jeff D., and M. J. Hendley, assignors of one-third to J. A. Reynolds, Ben Wheeler, Tex. Composition for concrete tombstones	567,562	Sept. 8	1443	-----	76	1560
Belcher, Warren J., Hartford, Conn. Bevel-protractor	568,997	Sept. 29	3295	731	76	1950
Belcher, Warren J., Hartford, Conn. Combined triangle and protractor	570,977	Nov. 10	1002	233	77	833
Belches, Donald M. (See Coram, John C., assignor.)	565,255	Aug. 4	590	139	76	723
Belden, Henry A., Brooklyn, N. Y. Hair-pin	554,502	Feb. 11	1248	292	74	752
Belden, Jennie P., Hinsdale, Ill. Bake-pan	554,502	Feb. 11	1248	292	74	752
Belfield, Andrew M. (See Bunnell and Belfield.)	554,502	Feb. 11	1248	292	74	752
Belk, Matthew, Palmerston North, New Zealand. Apparatus for preventing locomotives or vehicles from leaving rails	554,644	Feb. 18	1500	352	74	816
Belknap, Charles A., Brooklyn, N. Y. Machine for addressing envelops or wrappers	560,018	May 12	1226	274 275	75	927
Belknap, Frank D., New York, N. Y. Addressing-machine	573,849	Dec. 29	3158	753	77	1946
Belknap, Frank D., New York, N. Y. Stencil-card	573,850	Dec. 29	3162	754	77	1947
Belknap, Frank D., New York, N. Y. Manufacturing stencil-type	573,851	Dec. 29	3163	754	77	1947
Belknap, Harry H., Philadelphia, Pa. Tree-protector	569,082	Oct. 6	632	144	77	121
Belknap, Harry H., Philadelphia, Pa. Tree-protector	569,083	Oct. 6	633	145	77	121
Belknap, Harry H., Philadelphia, Pa. Tree-protector	569,084	Oct. 6	633	145	77	121
Bell, Alexander C., New Alexandria, Pa. Spring	571,637	Nov. 17	2134	512	77	1077
Bell, Charles H. (See Anderson, John, assignor.)	571,637	Nov. 17	2134	512	77	1077
Bell, Charles W. (See Schmidt, Theodore F. W., assignor.)	571,637	Nov. 17	2134	512	77	1077
Bell, Edwin J., and G. F. Morgan, Laramie, Wyo. Car for transporting live stock	556,800	Mar. 24	2365	557	74	1621
Bell, Elmer J., Whiting, Me. Fish-cutting machine	572,626	Dec. 8	946	229	77	1478
Bell, Enos T. (See Forsyth and Bell.)	572,626	Dec. 8	946	229	77	1478
Bell, Frank M., New York, N. Y. Electrical hair cutter and singer	558,465	Apr. 14	1086	405	75	336
Bell, Frank R., Kansas City, Mo. Truss	565,592	Aug. 11	1189	286	76	855
Bell, George A., assignor of one-half to C. E. Slye, Sandwich, Ill. Smoke-consuming fur- nace	573,385	Dec. 15	2295	548 549	77	1750
Bell, Harry L. (See Levy and Bell.)	573,385	Dec. 15	2295	548 549	77	1750
Bell, Henry H. (See Lane, William G., assignor.)	573,385	Dec. 15	2295	548 549	77	1750
Bell, James, W. C. Melville, and J. W. Foster, Liverpool, England. Winch	559,158	Apr. 28	2928	707	75	601
Bell, James, W. C. Melville, and J. W. Foster, Liverpool, England. Wreck-raising ap- pliance	566,441	Aug. 25	2709	660 661	76	1180
Bell, Oro A., New York, N. Y. Method of and apparatus for determining ranges and dis- tances	558,926	Apr. 28	2484	603 604	75	516
Bell, Oro A., Brooklyn, N. Y., assignor to Western Electric Company, Chicago, Ill. Mul- ti-ple-switchboard system for telephone-exchanges	563,250	July 7	16	3	76	5
Bell Telephone Company of Missouri. (See Dean, William W., assignor.)	563,250	July 7	16	3	76	5
Bell Telephone Company of Missouri. (See Durant, Dean, and Childs, assignors.)	563,250	July 7	16	3	76	5
Bell Telephone Company of Missouri. (See Johnston, Wilbur H., assignor.)	563,250	July 7	16	3	76	5
Bell, William. (See Conley, Michael R., assignor.)	563,250	July 7	16	3	76	5
Bell, William H., New York, N. Y. Safety car-fender	563,439	July 7	348	80	76	68
Bell, William J., Akron, Ohio. Marking instrument	566,558	Aug. 25	2915	711	76	1219
Bell, Winslow M., assignor to Henry H. Bell's Son's Company, Milton, N. Y. Plush-bur- for circular-knitting machines	564,360	July 21	1973	463 464	76	394
Bellaire, John W., Colon, Mich. Automatically-operated pump	562,792	June 30	3019	729	75	2016
Beller, Wilhelm, Frankfort-on-the-Main, Germany. Paper-file	554,903	Feb. 18	1950	459	74	902
Bellow, Evelyn, et al. (See Eberman, Joseph W., assignor.)	555,555	Mar. 3	124	28	74	1153
Bellinger, John, St. Cloud, Minn. Sleigh	561,558	June 9	890	214	75	1563
Bellis, David C., Elizabeth, N. J. Ribbed knit fabric with backing	561,559	June 9	891	215	75	1564
Bellis, David C., Elizabeth, N. J. Knitting-machine	574,129	Dec. 29	3687	878	77	2041
Bellman, Robert H., Parnassus, assignor to New Kensington Manufacturing Company, New Kensington, Pa. Japanning and enameling machine	559,662	May 5	531	122	75	733
Bellon, David, Walton, N. Y. Car-coupling	566,291	Aug. 25	2406	501	76	1123
Bellows, William S., Springfield, Mass. Bicycle	567,936	Sept. 15	2078	500 501	76	1698
Belser, Julius. (See Buch and Belser.)	567,936	Sept. 15	2078	500 501	76	1698
Belt, William H., et al. (See Carleton, Thomas L., assignor.)	567,936	Sept. 15	2078	500 501	76	1698
Belton, Jesse C. (See Roberts, Joseph M., assignor.)	567,936	Sept. 15	2078	500 501	76	1698
Beltz, Jeremiah A. (See Jordan, William A., assignor.)	567,936	Sept. 15	2078	500 501	76	1698
Belyea, Frederick S., Brookline, Mass. Dental plugger	570,864	Nov. 3	806	135	77	788
Bem, Francisco V. de, Gloucester, Mass. Folding and reefing apparatus for jibs	569,601	Oct. 20	1542	362	77	322
Bem, Francisco V. de, Gloucester, Mass. Reefing apparatus for fore-and-aft sails	569,602	Oct. 20	1543	363	77	322
Bement, Miles & Company. (See Miles, Frederick B., assignor.)	555,635	Mar. 3	260	60, 61	74	1177
Bement, Miles & Co. (See Zinn, Johan A., assignor.)	555,721	Mar. 3	400	93	74	1201
Bement, William O., assignor to Wire Goods Company, Worcester, Mass. Swaging ma- chine	555,721	Mar. 3	400	93	74	1201
Bement, William O., assignor to Wire Goods Company, Worcester, Mass. Swaging ma- chine	555,721	Mar. 3	400	93	74	1201
Bemis, Albert T., Indianapolis, Ind. Dry-kiln	555,067	Feb. 25	2252	538	74	972
Bemis, Albert T., Indianapolis, Ind. Heating system for drying-kilns	563,641	July 7	677	159	76	127
Bemis, Albert T., Indianapolis, Ind. Dry-kiln	563,704	July 7	789	188 189	76	148
Bemis, Albert T., assignor to Standard Dry-Kiln Company, Indianapolis, Ind. Lumber- truck	569,992	Oct. 27	2241	532	77	462

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Bemis, Frederick P. (See Hinrichs and Bemis.)						
Bemis, George W., Worcester, Mass. Drum	570,693	Nov. 3	515	120	77	734
Bemis, Gilbert C., Worcester, Mass. Pneumatic last	555,986	Mar. 10	890	213	74	1317
Bemis, Gilbert C., Worcester, Mass. Instrument for handling boxes	555,997	Mar. 10	891	213	74	1317
Bemis, Thomas. (See Mingle and Bemis.)						
Benagh, Henry C., Nashville, Tenn. Combined rail joint and chair	560,118	May 12	1424	320	75	965
Benard, Henry. (See Smith and Benard.)						
Bender, Conrad, and C. G. S. Mueller, Indianapolis, Ind. Roller-bearing	563,251	July 7	21	3	76	6
Bender, Oscar N. (See Lewis, Russell H., assignor.)						
Bender, William H., Chicago, Ill. Liquid-holder	557,352	Mar. 31	3343	803	74	1826
Bendit, Leopold, Fuerth, Germany. Device for throwing out of gear belt-gearing	572,098	Dec. 1	7	2	77	1280
Bendixen, Henry, Davenport, Iowa. Mechanism for operating washing-machines	553,217	Jan. 14	1324	321	74	262
Benedict, Austin, Merrill, Wis. Ironing-table	572,519	Dec. 8	757	180	77	1437
Benedict, Charles P., West New Brighton, N. Y. Button or stud card	556,878	Mar. 24	2499	589	74	1647
Benedict, Christie. (See Benedict, Edward A. and C.)						
Benedict, Daniel B., assignor of one-half to C. A. Tarbell, Kenosha, Wis. Drawing-board	572,739	Dec. 8	1159	278	77	1518
Benedict, Edward A. and C., assignors to Deming Company, Salem, Ohio. Spraying-nozzle	564,500	July 21	2199	516	76	436
Benedict, Frank E., Newark, N. J. Sash-fastener	573,255	Dec. 15	2053	491	77	1706
Benedict, Lewis. (See Leiger, George F., assignor.)						
Benedict, Victor E. (See Carver and Benedict.)						
Benedik, Michael. (See Platz, Frank A., assignor.)						
Benesh, Charles, Wabpeton, N. D. Reel for harvesters and binders	556,244	Mar. 10	1354	319	74	1399
Benét, Laurence V., and H. A. Mercié, Paris, France, assignors to Hotchkiss Ordnance Com- pany, Limited, London, England. Automatic machine-gun	564,043	July 14	1416	329 330 331 332	76	278
Benford, William H., assignor of one-third to W. L. Griffin, Lamar, Mo. Shoe-fastening	562,114	June 16	1870	453	75	1766
Bengough, James, assignor to Carter-Crume Company, Niagara Falls, N. Y. Manifold sales- book	553,503	Jan. 28	1822	432	74	385
Bengué, Jules, Paris, France. Receptacle for ethyl chlorid	558,762	Apr. 21	2152	527	75	445
Benham, Elijah B., Mystic, Conn., and J. McAllister, Providence, R. I.; said Benham as- signor to said McAllister. Water-return system for steam-generators	569,318	Oct. 13	1044	248	77	215
Benham, Ethan S., assignor to Variety Machine Company, Warsaw, N. Y. Seed-planting machine	564,550	July 21	2282	536	76	450
Benison, William B., King's Heath, England. Bit for animals	559,319	Apr. 28	3214	776	75	654
Benjamin, Dana H., Utica, N. Y. Starching-machine	561,154	June 2	141	37	75	1393
Benjamin, Walter R., Grand Tower, Ill. Pruning-knife	568,424	Sept. 29	2961	710	76	1890
Benjamin, William T., assignor of one-half to James A. Banister Company, Newark, N. J. Upper for laced shoes	552,506	Jan. 7	8	3	74	5
Benkert, Edmond, Jasper, Ind. Coupling for shafts or poles	568,062	Sept. 22	2334	564	76	1756
Benner, Elias A., Noblestown, Pa. Valve	555,202	Feb. 25	2496	589	74	1019
Benner, Elias A., Noblestown, Pa. Thill-coupling	564,911	July 28	2904	696	76	583
Bennet, Charles S., Newport News, Va. Car-door	563,008	June 30	3431	826	75	2100
Bennett, Agnes E., Toronto, Canada. Ash-sifter	554,573	Feb. 11	1358	318	74	774
Bennett, Alfred R., London, G. J. Somerville, Heaton Chapel, and R. McLean, Notting- ham, England; said McLean assignor to said Bennett and Somerville. Telephone-ex- change system and switching apparatus	566,648	Aug. 25	3034	742	76	1243
Bennett, Andrew J., assignor of one-third to K. E. Madden, Bridgewater, Iowa. Nut-lock	565,827	Aug. 11	1599	391	76	933
Bennett, Calvin M. (See Parker and Bennett.)						
Bennett, Carrie M. (See Bennett, William A., assignor.)						
Bennett, Charles A., assignor of one-fourth to U. E. Harding, Jersey City, N. J. Car- awning ventilator	565,401	Aug. 4	816	193	76	768
Bennett, Charles H., Cincinnati, Ohio. Fecal closet	559,432	May 5	152	33	75	710
Bennett, E. Harlan. (See Brown, Stuart A., assignor.)						
Bennett, Edward E., Lincoln, Neb. Table	570,897	Nov. 10	874	203	77	829
Bennett, Edward O., Haywards, Cal. Buttonhole mechanism for sewing-machines	553,639	Jan. 28	2062	467 468	74	420
Bennett, Edward O., Haywards, Cal. Rotary engine	560,252	May 19	1680	363	75	1063
Bennett, Elmer T. (See Forbes and Bennett.)						
Bennett, Erastus S., Denver, Colo. Amalgamator	563,705	July 7	791	189	76	148
Bennett Furnace Company. (See Bennett, George W. and H. S., assignors.)						
Bennett, Garfield G., and J. H. Mowers, Mansfield, Ohio. Spring-clamp for securing braces to wire fences	562,947	June 30	3331	801	75	2079
Bennett, George W., assignor of one-half to C. M. Johnson, Pittsburg, Pa. Non-refillable bottle	574,298	Dec. 29	4028	956	77	2102
Bennett, George W. and H. S., assignors to Bennett Furnace Company, Cleveland, Ohio. Hot-air furnace	554,856	Feb. 18	1868	439 440	74	887
Bennett, Henry A., Aurora, Ill. Sash-fastener	559,663	May 5	532	122	75	784
Bennett, Horatio S. (See Bennett, George W. and H. S.)						
Bennett, James R., Philadelphia, Pa. Engine-cylinder	564,269	July 21	1824	427	76	368
Bennett, John A., and W. B. Clark, Cohoes, N. Y. Cuff or border for undergarments	570,694	Nov. 3	518	120 121	77	734
Bennett, Madison K., Rushville, Ill. Floor and ceiling clamp	559,052	Apr. 28	2697	657	75	557
Bennett, Richard, Neihart, Mont. File	554,574	Feb. 11	1358	318	74	774
Bennett, Richard, Racket Lake, N. Y. Saw-tool	569,993	Oct. 27	2242	532	77	462
Bennett, Sanford. (See Regan, Daniel S., assignor.)						
Bennett, Thomas G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Fore-stock for firearms	557,947	Apr. 7	753	180	75	142
Bennett, Thomas G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Safety locking device for magazine-firearms	564,420	July 21	2079	487	76	414
Bennett, Thomas G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Firearm	564,421	July 21	2081	487	76	414
Bennett, Thomas J., Lyon's Plain, Conn. Scotograph or writing-machine for use of the blind	553,504	Jan. 28	1823	433	74	385
Bennett, Walter E., assignor to Morley Button Sewing Machine Company, Boston, Mass. Feed mechanism for buttons	553,803	Jan. 28	2334	555	74	480
Bennett, Wellington, Chicago, Ill. Awning	573,639	Dec. 22	2799	662	77	1864
Bennett, Will F., assignor of one-half to P. A. Fair, Adamsborough, Ind. Thill-coupling	553,218	Jan. 14	1325	321	74	262
Bennett, William A., Manchester, assignor of three-fourths to C. M. Bennett, Hooksett, N. H. Whiffletree	559,353	May 5	6	2	75	682
Bennett, William F., and S. Hill, Goldsmith, Ind. Earth-auger	572,325	Dec. 1	426	100 101	77	1360
Bennett, William J., Fond du Lac, Wis. Fire-kindler	569,910	Oct. 20	2088	496	77	421
Bennitt, Alice A., Elgin, Ill. Bicycle-canopy	574,235	Dec. 29	3929	935	77	2023

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Bennor, Joseph, Macon, Ga. Machine for sewing knitted fabrics.....	557,637	Apr. 7	198	50, 51	75	38
Bennor, Joseph, Macon, Ga. Knitting-machine.....	557,638	Apr. 7	201	51	75	39
Bennor, Joseph, Macon, Ga. Knitting-machine.....	557,639	Apr. 7	204	52	75	39
Bennor, Joseph, Macon, Ga. Sink-actuating mechanism for knitting-machines.....	557,640	Apr. 7	210	53	75	40
Bennor, Joseph, Macon, Ga. Automatic straight-knitting machine.....	557,641	Apr. 7	211	53, 54	75	40
Bennum, Charles H., <i>et al.</i> (See Bennum, George W., assignor.)						
Bennum, George W., assignor of twelve twenty-fifths to A. J. Lynch, J. H. Truitt, G. C. Calhoun, A. B. Robinson, J. F. Bacon, J. D. Truxton, R. H. Fooks, Georgetown, Del., C. H. Bennum and W. T. A. Townsend, Girdletree, Md. Car-fender.....	568,187	Sept. 22	2559	616	76	1799
Benoit, Elie, Pawtucket, R. I. Self-cleaning cuspidor.....	570,217	Oct. 27	2637	625	77	538
Bensell, R. A., <i>et al.</i> (See Holcombe, Joseph G., assignor.)						
Bensing, Jacob, Malinta, Ohio. Brick or tile cutting machine.....	563,252	July 7	22	3, 4	76	6
Benson, Andrew, assignor to Chicago Stamping Company, Chicago, Ill. Bicycle.....	566,053	Aug. 18	2017	489	76	1034
Benson, Charles C., Covington, Ky. Rail-bond for electric railways.....	568,713	Sept. 29	3499	837	76	1991
Benson, Finley E., Lake Park, Iowa. Hay-rack.....	554,904	Feb. 18	1950	459	74	902
Benson, Madison M., Fairmont, W. Va. Copy-holder.....	560,566	May 19	2218	507	75	1157
Benson, Thomas W. (See Whalley, Clegg, Benson, Parratt, and Robinson.)						
Bent & Brothers, S. (See Bent, Roderic L., assignor.)						
Bent, George P., Chicago, Ill. Mouse-proof piano attachment.....	557,353	Mar. 31	3344	803	74	1827
Bent, George P., Chicago, Ill. Piano.....	561,083	June 2	9	2, 3	75	1368
Bent, Richard M., New York, N. Y. Duplicate-whist apparatus.....	569,020	Oct. 20	1541	363	77	322
Bent, Richard M., New York, N. Y. Duplicate-whist apparatus.....	571,185	Nov. 10	1369	320	77	921
Bent, Roderic L., assignor to S. Bent & Brothers, Gardner, Mass. Stool.....	559,664	May 5	533	122	75	784
Bente, Henry F., assignor to Wm. A. Stickney Cigar Company, St. Louis, Mo. Cigar-box.....	570,534	Nov. 3	176	47	77	670
Bentley, David, Philadelphia, Pa. Automatic car-fender.....	563,642	July 7	678	159	76	127
Bentley, Dozier T., Atlanta, assignor of one-third to E. L. C. Ward, Fulton county, Ga. Sringe.....	570,245	Oct. 27	2692	639	77	548
Bentley, George, <i>et al.</i> (See Scddon, Charles R., assignor.)						
Bentley, George, St. Louis, Mo. Tobacco-cutting machine.....	572,149	Dec. 1	94	21	77	1296
Bentley, H. J., <i>et al.</i> (See Johnson, Hans G., assignor.)						
Bentley, Jeffrey O., Philadelphia, Pa. Still.....	557,102	Mar. 31	2877	687	74	1742
Bentley, John A., Denver, Colo. Amalgamating apparatus.....	562,882	June 30	3205	775	75	2051
Bentley, Manton T. and M. E., Paterson, N. J. Curtain-fixture.....	554,330	Feb. 11	955	221	74	697
Bentley, Mary E. (See Bentley, Manton T. and M. E.)						
Benton, Cecil R., Vergennes, Vt. Steam-generator.....	555,754	Mar. 3	453	108	74	1211
Benton, John L., assignor of one-half to C. R. Bishop, New Haven, Conn. Bicycle-sup- porting stand.....	573,811	Dec. 22	3088	734	77	1917
Beran, Albert, Vienna, Austria-Hungary, assignor of one-half to C. W. Firnhaber, Paris, and G. Dantier, Argenteuil, France. Machine for manufacturing boxes from paper-board, &c.)	561,858	June 9	1431	{ 344 345 }	75	1665
Berckholtz, Johann G. W., Hamburg, Germany. Pyrotechnic firing device.....	562,451	June 23	2432	589	75	1888
Berdan, Marvin, Plymouth, Mich. Fence-wire tightener.....	553,096	Jan. 14	1116	270	74	224
Berdell, Theodore, New York, N. Y. Telephone.....	559,988	May 12	1175	261	75	920
Berdell, Theodore, New York, N. Y. Telephone.....	559,989	May 12	1176	261	75	920
Berdell, Theodore, New York, N. Y. Telephone.....	559,990	May 12	1177	262	75	920
Berditschewsky, called Apostoloff, Salomon, assignor to Apostoloff Automatic Telephone Parent Syndicate, Limited, London, England. System of telephonic exchange.....	562,064	June 16	1779	{ 430 431 432 433 }	75	1751
Berens, Stanislaus. (See Ornatowski, William, assignor.)						
Beretta, Joseph P., Chicago, Ill. Coin-actuated vending-machine.....	563,906	July 14	1175	{ 276 277 }	76	235
Berez, John, Chicago, Ill. Fire-escape.....	570,151	Oct. 27	2519	597	77	515
Berezovsky, Ivan N., Philadelphia, Pa. Gear-changing mechanism.....	566,963	Sept. 1	389	91	76	1356
Berg, Ernst J. (See Steinmetz and Berg.)						
Berg, Ernst J., Schenectady, N. Y., assignor to General Electric Company, of New York. Regulating phase relation of alternating currents.....	554,230	Feb. 11	765	175	74	661
Berg, Ernst J., Schenectady, N. Y., assignor to General Electric Company, of New York. Safety device for alternating systems.....	558,031	Apr. 14	941	232	75	194
Berg, Ernst J., Schenectady, N. Y., assignor to General Electric Company, of New York. Electric motor.....	563,440	July 7	350	80	76	68
Berg, Friedrich, assignor to J. B. Meriam, Cleveland, Ohio. Refining petroleum or hydro- carbon oils.....	560,463	May 19	2055	.....	75	1128
Berg, Henry. (See Plenty and Miller, assignors.)						
Berg, Henry. (See Umbach, Christian, assignor.)						
Berg, Per T., Munhall, Pa. Feed-table for rolling-mills.....	559,665	May 5	534	123	75	784
Berg, Per T., Munhall, Pa. Apparatus for operating soaking-pits.....	569,485	Oct. 13	1309	308	77	263
Berg, Peter H., Pierz, Minn., assignor of five-sixths to L. and P. R. Thielman, D. Quillioan, T. C. Wing, and H. Keller. Fluid-storage tank.....	555,034	Feb. 18	2181	520	74	943
Bergsen, George M., Leadville, Colo. Miner's knife.....	567,068	Sept. 1	593	138	76	1395
Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Tu- bular lantern.....	572,949	Dec. 15	1520	364	77	1605
Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Switch and signal lamp.....	573,501	Dec. 22	2542	602	77	1813
Berger, Ambrose J. B., Boston, Mass., assignor to Steel Cable Engineering Company, of Maine. Lubricating chain-link.....	565,199	Aug. 4	465	111	76	702
Berger, Charles E., assignor of one-half to F. C. Berger, New Haven, Conn. Coach-step.....	558,763	Apr. 21	2192	528	75	445
Berger, Charles H. (See Banzet and Berger.)						
Berger, Christian L., Boston, Mass. Engineer's Y-level.....	555,231	Feb. 25	2537	598	74	1027
Berger, Christian L., Boston, Mass. Surveyor's transit.....	559,117	Apr. 28	2815	682	75	583
Berger, Frederick C. (See Berger, Charles E., assignor.)						
Berger, Jules, Paris, France. Apparatus for dyeing.....	573,755	Dec. 22	2998	710	77	1901
Berger, Matthew, South Bethlehem, Pa. Valve for steam-cylinders.....	558,473	Apr. 21	1706	413	75	356
Berger, Max, assignor to Firm of C. Zeiss, Jena, Germany. Iris-mechanism casing.....	562,270	June 16	2122	515	75	1813
Berger, Paul E. (See Hogeland, Israel, assignor.)						
Bergfels, Henry. (See Weed, Gustavus R., assignor.)						
Bergh, Bror F., New York, assignor to M. H. Wilson, Brooklyn, and Archer Manufac- turing Company, Rochester, N. Y. Apparatus for producing designs in cakes of soap.....	569,604	Oct. 20	1545	363	77	323
Bergman, Charles E., Everett, Wash. Hydraulic steering-gear.....	553,150	Jan. 14	1198	292	74	240
Bergman, Charles E., Everett, Wash. Steering-gear.....	557,539	Apr. 7	12	3, 4	75	4
Bergmann, Carl, Hanover, Germany, assignor to W. Mallmann, Brussels, Belgium. Ob- taining vanillin.....	571,917	Nov. 24	2654	.....	77	1193
Bergmann, Emanuel. (See Erben, Carl, assignor.)						
Bergmann, Ignaz, Fort Madison, Iowa. Pen-guide and finger-rest.....	559,666	May 5	535	124	75	784

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Bergmann, Sigmund. (See Trobach, Konrad O. E., assignor.)						
Bergmann, Sigmund, assignor to General Incandescent Arc Light Company, New York, N. Y. Electric switch	552,574	Jan. 7	118	33	74	24
Bergmann, Sigmund, assignor to General Incandescent Arc Light Company, New York, N. Y. Electric-arc lamp	561,560	June 9	895	215	75	1564
Bergmann, Theodor. (See Schmeisser, Louis, assignor.)						
Bergquist, Charles G., Chicago, Ill. Electric switch	558,343	Apr. 14	1462	359	75	294
Bergqvist, Axel F., Fairfield, Iowa. Sulky-plow	561,477	June 2	737	181	75	1509
Bergsjö, Martin, Chicago, Ill., assignor to H. H. Koerts. Eyeglasses	559,320	Apr. 28	3215	776	75	654
Bergstresser, Edwin L., Hublersburg, Pa. Combined tub-support, clothes-horse, and ironing-board	573,756	Dec. 22	3000	711	77	1901
Berkstresser, John E. (See Holloway, Young E., assignor.)						
Berkstresser, John E., Birmingham, Ala. Horse-detacher	554,905	Feb. 18	1952	459	74	903
Bergstrom, Andrew G. (See Harmanson, Israel, assignor.)						
Bergstrom, Otto, <i>et al.</i> (See Parker, William S., assignor.)						
Bering, James E., Decatur, Ill. Scoop-board for wagon-beds	558,472	Apr. 21	1705	412	75	356
Bering, James E., Decatur, Ill. Fertilizer-distributor	564,181	July 21	1680	393	76	341
Berkemeyer, Ferdinand, Sellersville, assignor of one-half to H. Berkemeyer, Allentown, Pa. Chair attachment	564,044	July 14	1427	332	76	280
Berkemeyer, Henry. (See Berkemeyer, Ferdinand, assignor.)						
Berkey & Gay Furniture Company. (See Berkey, Julius, assignor.)						
Berkey, Julius, assignor to Berkey & Gay Furniture Company, Grand Rapids, Mich. Wooden rim for wheels	558,470	Apr. 21	1702	411	75	355
Berkey, Julius, assignor of one-half to F. Macy, Grand Rapids, Mich. Hair-pin	558,871	Apr. 21	2379	579	75	481
Berlfein, Jacob, New York, and H. Diamond, Brooklyn, N. Y. Bicycle-skirt	560,079	May 12	1348	303	75	950
Berlin, Henry C., <i>et al.</i> (See Corbett, Joseph, assignor.)						
Berlin Iron Bridge Company. (See Dempsey, James, assignor.)						
Berlin Machine Works. (See Thomas, John R., assignor.)						
Berliner, Emile, Washington, D. C., assignor, by mesne assignments, to United States Gramophone Company, of West Virginia. Gramophone	564,586	July 28	2367	557 559	76	484
Berliner, Strauss & Denzer. (See Kraus, Gustav, assignor.)						
Bernard, Frank J., West New York, N. J. Music-box damper	570,898	Nov. 10	876	204	77	829
Bernard, Frank J., Jersey City, assignor to American Music Box Company, West New York, N. J. Music-box regulator	554,906	Feb. 18	1953	459	74	903
Bernard, Frank J., Jersey City, assignor to American Music Box Company, West New York, N. J. Music-box	572,950	Dec. 15	1522	364	77	1606
Bernard, William, <i>et al.</i> (See Huebel and Manger, assignors.)						
Bernardin, Alfred L., Evansville, Ind. Toy	560,833	May 26	2738	622	75	1273
Bernardin, Alfred L., Evansville, Ind. Bottle-stopper	572,951	Dec. 15	1523	364	77	1606
Bernardin, Francois. (See Harris and Bernardin.)						
Bernasco, George J. (See Schulze, August F., assignor.)						
Bernauer, Henry, and N. S. Chapman, Kansas City, Mo. Feed-water heater and purifier	561,195	June 2	218	53	75	1409
Bernei, Louis B. (See Wiesenfeld and Bernei.)						
Bernei, Louis B., <i>et al.</i> (See Timmans, Louis H., assignor.)						
Berner-Mayer Company. (See Grossman, Lorenz S., assignor.)						
Berner, Paul B. T., Guttenburg, N. J. Spur-wheel for musical instruments	568,292	Sept. 22	2734	656 657	76	1833
Bernsen, Andrew. (See Anderson and Bernsen.)						
Bernson, Charles W., New York, N. Y. Pneumatic tire	573,838	Dec. 22	3144	749	77	1928
Bernstein, Adolph H., Chicago, Ill. Inclosing seal for pipe-joints	565,874	Aug. 18	1696	415	76	969
Bernstein, Alexander, Berlin, Germany. Peptonized milk beverage	552,681	Jan. 7	320		74	63
Bernstein, Alexander, Berlin, Germany. Food compound and preparing same	560,834	May 26	2740		75	1273
Bernstein, Joseph, Philadelphia, Pa. Button and fastener therefor	560,889	May 26	2861	655	75	1295
Bernstein, Simon. (See Schlivinski, Hyman, assignor.)						
Bernthsen, Heinrich A., Mannheim, and P. Julius, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Red dye and making same	555,359	Feb. 25	2772		74	1071
Bernthsen, Heinrich A., Mannheim, and P. Julius, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue dye	558,344	Apr. 14	1464		75	294
Berntsen, John, Albert Lea, Minn. Bread-raising apparatus	569,605	Oct. 20	1549	364	77	323
Berr, August W. R., San José, Cal. Rotary engine	558,144	Apr. 14	1130	275 276	75	231
Berreau, Rudolph F. (See Kerker, Thomas, assignor.)						
Berres, Peter, Pittsburg, Pa. Discharge-chute	556,527	Mar. 17	1918	447	74	1520
Berri, William, Brooklyn, N. Y. Space-bar for type-setting machines	557,540	Apr. 7	15	4	75	5
Berri, William, Brooklyn, N. Y. Matrix and matrix-distributing mechanism	557,541	Apr. 7	16	5	75	5
Berri, William, Brooklyn, N. Y. Device for casting type	558,145	Apr. 14	1132	276	75	232
Berri, William, Brooklyn, N. Y. Matrices and apparatus for distributing same	573,199	Dec. 15	1958	471 473	77	1689
Berridge, Philip W., Sturgis, Mich. Carpet-stretcher	556,454	Mar. 17	1779	412	74	1495
Berrigan, William H., Jr., Brooklyn, N. Y. Detector for railway-switches	566,887	Sept. 1	254	58, 59	76	1331
Berrigbin, Peter H., assignor of one-half to J. Craig and J. Richards, Quincy, Mass. Stone-cutting machine	539,252	Apr. 28	3111	751 752	75	636
Berron, Joseph, Jackmantown, Me. Oar for row-boats	562,369	June 23	2297	558	75	1862
Berry, Abraham H., Newton, Mass. Ventilating-fan	557,758	Apr. 7	427	100	75	81
Berry, Alfred N. (See Marshall, Cassius M., assignor.)						
Berry, Catharine V., Washington, D. C. Bicycle-skirt	567,069	Sept. 1	594	133	76	1395
Berry Engineering Company. (See Berry, William H., assignor.)						
Berry, Frederick H., Milwaukee, Wis. Dental engine	562,793	June 30	3020	730	75	2017
Berry, Joseph H. (See Bacon, Joseph H., assignor.)						
Berry, Lewis M., <i>et al.</i> (See Robinson, Edgar, assignor.)						
Berry, William H., assignor to Berry Engineering Company, Chester, Pa. Steam-boiler	573,256	Dec. 15	2054	492	77	1706
Berryman, Nannie, Buechel, Ky. Curling-iron	569,536	Oct. 13	1404	332	77	281
Bersbach, Emil. (See Saunders, Bertram H., assignor.)						
Berst, Conrad, Kansas City, Mo. Churn-dasher	565,130	Aug. 4	318	76	76	676
Bertha Mineral Company. (See Holstein, George M., assignor.)						
Bertha Mineral Company. (See Holstein and James, assignors.)						
Bertram, Ernst, and E. Sanders, New York, N. Y. Linotype-machine	563,643	July 7	680	160	76	128
Bertram, Henry W., assignor of one-half to H. Johnson and Wolverine Manufacturing Company, Detroit, Mich. Saw-filing machine	560,464	May 19	2057	468 469	75	1128
Bertram, William G., New Rochelle, N. Y. Carpet-stretcher	555,755	Mar. 3	454	108	74	1211
Bertrand, Ernst, and O. Thiel, Kladno, Austria-Hungary, assignors of one-third to J. Harts-horne, Pottstown, Pa. Manufacturing steel	559,253	Apr. 28	3115	752 753	75	637

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Bertrand Sewing Machine Company. (See Crosby, Hanford T., assignor.)						
Bertsch, Charles A., Cambridge City, Ind. Steam punching and shearing machine.....	557,103	Mar. 31	2878	688	74	1743
Berwanger, Jacob, Bellevue, Ky. Rod or roller supporting device.....	569,319	Oct. 13	1045	248	77	216
Berwick, Frank G., and S. Hadfield, Lawrence, Mass. Automatic stop-motion for wool-combing machines.....	564,912	July 28	2905	696	76	583
Berzdorf, Carl, Cologne, Germany. Coin-controlled ticket stamping and supplying apparatus.....	558,471	Apr. 21	1704	412	75	355
Berzdorf, Carl, Cologne, Germany. Coin-controlled ticket stamping and supplying apparatus.....	563,734	July 14	846	201	76	174
Besse, Edward. (See Hall, Charles H., assignor.)						
Bessette, Luke E., St. Cloud, Minn. Delivery-wagon.....	555,423	Feb. 25	2e87	686 687	74	1092
Bessing, Theodore, Los Angeles, Cal. Shoulder-brace.....	559,024	Apr. 28	2647	645	75	549
Bessler, George J. (See McFarlane, John, assignor.)						
Besson, Hyppolite, London, England. Brush-case.....	573,852	Dec. 29	3164	754	77	1947
Best, Charles J., and A. E. Meanor, Chicago, Ill. Combined calciner and smelter.....	569,537	Oct. 13	1405	332	77	281
Best, Daniel, San Leandro, Cal. Carbureter.....	565,828	Aug. 11	1601	392	76	933
Best, George. (See Fox, Daniel, assignor.)						
Best, John H., Denver, Colo. Curtain-folding hanger.....	562,779	June 23	2994	724	75	994
Best, Otto, et al. (See McDonald, Lorenzo D., assignor.)						
Best, Peter, Elizabeth, N. J. Car-fender.....	561,155	June 2	143	38	75	1393
Best, Robert H., Handsworth, England. Varying level and position of gas, electric, or oil lights.....	561,196	June 2	221	53	75	1410
Best, Robert H., Birmingham, England. Apparatus for raising or lowering center lights of chandeliers.....	568,015	Sept. 22	2234	539	76	1739
Best, Thomas C., Chicago, Ill. Boiler-lug.....	569,164	Oct. 13	771	179	77	163
Bestgen, John G., Somerville, Mass. Scissors or shears.....	570,658	Nov. 3	452	106	77	723
Bethune, William B., and J. McPherson, Lincoln, Neb. Letter-box.....	567,330	Sept. 8	1070	255	76	1492
Bettcher, Gottlieb, Cleveland, Ohio. Safety-socket for taps or drills.....	572,099	Dec. 1	8	3	77	1280
Bettman, Patrick H. (See Esmond, William V., assignor.)						
Betts, Arlington U. (See Bancroft and Betts.)						
Betts, Lewis F., Brooklyn, assignor to Betts Patent Head Light Company, New York, N. Y. Lamp-support.....	560,338	May 19	1829	416	75	1088
Betts, Lewis F., Brooklyn, assignor to Betts Patent Head Light Company, New York, N. Y. Lamp-support.....	569,741	Oct. 20	1806	428	77	370
Betts Machine Company. (See Moreton, George W., assignor.)						
Betts Patent Head Light Company. (See Betts, Lewis F., assignor.)						
Betz, Ernest, Washington, D. C. Hot-air furnace.....	568,730	Oct. 6	23	4	77	7
Betz, Edward C., New York, N. Y., assignor to Sackett & Wilhelms Lithographing Company, of New Jersey. Paper doll.....	553,893	Feb. 4	156	32	74	535
Beugler, John B., W. Uhl, and A. G. Slawson, Dayton, Tenn. Churn.....	565,667	Aug. 11	1321	318 319	76	881
Bever, Alexander, Chicago, Ill. Cabinet show-case.....	557,948	Apr. 7	755	180	75	142
Bever, R. A. (See Price, Twiggs, assignor.)						
Bever, Andries. (See Lloyd, John T., assignor.)						
Bevin, Abner A., and J. C. Wells, East Hampton, Conn. Lantern-bracket for bicycles.....	568,328	Sept. 29	2797	673	76	1860
Bevin Brothers Manufacturing Company. (See Scranton, Frederick A., assignor.)						
Beyer, Richard, Berlin, Germany. Syringe.....	554,614	Feb. 11	1443	338	74	789
Beyroux, Gabriel F. (See Klotz, Landry, and Beyroux.)						
Bezzo, Andrew H., Toone, Tenn. Car-coupling.....	563,735	July 14	847	201	76	175
Bibby, James, et al. (See Henderson, William, assignor.)						
Bibby, Joseph, et al. (See Henderson, William, assignor.)						
Bible, James M., assignor to Colorado Iron Works Company, Denver, Colo. Ore-feeder.....	567,448	Sept. 8	1266	306 307	76	1528
Bible, John F., Ionia, Mich. Wheel and axle connection.....	570,742	Nov. 3	600	138	77	748
Bicheroux, Toussaint, Dusseldorf, assignor to Duisburger Eisen und Stahlwerke, Duisburg, Germany. Process of and apparatus for compressing, &c., and new-shapening hollow ingots in matrices.....	571,332	Nov. 17	1618	384 385	77	983
Bickel, Cora M. (See Bickel, John F., assignor.)						
Bickel, John F., assignor to C. M. Bickel, Racine, Wis. Vehicle-spring.....	553,201	Jan. 14	1301	315	74	258
Bickford & Huffman Company. (See Kirkpatrick, May, and Stevens, assignors.)						
Bickford, William A., Border City, N. Y. Swing.....	561,368	June 2	542	136	75	1474
Bickle, P. J., et al. (See Glass, George A., assignor.)						
Bickmann, Charles J., et al. (See Doty, William W., assignor.)						
Biddison, William T. (See Campbell, Cydnor B., assignor.)						
Biddle, Lemuel D., assignor of one-half to A. D. Garrison, Los Angeles, Cal. Machine for grinding cocks or taps.....	570,431	Oct. 27	3071	728 729	77	618
Biddle, William, Brooklyn, N. Y. Electric car-lighting apparatus.....	555,068	Feb. 25	2253	538	74	972
Biddle, William, Brooklyn, N. Y. Train-signal.....	560,293	May 19	1749	398	75	1075
Bidelman, Thomas, assignor of one-half to P. Dormire, Parshallville, Mich. Potato-planter.....	569,948	Oct. 20	2165	513 514	77	435
Bidwell Alonzo, Sedgwick, Ark., assignor of seven twenty-fourths to J. V. Dabbs, J. Glunz, and M. V. Barnett, Fort Scott, Kans. Railway cross-tie.....	571,316	Nov. 10	1591	377	77	964
Bidwell, Charles H., Medina, N. Y. Bean-planter.....	557,046	Mar. 24	2789	663	74	1702
Bidwell, Robert G., Orlando, Fla. Bottle.....	571,035	Nov. 10	1108	259	77	873
Biedler, Frank R. (See Hamilton, Christopher H., assignor.)						
Biele, Charles F., New York, N. Y. Show-case.....	562,701	June 23	2847	691	75	1965
Bielefeldt, Max, Wittenberg, Germany. Safety explosive.....	565,593	Aug. 11	1191	.....	76	856
Bieler, John E., Wheaton, Kans. Fence-machine.....	557,542	Apr. 7	19	5, 6	75	5
Bieler, William. (See Bieler, William W. and W.)						
Bieler, William W. and W., Onaga, Kans. Fence-machine.....	561,042	May 26	3102	715	75	1341
Bielhen, Frederick, St. Joseph, Mo. Stone-sawing machine.....	568,731	Oct. 6	25	5, 6	77	8
Bielmann, Otto A., Amesville, La. Manufacturing sugar.....	557,642	Apr. 7	219	.....	75	42
Bielmann, Otto A., New Orleans, La. Refining sugar.....	557,643	Apr. 7	221	.....	75	42
Bierbach, Albert G., Milwaukee, Wis. Car-door.....	558,474	Apr. 21	1707	413	75	356
Bierer, Helen, San Francisco, Cal. Preserving eggs.....	558,253	Apr. 14	1317	.....	75	266
Bierley, Henry A., assignor of one-half to S. Harchaw, Portsmouth, Ohio. Pneumatic billiard-cushion.....	558,892	Apr. 21	2415	568	75	488
Bierstadt, Albert, New York, N. Y. Railway-car.....	559,962	May 12	1118	250	75	905
Bierstadt, Albert, New York, N. Y. Railway-car.....	559,963	May 12	1122	251	75	907
Bierstadt, Albert, New York, N. Y. Railway-car.....	559,964	May 12	1123	251	75	908
Bierstadt, Albert, New York, N. Y. Railway-car.....	559,965	May 12	1127	252	75	909
Bierstadt, Albert, New York, N. Y. Railway-car.....	559,966	May 12	1132	252 253	75	911

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Bierstadt, Albert, New York, N. Y. Railway-car.....	566,127	Aug. 18	2149	{ 523 524 }	76	1057
Bierstadt, Edward, Summit, N. J. Screw-propeller.....	566,292	Aug. 25	2407	591	76	1124
Bigelman, Augustus. (See Simpson and Bigelman.)						
Bigelow, Almon E., Spaulding, Ill. Brick-machine.....	559,094	Apr. 28	2773	671	75	573
Bigelow, Charles A., Parker City, and T. C. Gates, Hoodville, Pa. Wrench.....	573,806	Dec. 22	3078	731	77	1916
Bigelow Company. (See Bigelow, Frank L., assignor.)						
Bigelow, Don J., assignor to S. A. Cook & Company, Medina, N. Y. Reclining-chair.....	564,361	July 21	1976	464	76	395
Bigelow, Frank B., Auburn, Me. Thermostat-actuated alarm.....	555,069	Feb. 25	2258	539	74	972
Bigelow, Frank L., assignor to Bigelow Company, New Haven, Conn. Drier.....	555,756	Mar. 3	456	{ 108 109 }	74	1212
Bigelow, Lucius S., assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Ruling-machine.....	554,976	Feb. 18	2071	493	74	925
Bigelow, Lucius S., assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Paper-ruling machine.....	558,764	Apr. 21	2193	528	75	445
Bigelow, Samuel L., Boston, Mass. Self-regulating distilling apparatus.....	564,734	July 28	2614	623	76	530
Biggar, John S. (See Small and Biggar.)						
Biggs, Charles H., Brooklyn, N. Y. Square.....	556,840	Mar. 24	2427	570	74	1633
Bilbro, James A., Gadsden, Ala. Open grate and attachment therefor.....	566,649	Aug. 25	3038	742	76	1243
Bilfinger, Charles W. (See Lowe and Bilfinger.)						
Bilger, George M. (See Taylor, James M., assignor.)						
Bilger, George M., Clearfield, Pa. Striking mechanism for clocks.....	555,203	Feb. 25	2497	{ 589 590 }	74	1020
Bilgram, Hugo, Philadelphia, Pa., assignor, by mesne assignments, to Bonsack Machine Company, Salem, Va. Cigarette-machine.....	565,851	Aug. 11	1637	{ 401 402 403 }	76	941
Bilgram, Hugo, Philadelphia, Pa., assignor, by mesne assignments, to Bonsack Machine Company, Salem, Va. Cigarette machinery.....	565,852	Aug. 11	1646	{ 408 404 405 }	76	942
Bilgram, Hugo, Philadelphia, Pa., assignor, by mesne assignments, to Bonsack Machine Company, Salem, Va. Cigarette-machine.....	572,150	Dec. 1	96	22	77	1296
Billings, Charles E. (See Wilson, Thomas B., assignor.)						
Billings, Charles E., Hartford, Conn. Combination-tool.....	554,046	Feb. 4	441	98	74	585
Billings, Charles E., Hartford, Conn. Oil-guard for drop-hammers.....	566,128	Aug. 18	2151	524	76	1057
Billings, Charles W., Carroll, Ind. Apparatus for digging ditches.....	557,949	Apr. 7	757	180	75	142
Billings, George W., Grand Rapids, Mich. Vapor-burner attachment.....	568,228	Sept. 22	2633	632	76	1813
Billings, George W., assignor to T. Friant, T. S. White, T. M. Peck, F. Raniville, D. McCoy, M. Bundy, J. J. Tucker, L. A. Giddings, F. A. Stone, and B. P. Kenyon, Grand Rapids, Mich. Vapor-burner.....	555,070	Feb. 25	2259	539	74	973
Billingsley, Andrew A., Springfield, Ill. Pants-guard for bicycles.....	557,181	Mar. 31	3019	722	74	1768
Billingsley, Thomas J., Logansport, La. Scouring-mop.....	552,980	Jan. 14	915	222	74	185
Billon-Haller, Jean, Geneva, Switzerland. Musical box.....	564,775	July 28	2690	{ 639 640 }	76	543
Bills, Horatio S., assignor of two-thirds to J. H. Mitchell, Ionia, Mich. Individual-car fluid-pressure-brake-operating device.....	568,714	Sept. 29	3500	{ 837 838 }	76	1991
Billstein, Nathan. (See Damborg, Thorwald C., assignor.)						
Billups, George C., Norfolk, Va. Harrow.....	555,424	Feb. 25	2888	687	74	1093
Bimberg, Nathan, Elmira, N. Y. Device for melting sealing-wax.....	554,645	Feb. 18	1501	352	74	816
Binkley, George S., et al. (See Leinard, Edgar A., assignor.)						
Binder, Gottlob, Philadelphia, Pa. Ironing-machine.....	568,732	Oct. 6	27	8	77	8
Binford, William, Ogden, Utah. Spray-nozzle.....	571,940	Nov. 24	2692	637	77	1202
Bingaman, Mary E., New York, N. Y. Window-refrigerator.....	556,612	Mar. 17	2050	479	74	1544
Bingham, Henry J. (See Thompson and Bingham.)						
Bingham, Robert O., Sidney, Ohio. Railway-rail chair.....	566,708	Aug. 25	3144	769	76	1260
Bingham, Robert O., and B. P. Wagner, assignors to Wagner Manufacturing Company, Sidney, Ohio. Waffle-iron.....	569,444	Oct. 13	1250	293	77	253
Bingham, William H., et al. (See Murray, Frank C., assignor.)						
Binkerd, Aaron T., Allegheny, Pa. Saw-clamp.....	571,742	Nov. 24	2331	557	77	1133
Binkley, George K. (See Mengel, Binkley, and Gerber.)						
Binkley, John S., Atchison, Kans. Compressor for corn-shock binders.....	565,668	Aug. 11	1322	319	76	882
Binner, Charles S., Malden, Mass. Carbon-sheet holder for manifolding books or pads.....	572,241	Dec. 1	258	62	77	1327
Binns, Leedham, Philadelphia, Pa. Woven chenille fabric.....	559,667	May 5	536	{ 124 125 }	75	784
Biorn, Christian A., assignor of one-half to J. M. Jones, Piermont, N. Y. Mucilage-bottle.....	573,129	Dec. 15	1837	443	77	1667
Bippart, Achill, Newark, N. J. Link-button with shifting links.....	564,963	Aug. 4	5	2	76	617
Birchall, Jacob P., Fargo, N. D. Flax-thresher.....	559,354	May 5	7	2	75	682
Birchall, Thomas, assignor to R. Atherton, Paterson, N. J. Harness-leveling device for looms.....	562,350	June 16	2267	550	75	1841
Bircher, Cornelius A., Hedrick, Iowa. Combined wind and water engine.....	558,475	Apr. 21	1709	413	75	357
Bird, Charles S., and E. D. Weston, Jackson, Mich. Ice-tongs.....	572,952	Dec. 15	1524	365	77	1606
Bird, Frederick G., Dunkirk, N. Y. Device for removing scale from boiler-tubes.....	573,853	Dec. 29	3165	754	77	1947
Bird, John, Summit, N. J. Non-fillable bottle.....	555,556	Mar. 3	125	28	74	1153
Bird, Richard C., Chicago, Ill. Adjustable fixture for window-shades.....	557,543	Apr. 7	20	6	75	6
Bird & Son, F. W. (See Marshall, Lewis C., assignor.)						
Bird, Thomas. (See Hargreaves and Bird.)						
Birdsell, Rudolph W., Philadelphia, Pa. Stand for ice-coolers.....	568,396	Sept. 29	2910	701	76	1881
Birely, Charles, Shelbyville, Ind. Furniture-leg attachment.....	568,397	Sept. 29	2911	701	76	1881
Birkery, Cornelius, assignor to Birkery Manufacturing Company, Hartford, Conn. Ball-cock.....	559,884	May 12	984	219	75	882
Birkery Manufacturing Company. (See Birkery, Cornelius, assignor.)						
Birkett, Edward J. (See Crandall and Birkett.)						
Birkey, John W., et al. (See Falkenau and Hund, assignors.)						
Birkinshaw, William K. (See Owen and Birkinshaw.)						
Birney, Alice J., Chevy Chase, Md. Bib.....	563,644	July 7	683	160	76	128
Birney, Thomas J., et al. (See Shepard, John F., assignor.)						
Biron, Jean B. (See Landry, Francois X., assignor.)						
Bircherd, Edward J., Genoa Junction, Wis. Vehicle-wheel.....	568,398	Sept. 29	2912	702	76	1881
Birch, Fred S., Philadelphia, Pa. Trolley-guard.....	567,879	Sept. 15	1986	476	76	1681
Birum, Carlus C., Utley, Wis., assignor to Green Lake Granite Company, Chicago, Ill. Rock and ore pulverizer.....	559,433	May 5	154	33	75	711
Bisbee, Luke L., Spencer, Iowa. Stackers.....	572,151	Dec. 1	98	22, 23	77	1296
Bisbing, Charles L., assignor of one-half to O. D. Holmes and C. J. Kirk, Philadelphia, Pa. Railway-switch.....	569,949	Oct. 20	2167	514	77	436

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Bischler, Augustus, Zurich, assignor to Basle Chemical Works Bindschedler, Basle, Switzerland. Methoxy-acetphenetidin	563,009	June 30	3433		75	2160
Bischoff, Carl T., Hamburg, Germany. Street-railway-rail cleaner	556,731	Mar. 24	2236	{ 522 523 }	74	1598
Bisel, Joseph J., and J. Hancock, Philadelphia, Pa. Pulley-block	559,766	May 5	719	170	75	818
Bisel, Joseph J., and J. Hancock, Philadelphia, Pa. Clothes-drier	562,351	June 16	2268	550	75	1841
Bishop, Aaron M., Green Spring, Ohio. Brick-kiln	565,594	Aug. 11	1192	286	76	856
Bishop & Babcock Company. (See Champ, Joseph H., assignor.)						
Bishop, Charles R. (See Benton, John L., assignor.)						
Bishop, Charles R., et al., trustees. (See Kidder, Wellington P., assignor.)						
Bishop, Clark. (See Halman, Huettich, and Bishop.)						
Bishop, Francis M., Newark Valley, N. Y. Thill-coupling	555,998	Mar. 10	893	213	74	1317
Bishop, Francis M., Newark Valley, N. Y. Thill-coupling	555,999	Mar. 10	894	213	74	1318
Bishop, Frank P., Marion, Ohio. Mechanical motor	565,300	Aug. 4	466	111	76	703
Bishop, John J. (See Whitehead, Henry B., assignor.)						
Bishop, John M., Huntsville, Ala. Baling-press	563,441	July 7	351	80	76	68
Bishop, Leonard L., Montclair, N. J. Guide for sashes, partitions, &c	561,478	June 2	739	182	75	1510
Bishop, McKendree F., Alameda, Cal. Axle and axle-box	572,925	Dec. 8	1466	352	77	1579
Bishoprick, Nicholas J., Brooklyn, N. Y. Car-fender	555,204	Feb. 25	2499	590	74	1020
Bishoprick, Nicholas J., Brooklyn, N. Y. Car-fender	565,595	Aug. 11	1194	{ 286 287 }	76	856
Bissell Carpet Sweeper Company. (See Drew, Walter J., assignor.)						
Bissell, Emerson R. (See Frost, Newland E., assignor.)						
Bissell, William A., Newport, Ky. Wabbling saw	563,123	June 30	3650	874	75	2141
Bister, John, Brooklyn, N. Y. Woven fabric	565,829	Aug. 11	1603	392	76	934
Bitting, Lewis W., Philadelphia, Pa. Liquid-distributing device	563,645	July 7	683	161	76	129
Bitting, Samuel L., Brooklyn, N. Y. Egg-tester	564,300	July 21	1869	438	76	376
Bitzer, Samuel B., et al. (See Cline, William, assignor.)						
Bixby, John L., Jr., Arlington Heights, Mass. Combined day and sleeping car	552,629	Jan. 7	214	59, 60	74	42
Bixby, John L., Jr., Arlington Heights, Mass. Sleeping-car and vestibule	552,682	Jan. 7	321	85	74	63
Bixby, Rufus M., Foster, Iowa. Bin	561,644	June 9	1037	250	75	1591
Bixler, William G., Albion, Nebr. Corn planter and cultivator	557,544	Apr. 7	22	6	75	6
Black, Albert B., Severy, Kans. Cloth displaying, measuring, and cutting apparatus	560,294	May 19	1753	399	75	1075
Black, Albert B., Lexington, Mass. Snow-plow	573,854	Dec. 29	3166	755	77	1947
Black, Duncan K., et al. (See Irish, Lemuel E., assignor.)						
Black, Edward G., and J. F. Werle, New York, N. Y.; said Werle assignor to said Black. } Paging-machine	567,958	Sept. 22	2122	{ 511 512 513 }	76	1720
Black, George I., and L. B. Gaylor, Erie, Pa. Bicycle-pedal	564,301	July 21	1870	438	76	376
Black, J. Hiram. (See Black, William W., assignor.)						
Black, John F., Carl Junction, Mo. Keyboard	572,953	Dec. 15	1525	365	77	1607
Black, Llewellyn L., Rehoboth, Mass. Meat-tenderer	559,838	May 12	891	198	75	864
Black, Richard, Cannonsburg, Pa. Hinge	557,473	Mar. 31	3546	847	74	1865
Black, Robert H., Homestead, Pa. Car-brake	554,434	Feb. 11	1137	265	74	732
Black, Robert H., Homestead, Pa. Flue-cleaner	572,740	Dec. 8	1160	279	77	1518
Black, Walter, Chicago, Ill. Sandpapering-machine	564,587	July 28	2372	558	76	425
Black, Walter, Chicago, Ill. Machine for cutting pulley-stile pockets	565,875	Aug. 18	1696	{ 415 416 }	76	969
Black, William W., Melrose, Mass., assignor of one-third to J. H. Black, Searletown, Can- } ada. Boring-machine	570,197	Oct. 27	2601	618	77	531
Blackall, Christopher R. (See Heydrick, William H. H., assignor.)						
Blackall, Robert C., et al. (See Shephard, John H., assignor.)						
Blackburn, Arthur H. (See Downs and Blackburn.)						
Blackburn, Arthur H., Matteawan, N. Y. Tube-cleaner for feed-water heaters	557,545	Apr. 7	24	7	75	7
Blackburn, Charles J. (See Bedell and Blackburn.)						
Blackburn, George W., Columbus, Ohio. Dish-cleaner	555,671	Mar. 3	329	75	74	1189
Blackburn, John A., Norborne, Mo. Car-coupling	557,950	Apr. 7	757	181	75	142
Blackburn, John O., Pittsburg, Pa. Rail chair and brace	565,830	Aug. 11	1604	392	76	934
Blackburn, Joseph S., assignor to W. J. Clark Company, Salem, Ohio. Hose-coupling	574,236	Dec. 29	3930	935	77	2084
Blackburn, Nathan C., and E. E. Howell, Fairbury, Nebr. Wheat-steamer	571,638	Nov. 17	2135	512	77	1077
Blacketer, Samuel, Gowrie, Iowa. Musical instrument	552,862	Jan. 7	674	164	74	127
Blackford, Atwell J., assignor of one-half to Durand Manufacturing Company, Medina, } Ohio. Oil-burner. (Reissue)	11,575	Nov. 24	3019	{ 706 707 }	77	1260
Blackford, William H., and W. Holdsworth, assignors to Detroit Casket Company, Detroit, } Mich. Burial-casket	560,253	May 19	1682	323	75	1063
Blackford, William H., and W. Holdsworth, assignors to Detroit Casket Company, Detroit, } Mich. Pedestal for burial-caskets	563,907	July 14	1179	277	76	236
Blackhall, Edward W., deceased, Toronto, Canada; M. J. Blackhall administratrix. Mani- } fold memorandum-book	558,712	Apr. 21	2105	509	75	429
Blackhall, Margaret J., administratrix. (See Blackhall, Edward W.)						
Blackham, Job W., Brooklyn, N. Y. Game apparatus	556,246	Mar. 10	1358	320	74	1400
Blackman, Henry, New York, N. Y. Electrode	568,229	Sept. 22	2634		76	1814
Blackman, Henry, New York, N. Y. Electrode for electrolytic decomposition	568,230	Sept. 22	2636		76	1814
Blackman, Henry, New York, N. Y. Electrolytic anode and apparatus	568,231	Sept. 22	2637	633	76	1814
Blackmer, James A., assignor to A. B. Riggs, Chicago, Ill. Book-holder	564,964	Aug. 4	7	2	76	618
Blackmore, John E., assignor of one-half to G. W. Fangle, Council Bluffs, Iowa. Tongs } for stretching wire	554,810	Feb. 18	1773	418	74	869
Blackmore, Joseph J., Brooklyn, N. Y. Steam or hot-water heater	556,328	Mar. 17	1543	360	74	1449
Blackstock, William M., Shadeland, Ind., and J. Conley, Chicago, Ill., assignors, by mesne } assignments, to Elliott & Hatch Book Typewriter Company, of New York. Type-writ- } ing machine	567,937	Sept. 15	2080	{ 501 502 }	76	1698
Blackstone, Henry F., Sewickley, Pa. Embroidery-frame	567,070	Sept. 1	595	138	76	1395
Blackwell, Francis O. (See Knight and Blackwell.)						
Blackwell, Francis O., Schenectady, N. Y., assignor to General Electric Company, of New } York. Attaching field-magnet poles	573,130	Dec. 15	1839	443	77	1667
Blackwell, William H., Guide Bridge, England. Apparatus for curling hat-brims	565,956	Aug. 18	1851	450	76	1000
Blaine, William T. (See Ward, Frederick D., assignor.)						
Blaine, William T., St. Louis, Mo. Combined cash-till and recorder	564,045	July 14	1428	{ 333 334 }	76	281
Blaine, William T., St. Louis, Mo. Triplicating-register	564,046	July 14	1434	331	76	281
Blair, Benjamin L., Indianapolis, Ind. Bridge	568,830	Oct. 6	1935	47	77	39
Blair, Calvin C., Beloit, Kans. Grain-drill	569,035	Oct. 6	551	127	77	105
Blair, Frederick W., Revere, assignor of one-half to A. D. Hulbert, Salem, Mass. Car-seat. }	553,386	Jan. 21	1625	387	74	332
Blair, Jennie A., New York, N. Y. Electric heel and toe protector	559,254	Apr. 28	3116	753	75	637

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Blair, Joseph F. (See Musgreave, Mark, assignor.)						
Blair, Thomas H., and F. H. Kelley, Boston, assignors to American Camera Manufacturing Company, Northborough, Mass. Photographic roll-holder	565,323	Aug. 4	685	{ 164 165 }	76	742
Blair, Wilfred W., assignor of one-half to R. H. Hick, Burton, Ohio. Hammock-chair	555,557	Mar. 3	127	29	74	1153
Blaisdell, Sarah L., Winona, Minn. Educational chart	557,182	Mar. 31	3020	732	74	1769
Blake, Byron S., Rochester, N. Y. Padlock	557,522	Mar. 31	3642	873	74	1882
Blake, C. Niles. (See Blake, David, assignor.)						
Blake, Clarence R. (See Waite, Milo K., assignor.)						
Blake, David, assignor to C. N. Blake, Newark, N. J. Railway-rail	567,532	Sept. 8	1393	335	76	1551
Blake, Fred J., Fort Dodge, Iowa. Fertilizer-distributor	560,131	May 12	1445	325	75	970
Blake, George E., Greencastle, Ind. Vehicle-wheel rim	559,113	Apr. 28	2818	682	75	584
Blake, George W., and J. B. Price, New York, N. Y. Bottle	557,644	Apr. 7	924	55	75	42
Blake, Ira G., Worcester, Mass. Time-lock	573,855	Dec. 29	3168	755	77	1948
Blake, Joseph M., Buffalo, N. Y. Dumping-wagon	566,492	Aug. 25	2816	{ 686 687 }	76	1199
Blake, Millard F., Martinsburg, Pa. Dumping-car	567,019	Sept. 1	505	119	76	1377
Blake, Solomon E., Indianapolis, Ind. Rocking-chair	558,709	Apr. 21	2101	508	75	429
Blake, Solomon E., Indianapolis, Ind. Rocking-chair	568,293	Sept. 22	2736	657	76	1833
Blakely, Collins, Elsinore, Utah. Drill	554,209	Feb. 4	737	{ 167 168 }	74	640
Blakeney, Harry W. (See Blakeney, William A. and H. W.)						
Blakeney, William A. (See Lawrence, Harry W., assignor.)						
Blakeney, William A. and H. W., Chestertown, Md. Safety car-fender	565,256	Aug. 4	591	139	76	723
Blakeslee, George S., Chicago, Ill. Dish-cleaner	569,606	Oct. 20	1550	364	77	324
Blakesley, John H., London, England. Fireproof floor, roof, &c	558,597	Apr. 21	1911	465	75	394
Blakey, Edwin, et al. (See Sykes and O'Donnell, assignors.)						
Blakey Manufacturing Company. (See Pickett, William H., assignor.)						
Blakey, Mildred, Pittsburg, Pa. Operation of gas-engines	571,966	Nov. 24	2732	616	77	1210
Blanchard, Albert D., Wichita, Kans. Hinge-pin for breakdown guns	572,520	Dec. 8	758	180	77	1438
Blanchard, Allen I., Chicago, Ill. Railway-ticket	568,399	Sept. 29	2914	702	76	1882
Blanchard, Allen I., Chicago, Ill. Ticket cutter and receptacle	568,400	Sept. 29	2918	{ 702 703 }	76	1882
Blanchard, Harry H., Augusta, Me. Trolley-finder	563,998	July 14	1335	311	76	263
Blanchard, Helen A. (See Strain, Edwin, assignor.)						
Blanchard, Hiram S., et al. (See Barton, James, assignor.)						
Blanchard, Kirk S., Albion, N. Y. Press	567,635	Sept. 15	1577	{ 379 380 }	76	1601
Blanchard, Kirk S., Albion, assignor of two-thirds to R. E. Boschert, Syracuse, N. Y. Filtering apparatus	572,672	Dec. 8	1021	247	77	1493
Blanchard, John F. (See York and Slaughter, assignors.)						
Blanchard, Sidney R. (See Zellers and Blanchard.)						
Blanchard, Thomas C., Hartford, N. C. Box-fastener	556,245	Mar. 10	1356	319	74	1400
Blanchard, Virgil W., New York, N. Y. Gas-stove	569,085	Oct. 6	634	145	77	121
Blanchard, Virgil W., New York, N. Y. Gas-stove	569,086	Oct. 6	636	145	77	122
Blanchard, Virgil W., New York, N. Y. Air and gas mixer and hydrocarbon-furnace	569,984	Oct. 20	2218	527	77	444
Blanchard, Wilbur S., Scranton, Pa. Clamping device for paper boxes	555,845	Mar. 3	593	142	74	1238
Bland, Oliver P. (See Sleep, William J., assignor.)						
Blandin, Clayton O., Hastings, Nebr. Word-register for type-writers	557,474	Mar. 31	3547	848	74	1865
Blanding, Francis, Putnam, Conn. Boat-detaching apparatus	557,475	Mar. 31	3550	848	74	1865
Blank, August. (See Herzberg, Blank, and Israel.)						
Blank, August, A. Israel, and M. Herzberg, assignors to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Black azo dye and making same	561,694	June 9	1126		75	1608
Blank, Bernard H., assignor to Hammel, Riglander & Co., New York, N. Y. Opera-glass holder	567,215	Sept. 8	840	199	76	1452
Blanke, Louis H., assignor of one-half to H. F. Reitenbach, Fort Worth, Tex. Metal packing-case for food products	567,938	Sept. 15	2086	502	76	1699
Blankinsop, Thomas, and J. W. Brown, Martin's Ferry, Ohio. Insulator	562,166	June 16	1955	474	75	1782
Blasgow, David H., assignor to P. Garrahan and F. M. Neale, New York, N. Y. Rein-holder	553,219	Jan. 14	1326	322	74	263
Blasdel, Grant C., Hazleton, Pa. Razor-strop	572,784	Dec. 8	1236	299	77	1532
Blasius, Levin W., Philadelphia, Pa. Piano or similar stringed instrument	561,959	June 16	1600	{ 388 389 }	75	1718
Blasser, Ernest, et al. (See Jacobson, Edward B., assignor.)						
Blasser, Robert E., York, Pa. Pulp-feed regulator for paper-making machines	567,636	Sept. 15	1579	{ 380 381 }	76	1601
Blaubach, Albert, Milwaukee, Wis. Lawn-mower	571,550	Nov. 17	1993	474	77	1050
Blayne, William F. (See Welbourn, Josiah M., assignor.)						
Blecher, John F., Lawn, Pa. Fence	554,977	Feb. 18	2072	493	74	925
Blechschildt, Gustav. (See Blechschildt, Paul and G.)						
Blechschildt, Gustav, Pekin, and P. Blechschildt, Rock Island, Ill. Self-lubricating vehicle-hub	552,702	Jan. 7	353	93	74	69
Blechschildt, Paul. (See Blechschildt, Gustav and P.)						
Blechschildt, Paul and G., Rock Island, Ill. Match-safe	572,100	Dec. 1	10	3	77	1280
Bleier, Benjamin. (See Jenkins, Edward T., Sr., assignor.)						
Blessing, Charles A., Philadelphia, Pa. Joint or coupling for water-closet bowls, &c	557,645	Apr. 7	225	55	75	42
Blevney, John C., Newark, N. J., assignor to De La Vergne Bottle and Seal Company, of New Jersey. Cork-extractor	557,546	Apr. 7	25	7	75	7
Bliss, Abel, New Lenox, Ill. Roadway	573,757	Dec. 22	3001	711	77	1901
Bliss, Henry H., Washington, D. C. Mining-machine	568,329	Sept. 29	2798	{ 673 674 }	76	1860
Bliss, Henry H., Washington, D. C. Mining-machine	568,937	Oct. 6	368	85	77	71
Bliss, James F., Boston, Mass. Propelling apparatus for boats	568,831	Oct. 6	196	47	77	39
Bliss, Norman G., Colfax, Iowa. Potato-cutter	563,547	July 7	525	121	76	99
Bliss, Samuel B., Pasadena, Cal. Raisin-seeder	572,858	Dec. 8	1347	324	77	1555
Bliss, William L., Brooklyn, N. Y. System of automatic electric regulation	572,627	Dec. 8	947	230	77	1478
Bliss, William P., Aurora Springs, Mo. Lace-bearing for shoes	565,131	Aug. 4	319	77	76	676
Bliss, William P., Aurora Springs, Mo. Compound-lever vise	567,331	Sept. 8	1071	{ 255 256 }	76	1492
Bliven, Alonzo P., Brooklyn, N. Y. Tie-plate and spike for railway-rails	571,743	Nov. 24	2332	557	77	1133
Bliven, Alonzo P., Brooklyn, N. Y. Bottle	573,200	Dec. 15	1963	473	77	1690
Bloch, Edmond, Paris, France. Opera-glass	565,596	Aug. 11	1196	287	76	857
Bloch, F. O., et al. (See Lofgreen and Whisler, assignors.)						
Block, Charles W., et al. (See Reily, John P., assignor.)						
Block, Louis, New York, N. Y. Baling-press	553,227	Feb. 4	10	3, 4	74	507

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Blodgett, Elbert, Muskegon, Mich. Grain-tempering machine.....	570,449	Nov. 3	9	3	77	640
Bloede, Victor G., Catonsville, Md. Vapor-dyeing.....	570,115	Oct. 27	2458		77	504
Bloede, Victor G., Catonsville, Md. Vapor-dyeing.....	570,116	Oct. 27	2459		77	504
Bloede, Victor G., Catonsville, Md., assignor to Victor G. Bloede Company of Baltimore City. Dyeing anilin-black.....	570,117	Oct. 27	2460		77	504
Bloemker, Charles W., Philadelphia, Pa. Screw-cutting machine.....	558,713	Apr. 21	2107	509	75	430
Bloemker, Frank H., St. Louis, Mo. Bath-brush.....	559,434	May 5	155	33	75	711
Blom, Axel A. (See Leuzinger and Blom.)						
Blondel, Albert, and E. Porcher, Paris, France. Pianissimo attachment.....	554,387	Feb. 11	1044	243	74	714
Blondel, André, and S. Psaroudaki, Paris, France. Lamp-globe.....	563,836	July 14	1031	243 244 245	76	209
Blood, Charles W. H., assignor to S. A. Woods Machine Company, Boston, Mass. Grinding-machine.....	553,828	Feb. 4	13	4, 5	74	507
Blood, Charles W. H., assignor to S. A. Woods Machine Company, Boston, Mass. Pump.....	558,766	Apr. 21	2198	529	75	446
Blood, Charles W. H., assignor to S. A. Woods Machine Company, Boston, Mass. Chain-feed for woodworking-machines.....	562,756	June 23	2955	715 716	75	1987
Blood, Clarence C., and F. W. Allan, Kalamazoo, Mich. Bicycle.....	556,398	Mar. 17	1667	389	74	1474
Blood, Henry S., Park Rapids, Minn. Planter.....	568,598	Sept. 29	3298	791	76	1951
Blood, Maurice E., Kalamazoo, Mich. Book-holder.....	573,072	Dec. 15	1730	415	77	1647
Blood, Maurice E., assignor to Kalamazoo Cycle Company, Kalamazoo, Mich. Trousers-guard.....	558,146	Apr. 14	1133	276	75	232
Blood, Maurice E., assignor to Kalamazoo Cycle Company, Kalamazoo, Mich. Auxiliary seat and parcel-carrier for bicycles.....	560,187	May 19	1549	350	75	1040
Blood, Orville M., Elburn, Ill. Gate.....	552,683	Jan. 7	325	86	74	63
Bloodgood, Devan P. (See De Mott, Charles W., assignor.)						
Bloom, Jacob C., et al. (See Ivens, William H., Jr., assignor.)						
Bloom, William H., assignor to Mansfield Display Novelty Company, Mansfield, Ohio. Display-receptacle for barrel-covers.....	568,126	Sept. 22	2459	590	76	1780
Blount, Edward, assignor to Blount Turpentine Tool Company, Quitman, Ga. Turpentine-hack.....	554,210	Feb. 4	738	168	74	641
Blount, Edward, assignor to Blount Turpentine Tool Company, Quitman, Ga. Barrel-attachment.....	554,211	Feb. 4	739	168	74	641
Blount, Eugene I., Gardner, assignor to Blount Manufacturing Company, Boston, Mass. Door check and closer. (Reissue.).....	11,537	May 5	761	183	75	825
Blount, Frederick R., et al. (See Batty, Thomas, assignor.)						
Blount, John G., Everett, assignor to C. W. Fox, Saugus, Mass. Suppository-machine.....	569,985	Oct. 20	2222	527	77	445
Blount Manufacturing Company. (See Blount, Eugene I., assignor.) (Reissue.)						
Blount Turpentine Tool Company. (See Blount, Edward, assignor.)						
Blue, Charles E., assignor of one-fourth to A. G. Hubbard, Wheeling, W. Va. Machine for manufacturing glass bottles, &c.....	567,071	Sept. 1	596	139	76	1396
Blue, George B. M., Traverse City, Mich. Caster.....	574,017	Dec. 29	3480	831	77	2003
Blue, John F. (See Delane and Blue.)						
Bluet, Thomas W., Big Sandy, Mont. Tip for whip-stocks.....	566,129	Aug. 18	2152	525	76	1058
Blum, August, Jacksonville, Fla. Toy.....	563,354	July 7	210	47	76	42
Blum, John H., Batte, Mont. Steady-rest.....	562,271	June 16	2123	515	75	1814
Blumberg, Hyman, and L. Jacobson, New York, N. Y. Bottle-filling apparatus.....	571,104	Nov. 10	1242	289	77	897
Blumenberg, Henry, Jr., Wakefield, N. Y. Electrolysis.....	565,324	Aug. 4	687	165	76	743
Blumenberg, Julius. (See Lipphardt and Blumenberg.)						
Blumenfeld, Harry D., New York, N. Y. Grinding-stone.....	557,301	Mar. 31	3253	780	74	1808
Blumer, Doscher Manufacturing Company. (See Blumer, James, assignor.)						
Blumer, Jacob, Brooklyn, and C. Schlagenhauser, New York, N. Y., assignors to R. N. Dyer, trustee, East Orange, N. J. Making yeast.....	563,124	June 30	3652		75	2141
Blumer, James, assignor to Blumer, Doscher Manufacturing Company, Brooklyn, N. Y. Corrugating and cutting tool.....	570,218	Oct. 27	2639	625	77	538
Blundell, John C., Providence, R. I., assignor to Greenwood Dyeing Machine Company, of Maine. Machine for dyeing yarn.....	554,646	Feb. 18	1502	352 353 354	74	816
Blundell, John C., Providence, R. I., assignor to Greenwood Dyeing Machine Company, of Maine. Apparatus for dyeing yarn.....	560,019	May 12	1230	275	75	928
Blundell, John C., Providence, R. I., assignor to Greenwood Dyeing Machine Company, of Maine. Yarn-dyeing machine.....	560,020	May 12	1232	276 277	75	928
Bluntach, Alexander J., Olivia, Minn. Lawn-mower.....	561,479	June 2	740	182	75	1510
Bly, John, Titusville, assignor of one-half to F. Higgins, Warren, Pa. Support for power-transmitting rods.....	553,665	Jan. 28	2110	499	74	436
Blydenburgh, Charles M., Riverhead, N. Y. Hammer.....	559,049	Apr. 28	2693	656	75	557
Blymyer Iron-Works Company. (See Coppin, Daniel F., assignor.)						
Blyth, Alfred, et al. (See Manning, Daniel F., assignor.)						
Blyth, Alfred, et al. (See McCreary, Edward, assignor.)						
Boal, Stanhope, Piqua, Ohio. Cooking-stove.....	560,676	May 26	2470	566	75	1220
Board, Jason W., and E. B. Hyre, Elk Fork, W. Va.; said Hyre assignor to said Board. Churn.....	567,449	Sept. 8	1267	307	76	1528
Boardman, Alfred D., Sumner, Wash. Bottle.....	562,794	June 30	3025	730	75	2018
Boardman, Alphonso F., Brooklyn, N. Y. Steering-gear for bicycles.....	565,718	Aug. 11	1413	344	76	899
Boardman, Harris. (See Boardman, Walter and H.)						
Boardman, Walter and H., Lancaster, Pa. Electric switch.....	573,807	Dec. 22	3080	731	77	1916
Bobrick, Gabriel A., Boston, Mass. Adjustable support for furniture.....	563,010	June 30	3433	826	75	2100
Bobrick, Gabriel A., Boston, Mass. Adjustable furniture.....	567,762	Sept. 15	1789	429	76	1643
Bock, Christian H. R., Leipsic-Gohlis, Germany. Music-box.....	555,757	Mar. 3	457	109	74	1212
Bock, Johan, New York, N. Y. Combined couch, bed, and bath-tub.....	569,001	Oct. 6	499	112	77	95
Bodden, William. (See Ashton, Frank, assignor.)						
Bodell, Allen W., Chicago, Ill. Gas or oil engine.....	563,548	July 7	526	122	76	100
Boden, George, assignor to Oakville Company, Waterbury, Conn. Safety-pin.....	553,049	Jan. 14	1019	249	74	205
Bodenhamer, William H., Hueneme, Cal. Moldboard-fastener.....	567,289	Sept. 8	985	233	76	1477
Bodenstab, John, New York, N. Y. Curtain-fixture.....	557,183	Mar. 31	3021	722	74	1769
Bodenstein, John G., Staatsburg, N. Y. Ice-cultivator.....	558,254	Apr. 14	1318	321 322	75	266
Bodge, John P. (See Colby, Eugene P., assignor.)						
Bodley, James W. (See Mallon, James, assignor.)						
Bodmer, Christian. (See Traut and Bodmer.)						
Boeddinghaus, Julius, Dusseldorf, Germany. Screw-fastener.....	556,082	Mar. 10	1062	253	74	1346
Boehm, Edward, Woodbury, N. J. Artificial stone.....	569,002	Oct. 6	500	113	77	95
Boehm, Ernest A., St. Louis, Mo. Coupler for keyboards of pianos.....	553,829	Feb. 4	17	5	74	508

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Boehm, Isaac, <i>et al.</i> (See Nutting, Granville, assignor.)						
Boehmer, Herman F., St. Louis, Mo. Soft-tread horseshoe	560,119	May 12	1425	320	75	966
Boehringer & Soehne, C. F. (See Ach, Fritz, assignor.)						
Boehringer & Soehne, C. F. (See Fischer, Emil, assignor.)						
Boehringer & Soehne, C. F. (See Schmiedeberg, Oswald, assignor.)						
Boehringer Sohn, Firm of C. H. (See Ganswindt, Albert, assignor.)						
Boekel, Julius. (See Boekel, William and J.)						
Boekel, William and J., Philadelphia, Pa. Mercury test-gage	559,767	May 5	720	170	75	818
Boelke, Gustave, <i>et al.</i> (See Conrad, Charles P., assignor.)						
Boemermann, Henry, and O. Olsen, Brooklyn, N. Y. Car-fender	557,951	Apr. 7	759	181	75	142
Boening, William M., and J. Gilson, Port Washington, Wis. Rocker	558,476	Apr. 21	1710	414	75	357
Boericke, Rudolph, Philadelphia, Pa., assignor to Stein & Boericke, Limited. Coal or ore washer	555,920	Mar. 10	746	179 180	74	1389
Boettcher, Friedrich W. G., Duluth, Minn. Display apparatus	569,950	Oct. 20	2169	514 515	77	436
Boettcher, Friedrich W. G., Duluth, Minn. Sounding device	571,639	Nov. 17	2137	513	77	1077
Boettner, Julius, and T. Dicke, Hoboken, N. J., assignors of one-third to J. Schwencke, New York, N. Y. Sensitized photographic paper	557,047	Mar. 24	2790		74	1702
Bofinger, William H. (See Respass, William R., Jr., assignor.)						
Bogart, Harry G. (See Hoffman, George A., assignor.)						
Bogardus, Alfred, Jersey City, N. J. Hoisting device	565,402	Aug. 4	817	193	76	768
Bogart, Samuel S., Schraalenburg, N. J., assignor to Electric Selector and Signal Company, of West Virginia. Electrical signaling apparatus	563,442	July 7	351	81	76	68
Bogart, Samuel S., Schraalenburg, N. J., assignor to Electric Selector and Signal Company, of West Virginia. Electrical selector	563,443	July 7	352	81	76	69
Bogert, John L., Flushing, N. Y. Changeable speed-gearing	563,443	Feb. 4	444	98	74	586
Bogert, John L., Flushing, N. Y. Crank-axle lathe	568,063	Sept. 22	2335	564 565	76	1756
Bogert, John L., Flushing, N. Y. Changeable-speed gearing	568,064	Sept. 22	2339	565	76	1757
Boggemann, Joseph M. (See Wyant, Christopher M., assignor.)						
Boggs, John W., Huntington, Oreg. Draw-bar for railway-cars	553,387	Jan. 21	1626	387 388	74	332
Boggs, John W., and A. Cameron, Portland, Oreg.; said Boggs assignor to said Cameron. Dry-dock	566,734	Sept. 1	5	2	76	1281
Boggs Twin Stay Fence Company. (See Boggs, William H., assignor.)						
Boggs, William H., assignor to Boggs Twin Stay Fence Company, Covington, Ohio. Wire-fence stay	561,534	June 2	850	204	75	1530
Bogler, Philip, Alamosa, Colo. Car-coupling	566,650	Aug. 25	3039	743	76	1243
Bohannon, Jenetta V., assignor of one-fourth to J. T. Jones, Baltimore, Md. Ice-shaving machine	571,609	Nov. 17	2087	501	77	1067
Bohannon, Wilson T., Brooklyn, N. Y. Lock	557,952	Apr. 7	760	181	75	143
Bohlen, Albert E. (See Outhouse and Bohlen.)						
Bohler, Albert, <i>et al.</i> (See Outhouse, Thomas A., assignor.)						
Bohling, George B., Versailles, Mo. Watchman's time-recorder	558,477	Apr. 21	1712	414	75	357
Bohls Cigarette Machine Company. (See Bohls, Henry, assignor.)						
Bohls, Henry, San Francisco, Cal., assignor to Bohls Cigarette Machine Company, Richmond, Va. Cigarette-machine	554,575	Feb. 11	1360	318 319 321	74	774
Böhm, Ludwig K., New York, N. Y., assignor to American Incandescent Light Company, of West Virginia. Composition of material for incandescent gas-lights	572,101	Dec. 1	12		77	1280
Bohn, Adam E., Allegheny, Pa. Weighing flour-bin	553,606	Jan. 28	2013	476	74	420
Bohon, Joseph A., assignor of one-half to P. K. Adams, Terra Alta, W. Va. Water-carrier	571,640	Nov. 17	2139	513	77	1078
Bohrisch, Richard. (See Marcotte, Ephrem, assignor.)						
Bohy, Aimé, What Cheer, Iowa. Detachable fastening for tool-handles	573,565	Dec. 22	2649	629	77	1833
Bohy, Alfred. (See Fritz and Bohy.)						
Bohy, Alfred, and L. Fritz, What Cheer, Iowa. Fastening for tool-handles	567,676	Sept. 15	1647	397	76	1616
Boice, John R., Toledo, Ohio. Cushion-tire for vehicles	569,403	Oct. 13	1187	280	77	242
Boies, Henry M., Scranton, Pa., assignor to Boies Steel Wheel Company, of Pennsylvania. Tramway-car	564,551	July 21	2225	536 537	76	451
Boies, Henry M., Scranton, Pa., assignor to Boies Steel Wheel Company, of Pennsylvania. Tramway-car	564,552	July 21	2228	537 538	76	451
Boies Steel Wheel Company. (See Boies, Henry M., assignor.)						
Boisselier, Astor, London, England. Cap for bottles	563,125	June 30	3653	874	75	2141
Boisvert, William R., Lewis, Canada. Spring-bed	569,994	Oct. 27	2243	532	77	462
Bokern, William von. (See McKiniry and Bokern.)						
Boland, Frank P., Providence, R. I. Automatic extinguisher for kerosene-burners	554,978	Feb. 18	2074	494	74	925
Boland, Frank P., Providence, R. I. Lamp-burner	563,549	July 7	533	122	76	101
Boland, Joseph, and G. W. Fritz, Pittsburg, Pa. Mining-machine	571,259	Nov. 10	1491	350 351	77	944
Bolenbaugh, Cyrus, E. B. Wagner, and H. P. Crockett, Jackson, Mich.; said Bolenbaugh and Wagner assignors of one-sixth to said Crockett. Flour-dressing reel	560,835	May 26	2741	628 629	75	1273
Bolend, Charles H., Milwaukee, Wis. Soda-water fountain	559,435	May 5	156	34	75	711
Bolens, Harry W. (See Gilson and Bolens.)						
Bolger, Harry W., Port Washington, Wis. Chair	568,127	Sept. 22	2460	591	76	1780
Bolger, Joseph J., assignor of one-third to C. Meerse, Chicago, Ill. Automatic car-coupling	572,954	Dec. 15	1527	365	77	1607
Bolger, William T., Rutland, Vt. Music-rack	567,072	Sept. 1	600	140	76	1396
Bolin, Hezekiah M., assignor of one-half to J. G. Gagel, Dayton, Ohio. Boiler compound or solvent distributor	552,863	Jan. 7	676	165	74	128
Bolinger, William, assignor of one-half to W. S. Slough, Eureka, Kans. Fruit-evaporator	552,981	Jan. 14	916	222	74	185
Bollée, Léon, Mans, France. Calculating-machine	556,720	Mar. 17	2206	516 517	74	1575
Bolles, Archibald L., assignor of one-half to F. C. Kohart, Brooklyn, N. Y. Revolving window-sash	554,231	Feb. 11	766	175	74	661
Bolles, Luzerne M., Brooklyn, N. Y. Support for window-sashes	571,551	Nov. 17	1994	474	77	1050
Bollinckx, Arthur, Brussels, Belgium. Exhaust-valve for steam-engines	561,197	June 2	222	53	75	1410
Bollinger, Alexander M., Williamsport, Pa. Shoe	556,801	Mar. 24	2367	557	74	1622
Bollinger, Alexander M., Williamsport, Pa. Shoe	561,645	June 9	1038	250	75	1591
Bollinger, Alexander M., Williamsport, Pa. Combination secretary and desk	566,735	Sept. 1	6	2	76	1282
Bolon, Robert C., Lineville, Iowa. Wire-stretcher	554,765	Feb. 18	1707	400	74	856
Bolser, Charles F., <i>et al.</i> (See Gage, Seth H., assignor.)						
Bolt, Joseph, Cranbury, N. J. Umbrella-carrier	559,053	Apr. 28	2699	657	75	558

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Bolte Cycle Manufacturing Company. (See Bolte, Frank H., assignor.)						
Bolte Cycle Manufacturing Company. (See Bolte, Donlevy, and Connell, assignors.)						
Bolte, Frank H., assignor, by mesne assignments, to Bolte Cycle Manufacturing Company, Milwaukee, Wis. Velocipede	558,928	Apr. 28	2487	604	75	517
Bolte, Frank H., assignor to Bolte Cycle Manufacturing Company, Milwaukee, Wis. Bicycle	571,941	Nov. 24	2692	637	77	1202
Bolte, Frank H., T. A. Donlevy, and J. R. Connell, assignors to Bolte Cycle Manufacturing Company, Milwaukee, Wis. Velocipede	558,929	Apr. 28	2488	604	75	517
Bolte, Frank H., T. A. Donlevy, and J. R. Connell, assignors to Bolte Cycle Manufacturing Company, Milwaukee, Wis. Vehicle-wheel	558,930	Apr. 28	2489	605	75	518
Bolte, Frank H., T. A. Donlevy, and J. R. Connell, assignors to Bolte Cycle Manufacturing Company, Milwaukee, Wis. Vise	565,425	Aug. 11	859	203	76	795
Bolthoff, Henry, Denver, Colo. Ore-feeder for stamp-mills	563,217	June 30	3804	{ 911 912 }	75	2170
Bolthoff, Henry, Denver, Colo. Hoisting-machine	568,832	Oct. 6	198	47, 48	77	39
Bolton, James, Chicago, Ill. Sewing-machine take-up	568,559	Sept. 29	3210	{ 773 774 }	76	1935
Bolton, James, Chicago, Ill., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine table	552,507	Jan. 7	10	3	74	5
Bolton, James, Chicago, Ill., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine stand	552,508	Jan. 7	11	4	74	5
Bolton, James, and A. Rontke, Chicago, Ill., assignors to Singer Manufacturing Company, of New Jersey. Sewing-machine	552,509	Jan. 7	12	4, 5	74	5
Bolton, James M., Sioux City, Iowa. Apparatus for making steam-pipe coverings	555,071	Feb. 25	2260	539	74	973
Bolton, James M., and G. H. Howell, Sioux City, Iowa. Upholstering-pin	570,838	Nov. 3	762	174	77	780
Bolton, John T., assignor of one-third to G. Grime, Fall River, Mass. Harness-motion for looms	556,455	Mar. 17	1780	{ 412 413 }	74	1495
Bolton, John T., assignor of one-third to G. Grime, Fall River, Mass. Lappet-loom	561,646	June 9	1039	250	75	1591
Bolton, John T., assignor of one-third to G. Grime, Fall River, Mass. Lappet-loom	561,647	June 9	1041	251	75	1592
Bolton, John T., assignor of one-third to G. Grime, Fall River, Mass. Lappet-loom	561,648	June 9	1043	{ 251 252 253 }	75	1592
Bolton, John T., assignor of one-third to G. Grime, Fall River, Mass. Lappet-loom	561,649	June 9	1044	{ 252 253 }	75	1592
Bolton, McLean, New York, N. Y. Toy	553,830	Feb. 4	19	6	74	508
Bolton, Orrin B., Grand Rapids, Mich. Combined saw stretcher and shears	566,651	Aug. 25	3041	743	76	1244
Bolton, William B., Sharpsville, Pa. Wash-tub	563,908	July 14	1181	278	76	236
Boltz, Adam, New York, N. Y. Puzzle	568,232	Sept. 22	2638	633	76	1814
Bolus, William G., assignor to S. J. Cushman, Rochester, N. Y. Kettle-holder and strainer	567,763	Sept. 15	1791	429	76	1643
Bolus, William G., assignor of two-thirds to S. J. Cushman and A. E. Carpenter, Rochester, N. Y. Culinary utensil	554,048	Feb. 4	447	99	74	586
Boluss, Alfred R., assignor of one-half to C. Linn, Jersey City, N. J. Valve for steering apparatus, elevators, &c.	570,246	Oct. 27	2693	640	77	548
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Pencil	554,212	Feb. 4	740	168	74	641
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Lead-pencil	562,272	June 16	2125	515	75	1814
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Machine for cutting helically-coiled shavings or strips	562,273	June 16	2125	{ 515 516 }	75	1814
Boman; Marian W. (See Reeves and Boman.)						
Bombard, Felix, et al. (See Lamontagne, Joseph, assignor.)						
Bombriant, William, et al. (See Lamontagne, Joseph, assignor.)						
Bonar, James, Pittsburg, Pa. Combined heater and purifier	572,955	Dec. 15	1528	366	77	1607
Bonar, James, Pittsburg, and W. L. Rodgers, Allegheny, Pa. Feed-water purifier and heater	558,147	Apr. 14	1135	277	75	232
Bond, George D., Hillsborough, Tex. Autographic register	570,535	Nov. 3	177	47, 48	77	670
Bond, George T., Topeka, Kans. Roller-skate	572,403	Dec. 1	575	136	77	1387
Bond, George W., Adrian, Mich. Anchorage for fence-posts	552,885	Jan. 14	733	178	74	151
Bond, John, Turlock, Cal. Device for propelling vessels	569,951	Oct. 20	2171	515	77	436
Bond, Willard H., Watertown, and T. L. Barlow, Boston, Mass., assignors to Barlow Manufacturing Company. Advertising-sign holder	554,857	Feb. 18	1870	440	74	888
Bond, William B., Personville, Tex. Dish-cleaner	553,329	Jan. 21	1530	366	74	314
Bond, William L., Pittsburg, assignor to F. A. Dutt, Philadelphia, Pa. Box for mailing	561,535	June 2	851	205	75	1530
Bond, William M., New Castle, Ind. Clover-harvester attachment for mowers	558,478	Apr. 21	1713	414	75	357
Bonds, Edward K. (See Wallace, Dewitt C., assignor.)						
Bonderson, Adolf W., Bernadotte, Minn. Car-coupling	560,254	May 19	1684	384	75	1064
Boneberg, Edwin H., Buffalo, N. Y. Lock	559,991	May 12	1178	262	75	920
Bonebrake, Millard P., Stockton, Kans. Tablet-machine for stenographers' use	571,149	Nov. 10	1320	307	77	912
Bonet, Joseph J., Iron Mountain, Mich. Plow	556,247	Mar. 10	1359	320	74	1400
Bonenberger, George, Evansville, assignor to Automatic Mine Door Company, Terre Haute, Ind. Mine trap-door	561,369	June 2	543	137	75	1475
Bonenberger, George, Evansville, assignor to Automatic Mine Door Company, Terre Haute, Ind. Mine trap-door	569,952	Oct. 20	2173	{ 515 516 }	77	437
Boney, Arthur T. and W. J. Cairo, Mo. Cultivator attachment	554,647	Feb. 18	1507	354	74	817
Boney, William J. (See Boney, Arthur T. and W. J.)						
Boniface, William J., Southampton, England. File case or cabinet	562,352	June 16	2270	{ 550 551 }	75	1841
Bonn, John E. J., Brading, England. Box or container for rosin, &c.	562,795	June 30	3026	730	75	2018
Bonnallie, David G., assignor of one-half to J. R. Brown, Detroit, Mich. Brush-head	569,003	Oct. 6	501	113	77	95
Bonnell, Harvey S., Guthrie, Okla. Thrashing-machine	553,894	Feb. 4	158	33, 34	74	535
Bonnet, Charles J., Quincy, Ill. Grate	564,864	July 28	2838	678	76	570
Bonnet, Joseph. (See Placet and Bonnet.)						
Bonnett, Clarence R., Allegheny, assignor of one-half to W. R. Marvin, Pittsburg, Pa. Shelf for baking-ovens	557,759	Apr. 7	424	{ 100 101 }	75	81
Bonneville, Clifford, Allentown, Pa. Method of and apparatus for calcining cement	568,599	Sept. 29	3301	791	76	1952
Bonney, Charles A., assignor to Brockton Folding Machine Company, Brockton, Mass. Leather-snipping machine	572,352	Dec. 1	470	110	77	1367
Bonney, John C. G., Brooklyn, N. Y. Speed-indicator for bicycles	555,492	Mar. 3	13	4	74	1133
Bonney, Peter I., Hyde Park, Mass. Mounting chromos	572,956	Dec. 15	1530	366	77	1607
Bonnoront, Alphonse, Paris, France. Apparatus for raising and drawing off liquids	554,576	Feb. 11	1366	321	74	776
Bonnot Company. (See Frey, James A., assignor.)						
Bonowitz, Jacob, Philadelphia, Pa. Sifter for ashes, &c.	569,320	Oct. 13	1047	248	77	216
Bonsack, James A., Philadelphia, Pa., assignor to Bonsack Machine Company, Salem, Va. Cigarette-tube machine	565,853	Aug. 11	1652	{ 405 406 407 408 409 410 }	76	944
Bonsack, James A., Philadelphia, Pa., assignor to Bonsack Machine Company, Salem, Va. Apparatus for cutting cigarette-blanks	566,054	Aug. 18	2018	{ 489 490 491 }	76	1034

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Bonsack, James A., Philadelphia, Pa., assignor to Bonsack Machine Company, Salem, Va. Cigarette-machine	572,152	Dec. 1	101	24	77	1297
Bonsack, James A., Philadelphia, Pa., assignor to Bonsack Machine Company, Salem, Va. Cigarette-machine	573,640	Dec. 22	2800	{ 662 663	77	1864
Bonsack Machine Company. (See Bilgram, Hugo, assignor.)						
Bonsack Machine Company. (See Bonsack, James A., assignor.)						
Bonsack Machine Company. (See Carper, Kent H., assignor.)						
Bonsack Machine Company. (See Evans, Nash J., assignor.)						
Bonsack Machine Company. (See Strouse, Demetrius B., assignor.)						
Bonshire, Jacob, assignor of one-half to D. O. Skillen, Yorktown, Ind. Lid-fastener for fruit-jars, &c	559,564	May 5	369	89	75	754
Bonsor, W., et al. (See Bartlett, Edward C., assignor.)						
Bonta, Arthur K., assignor to Bonta Manufacturing Company, Hoboken, N. J. Combined car brake and fender	554,018	Feb. 4	395	86	74	577
Bonta, Arthur K., Hoboken, N. J., assignor to Bonta Manufacturing Company, of New Jersey. Automatic engine-stop	569,445	Oct. 13	1251	{ 293 294	77	253
Bonta Manufacturing Company. (See Bonta, Arthur K., assignor.)						
Bontly, John. (See Knobel and Bontly.)						
Bonvillain, Philibert, Neuilly, France. Hydraulic separator for town refuse	566,888	Sept. 1	258	59, 60	76	1331
Booge, Harris D., et al. (See Chesney, Oliver M., assignor.)						
Booher, Jacob A., Pittsburg, Pa. Picture-frame	560,080	May 12	1350	303	75	950
Book, Helena A., Waterbury, Conn. Sash-fastener	557,953	Apr. 7	761	181	75	143
Booker, Charles, Toronto, Canada. Device for preventing refilling bottles	561,084	June 2	10	3	75	1369
Bookwalter, Francis M., Springfield, Ohio. Hurdy-gurdy water-wheel	553,097	Jan. 14	1117	271	74	224
Bookwalter, Francis M., Springfield, Ohio. Hydraulic nozzle	566,736	Sept. 1	8	2	76	1282
Boom, George E., New York, N. Y. Rotary engine	557,476	Mar. 31	3552	{ 848 849	74	1866
Boon, Horace J., Calumet, Mich. Speed-indicator	557,954	Apr. 7	762	182	75	143
Boon, Horace J., Calumet, Mich. Speed-measure for vehicles	567,260	Sept. 8	920	220	76	1466
Booraem, John V. V., Brooklyn, N. Y. Tile for walls	555,672	Mar. 3	330	75	74	1189
Booraem, William E., Brooklyn, N. Y. Tidal wheel	568,330	Sept. 29	2802	674	76	1861
Boos, Edward, Bellevue, Ohio. Cultivator-tooth	560,677	May 26	2472	566	75	1221
Boose, Norman T., Rockwood, Pa. Chock-block	571,641	Nov. 17	2140	514	77	1078
Booth, Albert C., Cedar Rapids, Iowa. Automatic cut-out for electrical transformers	569,538	Oct. 13	1406	332	77	282
Booth, Alonzo, Sigurd, Utah. Sand-guard	562,115	June 16	1871	454	75	1766
Booth, Charles W., Waukesha, Wis. Pastry-loosener	562,275	June 16	2127	516	75	1814
Booth, Edwin, et al. (See Edwards, Curtis G., assignor.)						
Booth, George R., assignor to A. A. Glines, Boston, Mass. Mount for pictures or photographs	561,480	June 2	741	182	75	1510
Booth, Harrison F. B., et al. (See Cochran, Philip W., assignor.)						
Booth, James J., and W. Elin, Pittsburg, Pa. Paving-roller	562,167	June 12	1956	474	75	1783
Booth, Margaret C., Haverford, Pa. Focusing attachment for cameras	559,885	May 16	986	219	75	882
Booth, Robert, Malden, Mass. Game apparatus	557,646	Apr. 7	226	55	75	43
Booth, Thomas B., assignor of one-half to A. Robinson, Boston, Mass. Apparatus for carbonating beer, ale, &c	565,597	Aug. 11	1197	287	76	857
Booth, Thomas B., assignor of one-half to A. Robinson, Boston, Mass. Bottle-filling machine	565,598	Aug. 11	1198	288	76	857
Booth, William, Los Angeles, Cal. Oil-burner for locomotives	554,435	Feb. 11	1138	265	74	732
Booth, William, Los Angeles, Cal. Oil-burner for locomotives	554,436	Feb. 11	1139	266	74	733
Boothman, Melvin M., and G. W. Bushong, Bryan, Ohio. Machine for turning leaves of music	559,355	May 5	8	3	75	682
Booz, Henry N., Philadelphia, Pa. Roller shelving	554,213	Feb. 4	742	169	74	641
Booz, Henry N., Philadelphia, Pa. File-case and file	562,370	June 23	2298	{ 558 559	75	1862
Bopp, Amos, Hagerstown, Md. Car-coupling	572,288	Dec. 1	354	84	77	1347
Borbridge, William E., Ottawa, Canada. Locomotive exhaust-pipe	567,122	Sept. 8	697	161	76	1425
Borchardt, Hugo, Berlin, Germany. Recoil magazine-pistol	571,260	Nov. 10	1493	{ 351 352	77	944
Borchardt, Oswald F. E., New York, N. Y. Corset-fastening	554,648	Feb. 18	1509	354	74	817
Borchers, Richard C., and I. N. Forrester, Philadelphia, Pa.; said Forrester assignor to said Borchers. Machine for measuring and marking fabrics	553,895	Feb. 4	159	35	74	536
Borchers, Wilhelm, Duisburg, Germany. Transforming chemical energy of fuel into electrical energy	567,959	Sept. 22	2130	513	76	1721
Bordeaux, David J. (See Messier and Bordeaux.)						
Borel, F ançois, Cortaillod, Switzerland. Electric cable	573,176	Dec. 15	1916	460	77	1681
Borger, Paul. (See Chapman, Borger, and Linton.)						
Borgerding, Rudolph, Washington, D. C. Corn or bunion plaster	557,251	Mar. 31	3164	759	74	1791
Boring, Charles O. (See Summers and Boring.)						
Borios, Alphonse, La Sarraz, Switzerland. Sliver-dividing device for carding-machines	561,960	June 16	1603	389	75	1718
Borios, Alphonse, La Sarraz, Switzerland. Lapping-machine	566,372	Aug. 25	2571	628	76	1154
Borios, Alphonse, La Sarraz, Switzerland. Feeding apparatus for carding-engines	572,153	Dec. 1	106	25	77	1298
Borland, Albert W., and C. M. Law, Conotton, Ohio. Elevated carrier	558,148	Apr. 14	1137	277	75	233
Borland, Frederick J., Leeds, England. Electric-arc lamp	552,982	Jan. 14	917	222	74	186
Borland, George, and A. K. Sherwood, assignors to Hartford Carpet Company, Thompsonville, Conn. Loom	572,926	Dec. 8	1468	353	77	1580
Borley, W. Ernest, et al. (See Tallerday, Franklin G., assignor.)						
Bornand, Joseph, New York, N. Y. Music-box	574,299	Dec. 29	4029	957	77	2102
Borne, E. M., et al. (See Bartlett, Edward C., assignor.)						
Borneman, Louis A., et al. (See Ertheiler, Philip H., assignor.)						
Bornschein, Joseph J. (See Wallace, De Witt C., assignor.)						
Börreson, Börre H., assignor of one-half to B. A. Jackson, Minneapolis, Minn. Trolley-pole safety device	573,257	Dec. 15	2056	492	77	1707
Borrett, Joseph H., London, England. Sole or heel	555,558	Mar. 3	128	29	74	1154
Borry, Alexander G., New York, N. Y. Globe or chimney	556,083	Mar. 10	1062	253	74	1346
Borry, Alexander G., New York, N. Y. Chimney	571,333	Nov. 17	1621	386	77	983
Borsch, Henry, Chicago, Ill. Nose-piece for eyeglasses	564,501	July 21	2200	516	76	436
Borsch, Henry, Chicago, Ill. Nose-piece for eyeglasses	568,294	Sept. 22	2737	657	76	1833
Borsch, John L., Philadelphia, Pa. Nose-piece for eyeglasses	563,126	June 30	8654	875	75	2142
Borton, Joseph H., trustee. (See Lake, Vincent F., assignor.)						
Borton, Stockton. (See Willcox and Borton.)						
Borton, Stockton, Providence, R. I., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Edging for lace	556,300	Mar. 10	1493	347	74	1425
Borton, Stockton, Brooklyn, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine	561,043	May 26	3103	{ 715 716	75	1341

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Borton, Stockton, Brooklyn, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Pull-off device for sewing-machines	572,048	Nov. 24	2567	674	77	1234
Borton, Stockton, Brooklyn, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Lock-stitch sewing-machine	572,090	Nov. 24	2989	702 703	77	1255
Bosart, Timothy L. (See Nesom, Thomas, assignor.)						
Boschert, Rufus E. (See Blanchard, Kirk S., assignor.)						
Bosley, Daniel W. (See Fairchild, Charles B., assignor.)						
Bosley, Daniel W., Chicago, Ill. Machine for manufacturing metallic-framed weather-strips	554,907	Feb. 18	1954	460	74	903
Bosley, Winfield S., assignor to Western Electric Company, Chicago, Ill. Arc-lamp hanger	566,652	Aug. 25	3042	743	76	1244
Boas, Addy A., et al. (See Davey, Foriest, assignor.)						
Boas Manufacturing Company et al. (See Buchanan, Laughlin M., assignor.)						
Boas, Martin J., et al. (See Davey, Foriest, assignor.)						
Boas, Martin P., San Francisco, Cal. Boiler	557,354	Mar. 31	3345	803	74	1827
Bosselaer, Jean M., and J. F. M. Van den Elshout, Brussels, Belgium. Apparatus for manufacturing gas	558,710	Apr. 21	2102	508	75	429
Bossler, Joseph L., Alton, Ill. Sash-fastener	567,073	Sept. 1	601	140	76	1396
Bossert Electric Construction Company. (See Bossert, William F., assignor.)						
Bossert, William F., Utica, N. Y. Junction fuse and switch box	552,658	Jan. 7	276	75	74	54
Bossert, William F., Utica, N. Y., assignor to Bossert Electric Construction Company. Electric wall-box	571,297	Nov. 10	1561	371	77	958
Bostad, Christian, and O. O. Krabøl, assignors to Automatic Folding Bed Company, Chicago, Ill. Revolving furniture	556,732	Mar. 24	2238	523	74	1598
Bostedo, Louis G., Chicago, Ill. Cash and parcel carrier	559,095	Apr. 28	2775	673	75	573
Bostedo, Louis G., Chicago, Ill. Despatch-tube switch	563,550	July 7	534	123	76	101
Bostedo, Louis G., Chicago, Ill. Receiving-box for pneumatic-despatch tubes	564,965	Aug. 4	8	2	76	618
Boston Automatic Fire Alarm Company. (See Burgher, Charles, assignor.)						
Boston Electric Insulated Pole Company. (See Buckner, James, assignor.)						
Boston Fast Color Eyelet Company. (See Kempshall, Eleazer, assignor.)						
Boston, Francis A., Jr., Baltimore, Md. Transfer-ticket for street-railways	567,374	Sept. 8	1147	275	76	1506
Boston, Frank E. (See Dean, Cunningham, Boston, and Dean.)						
Boston Lasting Machine Company. (See Stevens, Henry E., assignor.)						
Boston Lasting Machine Company. (See Stewart, Charles E., assignor.)						
Boston Rubber Shoe Company. (See Kinsley, William B., assignor.)						
Boston Rubber Shoe Company. (See Norris, Webster, assignor.)						
Boston Shelving Company. (See Godfrey, Charles B., assignor.)						
Boston Wood Rim Company. (See Killam, James C., assignor.)						
Boston Wood Rim Company. (See Stall and Walton, assignors.)						
Boston Woven Hose and Rubber Company. (See Cowen, Robert, assignor.)						
Bostwick, Arthur B., Brooklyn, N. Y. Picture-support or card-holder	560,465	May 19	2059	469	75	1129
Bostwick & Burgess Manufacturing Company. (See Burgess, Charles W., assignor.)						
Bostwick, Charles F. (See Mertens and Bostwick.)						
Bostwick, George C., assignor of one-half to S. M. Hall, Kansas City, Kans. Hame-fastener	573,131	Dec. 15	1840	443	77	1668
Bostwick, John R., Clifton Springs, N. Y. Stovepipe-thimble	569,165	Oct. 13	772	179	77	163
Bostwick, Oliver F., Atchison, Kans. Pump	567,533	Sept. 8	1395	335	76	1551
Boaswell, George G. F., assignor of one-half to J. Freiberg and H. Techintin, Indianapolis, Ind. Doubletree	567,939	Sept. 15	2087	503	76	1699
Bosworth, Charles B., Everett, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Feed-water regulator	558,598	Apr. 21	1912	465	75	394
Bosworth, Osseana E., Providence, R. I. Syringe	568,331	Sept. 29	2803	674	76	1661
Bosworth, Peleg S. (See Lewis and Bosworth.)						
Botschen, Hugo, Vienna, Austria-Hungary. Printing velvet, &c., with metal or bronze colors	559,967	May 12	1134	253	75	912
Bott, William W. (See Hungerford and Bott.)						
Botto, Mary G., Philadelphia, Pa. Hook and eye	569,607	Oct. 20	1553	365	77	324
Boucharat, Auguste, Guston, Colo. Device for converting motion	563,444	July 7	354	81	76	69
Boucharat, Charles, Chicago, Ill. Door for refrigerator-cars	567,880	Sept. 15	1987	477	76	1682
Boucher, Anthelme E. W., Prilly, Switzerland, assignor to Société d'Electro-Chimie, Paris, France. Secondary battery	553,331	Feb. 4	20	6	74	508
Boucher, Pierre N., Sherbrooke, Canada. Roller-bearing for railway-car axles	553,773	Jan. 28	2289	542 543	74	472
Bouck, Charles W. (See Gilbert, Henry T. J., assignor.)						
Bouck, John M., Gouverneur, N. Y. Valve mechanism	569,166	Oct. 13	773	180	77	163
Boudreau, Napoleon J., East St. Louis, Ill. Clothes-line fastener	566,293	Aug. 25	2410	592	76	1124
Boudreaux, Norbert, Houma, La. Oyster-dredger	558,767	Apr. 21	2199	529 530	75	446
Boughton, Frank P., et al. (See Muckenbirm, Charles P., assignor.)						
Boughton, William G., Frostburg, Md. Extension-table	552,510	Jan. 7	15	5	74	6
Boughton, William G., Frostburg, Md. Furniture-leg	554,578	Feb. 11	1369	322	74	776
Bouillotte, Francis L., Alexandria, La. Sugar-cane unloader	556,456	Mar. 17	1782	413	74	1496
Boulanger, Emile, St. Louis, Mo. Drum	573,320	Dec. 15	2189	523	77	1730
Boulder Novelty Company. (See Mallinckrodt, John F., assignor.)						
Boulter, Mark E., Somerville, Mass., assignor to Automatic Track Sanding Company, Portland, Me., and Boston, Mass. Automatic valve for track-sanding apparatus	572,087	Nov. 24	2972	698 699	77	1253
Boulter, Royal L., Grand Forks, N. D. Bicycle-boat	557,647	Apr. 7	227	55, 56	75	43
Boulton, Jesse. (See Dieterich and Boulton.)						
Bourdon, Charles, Paris, France. Steam raising apparatus	552,741	Jan. 7	433	109	74	83
Bourdon, Wilbrod, Valleyfield, Canada. Fire-escape	553,183	Jan. 14	1268	307	74	252
Bourgeois, Louis M., Jr., New Orleans, La. Electric igniter for gas-engines	564,182	July 21	1683	393	76	342
Bourke, Alphege. (See Seifert, Bourke, and Wilken.)						
Bourn, Frederick J., and W. R. Hale, Gualala, Cal., assignors to said Bourn. Axle-nut wrench	560,339	May 19	1831	416	75	1088
Bourne, Stephen N., Manchester, N. H., assignor of one-half to G. Draper & Sons, Hopedale, Mass. Bobbin-holder for spooling-machines	558,893	Apr. 21	2416	588	75	488
Bourne, Theodore F., Clifton, assignor of one-half to T. Dickson, Brooklyn, N. Y. Catch	553,832	Feb. 4	21	6	74	508
Bourne, Willard A., New York, N. Y. Ventilator for lanterns, &c.	569,572	Oct. 13	1484	349	77	296
Bournonville, Antoine, and J. J. Zimmo, Philadelphia, Pa., assignors to Technic Electrical Works, of New Jersey. Bond or connector for electric railways or other electric conductors	555,846	Mar. 3	595	142	74	1238
Bonstead, William, Belfast, Ireland. Detachable cover for umbrellas	564,241	July 21	1770	414	76	360
Bouton, Elizabeth G., Pittsfield, Mass. Pen-wiper	562,371	June 23	2300	559	75	1863
Bouton, Elizabeth G., Pittsfield, Mass. Orange-pulp remover	562,372	June 23	2301	559	75	1863

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Bouton, Georges T. (See Dion and Bouton.)						
Bovee, Manley W., <i>et al.</i> (See Gilmore, Benton, assignor.)						
Bovet, Armand de, Paris, France. Towing apparatus	570,839	Nov. 3	763	{ 174 175	{ 77	780
Bovey, George C., Mount Morris, Ill. Stay for wire fencing	567,960	Sept. 22	2131	{ 513 673	{ 76	1721
Bowden, Junius A., Detroit, Mich. Filter	559,096	Apr. 28	2777	{ 674 640 641	{ 75	574
Bowden, Junius A., Detroit, Mich. Filter	564,776	July 28	2692	{ 641	{ 76	543
Bowdoin, Harry L. (See Bowdoin, Rufus P. and H. L.)						
Bowdoin, Rufus P. and H. L., Wilmington, N. C. Hair-drier	573,437	Dec. 22	2432	577	77	1793
Bowell, James, assignor of one-half to S. W. Ray, Port Arthur, Canada. Broom	554,214	Feb. 4	743	169	74	642
Bowen, Calvin C. (See Parkinson, Martin, and Bowen.)						
Bowen, Edward B., <i>et al.</i> (See Gross, Elmer S., assignor.)						
Bowen, Edward E. (See Ball and Bowen.)						
Bowen, John A., assignor of one-half to J. B. Dickman, Washington, D. C. Garbage-receptacle	553,640	Jan. 28	2071	488	74	430
Bowen, John W. (See Harbaugh, Samuel V., assignor.)						
Bowen, John W., Jacksonville, Ill. Automatic elevator-stop	568,425	Sept. 29	2961	711	76	1890
Bowen, Joseph W., Philadelphia, Pa. Boot or shoe	558,345	Apr. 14	1465	360	75	294
Bowen, Menard K. (See Moore, Charles E., assignor.)						
Bowen, Menard K. (See Price, William G., assignor.)						
Bowen, William J., Norwalk, assignor to J. P. Schiltz, Fairfield, Ohio. Fence-making machine	562,452	June 23	2432	589	75	1888
Bower, George M. (See Bower, John A. and G. M.)						
Bower, George R., administrator. (See Bower, Henry.)						
Bower, Henry, Philadelphia, Pa. Making prussiates	556,130	Mar. 10	1149	-----	74	1362
Bower, Henry, deceased, Philadelphia, Pa.; G. R. Bower, administrator. Recovering cyanogen compounds from gas liquors	560,965	May 26	2980	-----	75	1318
Bower, John A. and G. M., Buffalo, N. Y. Pipe-holder	552,951	Jan. 14	866	210	74	176
Bower, Joseph H. (See Gleason and Bower.)						
Bower, Lewis A., Wilmington, Del. Railway-tie plate	552,875	Jan. 7	713	174	74	133
Bower, Rosalind H., San Francisco, Cal. Strike-plate for locks	572,859	Dec. 8	1349	325	77	1555
Bower, William, New Britain, Conn. Napkin-holder	553,833	Feb. 4	23	7	74	509
Bower, William, Olney, Ill. Show-case	559,159	Apr. 28	2929	{ 707 708	{ 75	601
Bower, William C., Birmingham, Ala. Match-receptacle	561,961	June 16	1603	389	75	1718
Bowers, Alphonzo B., San Francisco, Cal. Excavator for hydraulic dredgers	565,132	Aug. 4	320	77	76	676
Bowers, George, <i>et al.</i> (See White, Albert, assignor.)						
Bowers, Isaac, <i>et al.</i> (See Norris, Frank M., assignor.)						
Bowers, Jonathan, <i>et al.</i> (See White, Albert, assignor.)						
Bowers, Joseph M. and M. C., McKeesport, Pa. Bolt	566,130	Aug. 18	2153	525	76	1058
Bowers, Moses C. (See Bowers, Joseph M. and M. C.)						
Bowers, Thomas M., Crockett, Tex. Plow	560,466	May 19	2060	469	75	1129
Bowers, William F., San Francisco, Cal. Concentrator-belt	552,952	Jan. 14	867	210	74	176
Bowers, William F., San Francisco, Cal. Hose	554,649	Feb. 18	1510	354	74	818
Bowghner, Oliver M., and G. Smith, Augustaville, Pa. Vehicle-wheel	563,646	July 7	685	161	76	129
Bowie, William A., London, and E. J. Dodd, New Barnet, England. Machine for filling bottles	552,983	Jan. 14	918	223	74	186
Bowie, William A., and E. J. Dodd, London, England. Apparatus for filling bottles	564,735	July 28	2616	{ 623 624	{ 76	530
Bowie, William S., assignor of one-half to D. Hunt, Boston, Mass. Ball-caster	556,329	Mar. 17	1545	360	74	1450
Bowker, James J., West Mansfield, Ohio. Body-rest and bed-pan	566,724	Aug. 25	3169	775	76	1265
Bowker, Richard R., Brooklyn, N. Y. Electrical distributing system	560,772	May 26	2637	{ 605 606	{ 75	1252
Bowker, Richard R., Brooklyn, N. Y. Electric distributing system	562,209	June 16	2023	{ 488 489	{ 75	1796
Bowler, John A., New York, N. Y., assignor to American Box Strap Company. Metal box-strap	568,510	Sept. 29	3109	749	76	1917
Bowles, John, Washington, D. C., assignor of one-half to C. S. Mitchell, New York, N. Y. Saw	558,466	Apr. 14	1687	405	75	336
Bowles, Walter J., E. Campbell, and O. Rader, Custer, S. D. Fire-kindler	565,599	Aug. 11	1200	288	76	857
Bowley, Henry F. (See Richardson, Charles N., assignor.)						
Bowman, A. L. (See Enfield, William H., assignor.)						
Bowman, A. R. (See Shelly, William P., assignor.)						
Bowman, Ezra F. See Reisner, Lewis C., assignor.)						
Bowman, Frances, and S. E. Kerr, Mount Vernon, Wash. Means for heating curling-irons	565,426	Aug. 11	860	203	76	796
Bowman, George F., and A. G. Langell, Cleveland, Ohio. Polishing appliance for shoes	568,833	Oct. 6	200	48	77	40
Bowman, George L., Stoyestown, Pa. Thill-support	555,072	Feb. 25	2261	539	74	973
Bowman, Henry G., Frankfort, Ind. Gate	571,081	Nov. 10	1190	279	77	888
Bowman, Louis F., Cincinnati, Ohio. Stock-protecting store and display box	561,085	June 2	12	3	75	1369
Bowman, Robert S., Berwick, Pa. Trousers-guard for bicycle-riders	562,274	June 16	2127	516	75	1814
Bowman, Ross, assignor of one-half to J. H. Gardner, Stoyestown, Pa. Artificial limb	563,706	July 7	792	{ 189 190	{ 76	148
Bowne, Robert T., <i>et al.</i> (See Lehmann, Anthony A., assignor.)						
Bowne, Robert T., Wimbledon, assignor of one-half to J. W. Brown, Baltimore, Md. Railway time-signal	569,953	Oct. 20	2174	516	77	437
Bowser, Augustus, Fort Wayne, Ind. Self-measuring oil-wagon	561,650	June 9	1046	253	75	1593
Box, Alfred, Philadelphia, Pa. Machine-brake	568,253	Sept. 22	2639	633	76	1814
Boye, Darwin C., assignor of one-half to J. M. Clark, Quinnimont, W. Va. Cradle-dump	560,567	May 19	2219	507	75	1158
Boyce, Herbert J., Fayette, Ohio. Blacksmith's vise	558,927	Apr. 28	2486	604	75	517
Boyce, Peter E., Snohomish, Wash. Ballast-unloader for cars	563,128	June 30	3656	875	75	2142
Boyce, Thomas H., New York, N. Y. Corn-holder	556,330	Mar. 17	1546	361	74	1450
Boyd, Charles L. (See Harmon and Boyd.)						
Boyd, Edward J., New York, N. Y. Trousers-creaser	562,276	June 16	2129	517	75	1814
Boyd, Elmer E. (See Wiley and Boyd.)						
Boyd, Frederick C., and C. E. Gierding, assignors to New Haven Car Register Company, New Haven, Conn. Fare-register	559,321	Apr. 28	3215	{ 776 777 778 779	{ 75	654
Boyd, George W., Nashville, Tenn. Plant-protector	558,346	Apr. 14	1465	360	75	294
Boyd, Henry E., McKeesport, Pa. Apparatus for forming couplings for pipe-sections	565,257	Aug. 4	592	{ 139 140	{ 76	724

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Boyd, Henry P., Bellevue, assignor of one-fourth to G. A. Dickson, Pittsburg, Pa. Rod connection.....	569,995	Oct. 27	2243	533	77	462
Boyd, James S., Greenville, Tex. Car-coupling.....	553,505	Jan. 28	1825	433	74	386
Boyd, James S., Greenville, Tex. Car-coupling.....	553,506	Jan. 28	1826	433	74	386
Boyd, Joseph, Kingstown, Ireland. Alarm-bell.....	563,837	July 14	1041	245	76	210
Boyd, Peter, assignor to Riverside Iron Works, Wheeling, W. Va. Draw-bench for manufacturing pipe.....	557,478	Mar. 31	3556	850	74	1867
Boyd, Peter, assignor to Riverside Iron Works, Wheeling, W. Va. Draw-bench for manufacturing pipe.....	557,479	Mar. 31	3558	851	74	1867
Boyd, Peter, assignor to Riverside Iron Works, Wheeling, W. Va. Skelp-tongs.....	557,480	Mar. 31	3559	851	74	1868
Boyd, Randolph, Galva, Ill. Corn-planter.....	558,768	Apr. 21	2202	530	75	447
Boyd, Robert A., Belleville, Canada. Combined sad-iron and friller.....	557,477	Mar. 31	3555	849	74	1867
Boyd, Robert R., Memphis, Tenn. Cotton-seed delinter.....	563,647	July 7	686	161	76	129
Boyd, Willard A., Chicago, Ill. Machine for splitting carcasses of animals in halves.....	556,956	Mar. 24	2622	616	74	1669
Boyd, William H., Gainesville, Fla. Bag-holder.....	564,143	July 14	1595	374	76	315
Boyer, Charles T., assignor to American Buncher Manufacturing Company, Indianapolis, Ind. Bunching attachment for mowing-machines.....	558,032	Apr. 14	943	233	75	195
Boyer, Charles T., assignor to American Buncher Manufacturing Company, Indianapolis, Ind. Bunching attachment for mowing-machines.....	558,149	Apr. 14	1138	278	75	233
Boyer, Charles T., assignor to American Buncher Manufacturing Company, Indianapolis, Ind. Bunching attachment for mowing-machines.....	558,150	Apr. 14	1140	278	75	233
Boyer, Edith E. L. and I. D., Dayton, Ohio. Wrapping-machine.....	568,656	Sept. 29	3403	814	76	1972
Boyer, Harry L., Monroe, Mich. Car-coupling.....	559,097	Apr. 28	2780	674	75	574
Boyer, Israel D. (See Boyer, Edith E. L. and I. D.).....						
Boyer, Jean M., Paris, France. Supporting lever-bracket.....	557,955	Apr. 7	766	182	75	144
Boyer, Tilghman H., Allentown, Pa. Water-filter.....	554,858	Feb. 18	1871	441	74	888
Boyer, William J., Wilmington, Del. Dressmaker's form.....	553,834	Feb. 4	25	7	74	509
Boyle, Homer L., et al. (See Middaugh, Elmer H., assignor.).....						
Boyle, Homer L., Grand Rapids, Mich. Elevated railway.....	555,921	Mar. 10	748	180	74	1289
Boyle, Homer L., Grand Rapids, Mich. Bicycle.....	556,802	Mar. 24	2368	557	74	1622
Boyle, Homer L., Grand Rapids, Mich. Bicycle.....	556,838	Sept. 1	167	39	76	1314
Boyle, James C., assignor of one-half to J. Neill, Spokane, Wash. Saluting device.....	556,248	Mar. 10	1360	320	74	1400
Boyle, James E., Lancaster, assignor to himself, H. A. Stiles, and T. E. Leech, Philadelphia, Pa. Eyeglasses.....	557,323	Mar. 31	3290	789	74	1815
Boyle, James E., deceased, Brooklyn, (J. E. Boyle, Jr., administrator,) assignor to Henry Huber Company, New York, N. Y. Lavatory waste, overflow, and supply fixture.....	562,210	June 16	2025	489	75	1796
Boyle, John. (See Brass, Robert, assignor.).....						
Boylett, James H. (See Hull and Boylett.).....						
Boylston, George A., Pratt City, Ala. Grate-back.....	553,388	Jan. 21	1627	388	74	332
Boynton, Eben M., West Newbury, Mass. Railway-motor.....	555,280	Feb. 25	2632	617	74	1044
Boynton, Eben M., West Newbury, Mass. Electric railway.....	556,320	Mar. 10	1521	354	74	1431
Boynton, Eben M., West Newbury, Mass. Railway.....	564,865	July 28	2839	678	76	570
Boynton, Edward S., Brooklyn, N. Y. Galvanic battery.....	557,355	Mar. 31	3346	804	74	1827
Boynton, Edward S., Brooklyn, N. Y. Galvanic battery.....	557,356	Mar. 31	3347	804	74	1827
Boynton, Edward S., Brooklyn, N. Y. Galvanic battery.....	563,127	June 30	3655	875	75	2142
Boynton, Frank C., Springfield, Mass. Hand printing device.....	561,859	June 9	1433	345	75	1665
Boynton, Fred L., Kingfisher, Okla. Ter. Mail-bag.....	570,899	Nov. 10	877	204	77	830
Boynton Furnace Company. (See Boynton, Nathaniel A., assignor.).....						
Boynton, Leander W., Bridgeport, Conn., assignor to W. F. Boynton, New York, N. Y. Washboiler.....	564,777	July 28	2697	641	76	544
Boynton Manufacturers' Supply Company. (See Tregurtha, Alfred T., assignor.).....						
Boynton, Nathaniel A., assignor to Boynton Furnace Company, New York, N. Y. Furnace or heater.....	558,894	Apr. 21	2417	589	75	488
Boynton, Victor A. (See Fields and Boynton.).....						
Boynton, W. F. (See Boynton, Leander W., assignor.).....						
Boynton, William H., Morris Park, assignor to E. M. Dunton, Hollis, N. Y. Railway system.....	562,211	June 16	2028	490	75	1796
Boynton, William H., Morris Park, assignor to E. M. Dunton, Hollis, N. Y. Car-truck.....	562,212	June 16	2029	490	75	1797
Bozano, Stefano, assignor of one-half to P. Caledonia, Boston, Mass. Permutation-padlock.....	556,573	Mar. 17	1984	463	74	1533
Bozarth, Charles W., et al. (See Weeks, Parrish C., assignor.).....						
Brace, Augustus J., Caton, and E. Brown, Auburn, N. Y. Bicycle attachment for use on ice.....	557,956	Apr. 7	767	183	75	144
Bracewell, James M., et al. (See Lemon and Bartlett, assignors.).....						
Bracher, George S. (See Gammons, Welcome P., Jr., assignor.).....						
Bracher, Thomas W., New York, N. Y. Machine for making selvages on fabrics.....	567,779	Sept. 15	1816	436	76	1647
Bracher, Thomas W., New York, N. Y. Fabric and producing finished edges thereon.....	567,948	Sept. 15	2102	506	76	1702
Brackbill, Josiah A., Kinzer's, Pa. Wire fence.....	561,757	June 9	1252	298	75	1632
Bracken, Howard W., assignor to G. Draper & Sons, Hopedale, Mass. Spooler-guide.....	567,450	Sept. 8	1269	307	76	1528
Bracken, Howard W., assignor to G. Draper & Sons, Hopedale, Mass. Separator for ring-spinning frames.....	570,423	Oct. 27	3056	724	77	616
Brackenridge, John C. (See Carver, David F., assignor.).....						
Brackett, George F., Jersey City, N. J. Timing apparatus.....	555,847	Mar. 3	596	142	74	1238
Bradbury, David F., and G. McDermott, Philadelphia, Pa. Stop mechanism for carding-machines.....	559,160	Apr. 28	2930	708	75	602
Bradbury, Frederick G., St. Paul, and N. Nilson, Minneapolis, assignors to G. W. Hughes, St. Paul, Minn. Book-file.....	572,741	Dec. 8	1162	279	77	1518
Bradenburg, William H., and F. H. Chilton, New York, N. Y. Car-coupling.....	553,835	Feb. 4	26	7	74	509
Bradford, Samuel G., Benton Harbor, Mich. Photographic retoucher.....	571,642	Nov. 17	2142	514	77	1078
Bradiash, Theodore H., Utica, N. Y. Combination-lock for scissors or shears.....	568,188	Sept. 22	2560	616	76	1799
Bradley, Alfred, assignor to L. U. Gill, London, England. Guillotine paper cutting and trimming machine.....	567,576	Sept. 15	1479	353	76	1582
Bradley, Anna. (See Bradley, James, assignor.).....						
Bradley, Charles S., Avon, N. Y. Rotary field-motor.....	557,957	Apr. 7	768	183	75	144
Bradley, Charles S., Avon, N. Y. Electric heating.....	558,714	Apr. 21	2108	510	75	430
Bradley, Charles S., Avon, N. Y., assignor to General Electric Company, of New York. System of distribution for alternating currents.....	570,118	Oct. 27	2462	584	77	505

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Bradley, Charles S., Avon, N. Y., assignor to General Electric Company, of New York. Electric-car motor	570,119	Oct. 27	2464	584	77	505
Bradley, Clarence E., Mankato, Minn. Measure	554,474	Feb. 11	1206	281	74	744
Bradley, Clarence E., Mankato, Minn. Measure	558,715	Apr. 21	2110	510	75	430
Bradley, Edward E., assignor to Atwood Machine Company, Stonington, Conn. Combined spinning and doubling machine	567,074	Sept. 1	603	{ 140 141 }	76	1397
Bradley, Frank S., New Haven, assignor to West Haven Manufacturing Co., West Haven, Conn. Saw	573,812	Dec. 22	3089	734	77	1918
Bradley, Frederick A., New Haven, Conn. Temporary binder	564,819	July 28	2762	657	76	555
Bradley, Harold E., Pawtucket, R. I. Electric-arc lamp	557,648	Apr. 7	230	56	75	43
Bradley, Hazen W., Ilion, assignor to Remington Arms Company, New York, N. Y. Extractor for breech-loading firearms	572,102	Dec. 1	13	3	77	1280
Bradley, Henry A., New York, N. Y. Hydrocarbon-burner	570,450	Nov. 3	10	3	77	640
Bradley & Hubbard Mfg. Co. (See Bradley, Nathaniel L., assignor.)						
Bradley & Hubbard Mfg. Co. (See Jauch, Joseph, assignor.)						
Bradley & Hubbard Mfg. Co. (See Penfield, William A., assignor.)						
Bradley, James, assignor to A. Bradley, Niverville, N. Y. Roller-bearing for axles of vehicles	567,451	Sept. 8	1270	308	76	1528
Bradley, Nathaniel L., assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Filling device for lamps	553,716	Apr. 21	2111	510	75	430
Bradley, William, Stockport, England, assignor to H. H. A., and A. Turner, Danbury, Conn. Gage for paring hat-brims	554,979	Feb. 18	2075	494	74	925
Bradley, William H. (See Quinn and Bradley.)						
Bradley, Willis A., Gem, Idaho. Sled-propeller	556,613	Mar. 17	2051	480	74	1544
Bradman, Thomas W., and H. Hines, Beardstown, Ill. Car-door	553,447	Jan. 21	1719	410	74	350
Bradner, William E., Newark, N. J. Air-valve for pneumatic tires	560,188	May 19	1551	351	75	1041
Bradshaw, Silas S., Brooklyn, assignor of one-half to C. Lyons, Jr., New York, N. Y. Reversible window	572,521	Dec. 8	759	181	77	1438
Bradshaw, Walter L., Cincinnati, Ohio. Short-distance telephone communication	555,073	Feb. 25	2262	540	74	973
Bradshaw, William H., Orange, N. J. Plow	552,886	Jan. 14	735	179	74	151
Bradt, Charles E., et al. (See Pringle, Eugene, assignor.)						
Bradt, Charles E., et al. (See Reynolds, Walter S., assignor.)						
Bradt, Charles E., et al. (See Reynolds and Shipman, assignors.)						
Bradt, Chauncey D., assignor to G. Bradt, Green Island, N. Y. Apparatus for attaching color specimens to sample-sheets	556,175	Mar. 10	1231	{ 287 288 }	74	1377
Bradt, Georgianna. (See Bradt, Chauncey D., assignor.)						
Bradt, Samuel E., et al. (See Pringle, Eugene, assignor.)						
Bradt, Samuel E., et al. (See Reynolds, Walter S., assignor.)						
Bradt, Samuel E., et al. (See Reynolds and Shipman, assignors.)						
Bradt, William J., North Hannibal, N. Y. Broom or brush	557,104	Mar. 31	2879	688	74	1743
Brady, John L., assignor of one-half to H. C. Wathen, Bardstown Junction, Ky. Nut-lock for railways	563,253	July 7	25	4	76	7
Brady, Joseph C., Hornellsville, N. Y. Lamp-burner	565,831	Aug. 11	1605	{ 392 393 }	76	934
Brady, Mary E., et al. (See Bélanger, Victor, assignor.)						
Brady, Mary E., trustee, et al. (See Bélanger, Victor, assignor.)						
Brady, Thomas A., assignor, by mesne assignments, to himself and W. Brady, Philadelphia, Pa. Take-up and drop-box governing mechanism for looms	559,768	May 5	721	171	75	818
Brady, Thomas H., New Britain, Conn. Insulating-support for boxes containing electrical apparatus	555,922	Mar. 10	750	181	74	1289
Brady, Thomas H., New Britain, Conn. Hanger for electric-arc lamps	560,255	May 19	1625	384	75	1064
Brady, William. (See Brady, Thomas A., assignor.)						
Brady, William W., assignor, by mesne assignments of one-half to M. D. Breen, Avon, N. Y. Planter	563,129	June 30	3657	876	75	2142
Braen, Henry, Paterson, N. J. Folding sample-case	574,130	Dec. 29	3689	879	77	2041
Bragg, Arthur E. (See Grace, Claude M., assignor.)						
Bragg, Kelly R., Shelby, Mo. Combined articulator and flask and dental process	565,326	Aug. 4	690	166	75	743
Bragg, Robert, assignor of three-fourths to W. F., S. S., and W. D. Chamberlin, Dayton, Ohio. Crank-pin	572,497	Dec. 1	716	171	77	1414
Bragger, John W., assignor to Hitchcock Lamp Company, Watertown, N. Y. Device for flushing closets	560,132	May 12	1446	326	75	970
Brainard, Frederick. (See Piper, Edwin S., assignor.)						
Braine, Lawrence F., Ridgewood, N. J. Railway frog and crossing	570,082	Oct. 27	2398	{ 568 569 }	77	493
Brake, Archibald, Toronto, Canada. Casting brake-shoes	553,098	Jan. 14	1119	{ 271 272 }	74	224
Brake, Archibald, Toronto, Canada. Brake-shoe	573,429	Dec. 15	2404	573	77	1770
Brakeley, Harry H., Bordentown, N. J. Machine for hulling peas or beans	553,774	Jan. 28	2291	543	74	472
Bram, Jacob, Decatur, Ill. Electric motor	566,889	Sept. 1	260	61	76	1332
Bramberg, Charles. (See Denis and Bramberg.)						
Bramberg, Charles. (See Lee and Bramberg.)						
Bramble, Frank H., Grand Rapids, assignor of five-eighths to T. E. Webster, Bay City, Mich. Horseshoe	562,567	June 23	2636	638	75	1926
Bramer, Albert and D., Boston, Mass. Disk harrow or cultivator	556,000	Mar. 10	896	214	74	1318
Bramer, David. (See Bramer, Albert and D.)						
Brammer, Henry F., and M. J. Kremer, Davenport, Iowa. Washing-machine	570,152	Oct. 27	2521	{ 597 598 }	77	516
Bramwell, James C., et al. (See Pleins, Rudolph C., assignor.)						
Bramwell, William C., Hyde Park, Mass. Windmill	556,803	Mar. 24	2371	558	74	1632
Bramwell, William C., Hyde Park, Mass. Wind-motor	556,914	Mar. 24	2556	{ 602 603 }	74	1657
Branca, John, West Superior, Wis. Combination screen and storm door	563,649	July 7	689	162	76	130
Branch, Daniel W., Montgomery, Ala. Valve for steam-engines	563,648	July 7	688	162	76	129
Brand, Albert L., Trenton, N. J. Cuff-holder	558,255	Apr. 14	1319	322	75	266
Brand, Charles P., Allegheny, Pa. Hat and coat hook	573,258	Dec. 15	2058	493	77	1707
Brand, George. (See Hacking and Brand.)						
Brand, George, Brooklyn, N. Y. Rail grip-joint for iron bedsteads	570,369	Oct. 27	2952	700	77	596
Brand, William, Pittsburg, Pa. Boiler and boiler-furnace	569,996	Oct. 27	2244	533	77	463
Brandell, Peter, Council Bluffs, Iowa. Device for discharging liquids	553,276	Jan. 21	1431	346	74	297
Brandenburg, George G., Chicago, Ill. Ball-bearing mechanism	556,249	Mar. 10	1364	321	74	1401
Brandenburg, Henry, Chicago, Ill. Electric-railway system	552,604	Jan. 7	171	47, 48	74	34
Brandenburg, Henry, Chicago, Ill. Electric railway	559,356	May 5	10	3	75	682
Brandenburg, Henry, Chicago, Ill. Electric railway	559,357	May 5	11	45	75	683

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Brandenburg, Henry, Chicago, Ill. Electric railway.....	560,678	May 26	2473	{ 566 567 106	{ 75	1221
Brandenburg, Henry, Chicago, Ill. Electric railway.....	561,307	June 2	430	{ 590 591 592	{ 75	1453
Brandenburg, Henry, Chicago, Ill. Electric railway.....	562,453	June 23	2434	{ 731 732 733	{ 75	1888
Brandenburg, Henry, Chicago, Ill., assignor to C. A. Bates. Electric railway.....	562,796	June 30	3026	{ 731 732 733	{ 75	2018
Brandenburg, Henry, Chicago, Ill., assignor to C. A. Bates. Electric railway.....	563,254	July 7	26	{ 4 5 6	{ 76	7
Brandenburg, Henry, Chicago, Ill., assignor to C. A. Bates. Electric railway.....	565,102	Aug. 4	262	{ 62 63 64	{ 76	665
Brandenburg, Henry, Chicago, Ill., assignor to C. A. Bates. Electric railway.....	565,103	Aug. 4	264	{ 63 64 65	{ 76	665
Brandenberger, Mathias J., Philadelphia, Pa. Ash-sifter.....	572,242	Dec. 1	259	{ 62	{ 77	1328
Brandle, Henry. (See Smith, John, assignor.)						
Brandon, Francis L. (See Roop, Brandon, and Hart.)						
Brandon, William. (See Johnson, Thomas, assignor.)						
Brandt, Alfred, Uhlenhorst-Hamburg, Germany. Method of and apparatus for keeping tunnels, &c., free from rubbish produced by blasting.....	537,958	Apr. 7	771	184	75	145
Brandt, Edward J., Watertown, Wis. Coin-delivery apparatus.....	556,131	Mar. 10	1149	270	74	1362
Brandt, William, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Shuttle for sewing-machines.....	557,547	Apr. 7	26	7	75	7
Brandtjen, John. (See Nichols, John L., assignor.)						
Brangs, Paul H., Newark, N. J. Shade-roller.....	556,839	Mar. 24	2426	570	74	1633
Brannam, Alvin J., Springfield, Mo. Bicycle-support.....	570,659	Nov. 3	453	107	77	723
Brannen, David H., Fort Scott, Kans. Meat-block and chopping-bowl.....	564,913	July 28	2907	696	76	583
Branson, Edwin R., Philadelphia, Pa. Circular-knitting machine.....	553,277	Jan. 21	1432	{ 347 348	{ 74	297
Branson, James L., assignor to Branson Machine Company, Philadelphia, Pa. Sinker mechanism for knitting-machines.....	570,695	Nov. 3	518	121	77	735
Branson Machine Company. (See Branson, James L., assignor.)						
Branth, Johan F. S., Washington, D. C., assignor, by mesne assignments, to International Sweeping Machine Company. Street-sweeper.....	552,887	Jan. 14	736	179	74	152
Branth, Johan F. S., Washington, D. C., assignor, by mesne assignments, to International Sweeping Machine Company. Street-sweeper.....	552,888	Jan. 14	739	180	74	152
Brantingham, Allen C., Toledo, Ohio, assignor to Nordyke & Marmou Company, Indianapolis, Ind. Dust-collector.....	566,737	Sept. 1	9	2, 3	76	1282
Brasch, Richard, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Alizarin dye and making same.....	569,404	Oct. 13	1188	----	77	242
Brasch, Richard, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Green alizarin dye and making same.....	569,405	Oct. 13	1190	----	77	242
Brashears, Ira, Washington, D. C. Fire-extinguisher.....	562,568	June 23	2636	{ 638 639	{ 75	1926
Brass, Robert, assignor to J. Boyle, Brooklyn, N. Y. Bottle-sealing device.....	552,742	Jan. 7	437	110	74	83
Brass, Robert, assignor to J. Boyle, Brooklyn, N. Y. Machine for sealing bottles.....	563,552	July 7	538	124	76	102
Brasseur, Charles L. A. (See Sampolo and Brasseur.)						
Brastrington, John D., Port Richmond, N. Y. Fluid-pressure regulator.....	561,370	June 2	544	137	75	1475
Bratten, Herschel A. (See Killman and Bratten.)						
Brauer, Adolph K., Los Angeles, Cal. Pocket-knife.....	557,760	Apr. 7	430	101	75	81
Brauer, August, Independence, Mo. Power mechanism for bicycles.....	571,469	Nov. 17	1841	439	77	1024
Brauer, Henry J., New Orleans, La. Machine for making book-covers.....	565,832	Aug. 11	1608	{ 393 394	{ 76	935
Braun, Carl. (See Mahla and Braun.)						
Braun, John, et al. (See Deck, Henry, assignor.)						
Braun, John, et al. (See Harvey, William F. H., assignor.)						
Braun, John F., et al. (See Deck, Henry, assignor.)						
Braun, John F., Philadelphia, Pa. Bicycle-pump.....	564,736	July 28	2617	624	76	531
Braun, Joseph, Youngstown, Ohio. Beer-pipe cleaner.....	565,600	Aug. 11	1200	280	76	857
Braun, Leopold. (See Gajewski and Braun.)						
Braun, Lina, New York, assignor to herself and J. Hain, Brooklyn, N. Y. Hat-pin fastener.....	571,892	Nov. 24	2467	586	77	1159
Braun, William P. M., et al. (See Deck, Henry, assignor.)						
Braunstein, Adolph R., et al. (See Johnston, Abner, assignor.)						
Brawley, William H., assignor of two-thirds to C. N. Coles, New York, N. Y., and J. B. Coles, Bayonne, N. J. Slatting compound.....	569,004	Oct. 6	502	----	77	96
Bray, Mellen N., Boston, Mass. Screw-propeller.....	554,331	Feb. 11	956	221	74	697
Bray, Mellen N., Boston, Mass. Lacing-hook.....	559,769	May 5	722	171	75	818
Bray, Nicholas S. (See Lean and Bray.)						
Bray, Thomas A., Kansas City, Mo. Meat-puncturing instrument.....	570,593	Nov. 3	298	73	77	694
Bray, William E. (See Hulse, Bray, and Steen.)						
Brazelton, Edwin S., South Pittsburg, and T. J. Zoeller, Nashville, Tenn.; said Zoeller assignor to said Brazelton. Thermostat.....	562,353	June 16	2271	551	75	1841
Brazie, Jacob. (See Brazie, William R. and J.)						
Brazie, William R. and J., Amsterdam, N. Y. Smoke-consuming attachment for furnaces.....	567,073	Sept. 1	606	141	76	1397
Brazill, John J., Hatton, Ohio. Pump-rod-turning mechanism.....	563,736	July 14	849	202	76	175
Breakspear, William H., O. Spannaus, and C. Weisbecker, New York, N. Y. Manual sales-recorder.....	554,049	Feb. 4	449	99	74	587
Breakspear, William H., O. Spannaus, and C. Weisbecker, New York, N. Y. Sales-pad.....	571,552	Nov. 17	1997	474	77	1051
Brearely, Henry K., West Duluth, Minn. Well-point.....	572,860	Dec. 8	1350	325	77	1555
Breck, William M., Cleveland, Ohio. Bottle.....	555,758	Mar. 3	458	109	74	1212
Breckon, Emory H. (See Miller, Joseph F., assignor.)						
Breckwedel, Harry B., New York, N. Y. Bicycle-bell.....	558,347	Apr. 14	1467	360	75	295
Bredin, John F., Muskegon, Mich. Saw-setting machine.....	557,959	Apr. 7	772	184	75	145
Breed, Albert H. (See Taylor, Eugene H., assignor.)						
Breed, Charles H. (See Breed, Franklin E., assignor.)						
Breed, Charles O., Lynn, Mass. Life-saving device for elevator-cars.....	568,733	Oct. 6	29	7	77	8
Breed, Edwin S., New Britain, Conn., assignor to J. A. Brill, Philadelphia, Pa. Means for supporting motors and motor-frames.....	557,049	Mar. 24	2792	{ 663 664 231	{ 74	1702
Breed, Franklin E., Jamestown, N. Y., assignor of one-half to C. H. Breed. Stair and floor truck.....	554,359	Feb. 11	1002	{ 232 233	{ 74	706
Breed, George, Philadelphia, Pa. Apparatus for producing musical sounds by electricity.....	560,679	May 26	2475	568	75	1221
Breeding, Enoch, Fort Worth, Tex. Folding minnow-net.....	572,785	Dec. 8	1237	299	77	1532
Breen, Michael D. (See Brady, William W., assignor.)						
Brehmer, Hugo, deceased; C. F. Lindenberg, Lübeck, Germany, executor. Book-sewing machine.....	500,223	May 19	1620	{ 365 366 367 368	{ 75	1052
Brehmer, William R., Wausau, Wis. Drawbridge-gate.....	552,511	Jan. 7	16	5	74	6

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Brelsford, Zelora B. (See Pittenger and Brelsford.)						
Breitenbaugh, William F. (See Bassett, Nathan, assignor.)						
Breithut, E. C. (See Breithut, Oscar P., assignor.)						
Breithut, Oscar P., assignor to E. C. Breithut, Williamsport, Pa. Reclining-chair and couch.	559,668	May 5	539	125	75	785
Bremer, Godfrey J. (See Williams and Bremer.)						
Bremner, Robert J. (See Scholz, O'Connor, and Bremner.)						
Brenizer, Warren F., assignor to Washington Venetian Blind Company, Washington, D. C. Machine for painting or varnishing surfaces.	572,861	Dec. 8	1351	{ 325 325 }	77	1555
Brennan, Charles E., Minneapolis, Minn. Combined single and tandem bicycle.	569,705	Oct. 20	1752	416	77	359
Brennan & Company South Western Agricultural Works. (See Dealtry, William J., assignor.)						
Brennan, James P., Elba, Wis. Potato-harvester.	567,846	Sept. 15	1940	464	76	1671
Brenneisen, John E., assignor of one-half to G. D. Norris, B. T. Nicodemus, J. O. Willard, W. H. H. Pearre, and W. A. Nicodemus, Unionville, Md. Singletree-hook.	564,954	July 28	3001	714	76	600
Brenner, Victor D. (See Fischer, Sigismund, assignor.)						
Brentini, Peter, London, England. Apparatus for manufacturing gas.	571,062	Nov. 10	1147	268	77	881
Brentnall, Samuel, Manchester, England. Means for filing and keeping documents.	561,254	June 2	299	75, 76	75	1426
Brenzinger, Adam, New York, N. Y. Non-fillable bottle.	555,923	Mar. 10	751	182	74	1289
Brenzinger, Julius, and E. F. Klée, New York, N. Y. Coin-receptacle.	572,691	Dec. 8	1060	258	77	1500
Bresman, John, San Francisco, Cal. Spring-heel for boots or shoes.	572,103	Dec. 1	14	4	77	1281
Bresnehan, Maurice V. (See Heys, John J., assignor.)						
Bretney, Eugene, Indianapolis, Ind. Device for generating ammonia-gas.	560,081	May 12	1350	303	76	951
Brett, John A., Washington, D. C. Hot-water-circulation system.	553,448	Jan. 21	1720	410	74	350
Brett, Robert D. (See Hill, Frederick B., assignor.)						
Breuchaud, Jules, New York, N. Y. Construction of supports for walls, &c.	563,130	June 30	3660	{ 876 877 }	75	2142
Breuchaud, Jules, New York, N. Y. Construction of supports for walls, &c.	570,370	Oct. 27	2953	701	77	596
Bréul, Richard A., assignor to Bridgeport Chain Company, Bridgeport, Conn. Chain-making machine.	559,770	May 5	723	{ 171 172 173 174 }	75	818
Bréul, Richard A., assignor to Bridgeport Chain Company, Bridgeport, Conn. Chain.	564,406	July 21	2052	481	76	410
Brevard, Horace. (See Key, Brevard, and Purifoy.)						
Brevard, William M., W. B. Orr, and J. W. Sofge, Macon, Ga. Bicycle-alarm.	563,838	July 14	1043	245	76	210
Brevoort, Gertrude L., executrix. (See Brevoort, Henry L.)						
Brevoort, Henry L., deceased, Brooklyn; G. L. Brevoort, executrix, assignor to Electro Waterproofing and Dye Fixing Company, New York, N. Y. Electrically treating fabrics for waterproofing or other purposes.	558,717	Apr. 21	2113	.....	75	431
Brevoort, Henry L., deceased, Brooklyn; G. L. Brevoort, executrix, assignor to Electro Waterproofing and Dye Fixing Company, New York, N. Y. Fixing dyes in fabrics.	558,718	Apr. 21	2117	.....	75	431
Brew, William. (See Standfield and Brew.)						
Brewer, Edwin B., Northampton, Mass. Sectional nut.	561,758	June 9	1254	299	75	1633
Brewer, Emmet P., et al. (See McLain, Peter J., assignor.)						
Brewer, Emmet P., Denver, Colo. Attachment for lead-pencils.	568,473	Sept. 29	3043	730	76	1905
Brewer, Ernest D., London, England. Carriage.	565,833	Aug. 11	1613	394	76	936
Brewer, Franklin N., Philadelphia, Pa. Sales-recording apparatus.	565,133	Aug. 4	323	{ 77 78 79 80 }	76	677
Brewer, Horatio J., New York, N. Y. Zinc-support for batteries.	557,048	Mar. 24	2791	663	74	1702
Brewer, Walter D., St. Louis, Mo., assignor of one-half to F. C. Bader, Quincy, Ill. Device for stiffening toes of footwear.	564,966	Aug. 4	9	3	76	618
Brewin, John C. (See Manderfield and Brewin.)						
Brewing Improvement Company. (See Jaeger, Gustav L., assignor.)						
Brewster, Elias M., Norwich, Conn. Utensil-receptacle for stoves.	570,275	Oct. 27	2749	654	77	559
Breyer, Friedrich, Vienna, Austria-Hungary. Asbestos filter.	571,744	Nov. 24	2333	558	77	1133
Breyman, George H., Toledo, Ohio. Dredging and excavating apparatus.	558,769	Apr. 21	2203	{ 530 531 }	75	447
Brice, Henri, Havre, France. Automatic means for closing leaks in marine vessels, &c.	564,144	July 14	1598	374	76	315
Brice, Edward C., Washington, D. C. Composition of matter.	555,205	Feb. 25	2500	.....	74	1020
Brice, Edward C., Washington, D. C. Manufacture of artificial stone, brick, &c.	555,206	Feb. 25	2501	.....	74	1020
Brice, Edward C., Washington, D. C. Artificial stone.	555,207	Feb. 25	2501	.....	74	1020
Brice, Edward C., Washington, D. C. Composition of matter.	555,425	Feb. 25	2889	.....	74	1093
Brick, Julia E., et al. (See Stanley, Ira N., assignor.)						
Brick, Lewis. (See Leonard and Brick.)						
Brickell, Harry S., et al. (See McGuire, Robert C., assignor.)						
Brickner, Julius, and A. S. Herr, Tiffin, Ohio. Truss.	566,738	Sept. 1	12	3	76	1283
Bridgeman, H., et al. (See Smith, Orison M., assignor.)						
Bridgeport Brass Company. (See Rhind, Frank, assignor.)						
Bridgeport Brass Company. (See Rhind, Stoddard, and Baldwin, assignors.)						
Bridgeport Brass Company. (See Stoddard, Samuel G., assignor.)						
Bridgeport Chain Company. (See Breul, Richard A., assignor.)						
Bridgeport Fire Extinguisher Company. (See Mansfield, Henry A., assignor.)						
Bridgeport Gas Machine Company. (See Tallmadge, James W., assignor.)						
Bridger, Herbert K. (See Scetrini and Bridger.)						
Bridges, Charles W., et al. (See Ogborn, Harrison, assignor.)						
Bridges, Christopher M., Seattle, Wash., assignor of one-fifth to J. S. Fanning, San Francisco, Cal. Conduit electric railway.	555,208	Feb. 25	2503	{ 590 591 592 593 }	74	1020
Bridges, John R., Findlay, Ohio. Machine for manufacturing glassware.	557,105	Mar. 31	2881	{ 628 629 }	74	1743
Bridwell, Charles C., Portsmouth, Ohio. Window or buggy washer.	559,510	May 5	275	65	75	735
Brien, James O., Evansville, Ind. Mine trap-door.	557,481	Mar. 31	3560	{ 851 852 }	74	1868
Briesemeister, Franz, New York, N. Y. Size for calcimine.	563,999	July 14	1336	.....	76	264
Brigden, Charles H., Waltham, Mass., assignor of two-thirds to S. M. Hawes, Jr., Yonkers, N. Y. Door latch and lock.	560,389	May 19	1924	439	75	1105
Brigden, Charles H., Waltham, Mass., assignor of two-thirds to S. M. Hawes, Jr., Yonkers, N. Y. Latch.	560,568	May 19	2221	508	75	1158
Brigden, Charles H., Waltham, Mass., assignor of two-thirds to S. M. Hawes, Jr., Yonkers, N. Y. Night-latch mechanism.	562,373	June 23	2302	{ 559 560 }	75	1863
Brigel, Leo A., assignor to Bucket Pump Company, Cincinnati, Ohio. Bottom wheel for water-elevators.	555,924	Mar. 10	753	182	74	1290
Briggs, Adelbert F., New Lisbon, Wis. Adjustable folding chair.	571,823	Nov. 24	2468	586	77	1159

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Briggs, Charles H., assignor of one-half to T. A. Kerr, Kankakee, Ill. Hose-reel.....	561,759	June 9	1254	299	75	1633
Briggs, Charlie, and F. W. Masters, Manchester, England. Stereoscope.....	564,466	July 21	2151	503	76	427
Briggs, Cora M. (See Collins, Mary E., assignor.)						
Briggs, Edwin D. (See Pennell and Briggs.)						
Briggs, Francis W., Auburn, Me. Adjustable binder for index-files.....	568,734	Oct. 6	30	7	77	8
Briggs, George G., <i>et al.</i> (See Middaugh, Elmer H., assignor.)						
Briggs, George W., Itasca, Tex. Grass and weed exterminator.....	568,401	Sept. 29	2921	703	76	1882
Briggs, Henry, Hasbrouck Heights, N. J. Saddle.....	567,881	Sept. 15	1989	477	76	1682
Briggs, James C. (See Ream, John L., assignor.)						
Briggs, John N. (See Ryder, David C., assignor.)						
Briggs, John N., Coeymans, N. Y. Apparatus for planing cakes of ice. (Reissue).....	11,566	Sept. 8	1463	351	76	1564
Briggs, John W. T., assignor to W. H. Slade, Buffalo, N. Y. Rotary pump.....	556,721	Mar. 17	2220	517	74	1580
Briggs, Lucius, Glasgo, Conn. Twisting-machine.....	559,565	May 5	370	89	75	764
Briggs Manufacturing Company. (See Briggs, Thomas A., assignor.)						
Briggs, Marvin. (See Angus, Job W., assignor.)						
Briggs, Orlando P., assignor to Western Electric Company, Chicago, Ill. Elbow-making machine.....	555,493	Mar. 3	15	4, 5	74	1133
Briggs, Orlando P., assignor to Western Electric Company, Chicago, Ill. Elbow.....	555,494	Mar. 3	21	5	74	1134
Briggs, Orlando P., assignor to Western Electric Company, Chicago, Ill. Nut-reaming machine.....	556,084	Mar. 10	1064	254	74	1346
Briggs, Orlando P., assignor to Western Electric Company, Chicago, Ill. Automatic sheet-metal-tube-making machine.....	563,255	July 7	28	5, 6 7, 8	76	7
Briggs, Orlando P., assignor to Western Electric Company, Chicago, Ill. Monitor milling-machine.....	563,256	July 7	36	8, 9	76	9
Briggs, Samuel M., San Francisco, Cal. Ore-crushing mill.....	569,272	Oct. 13	956	229	77	198
Briggs, Thomas A., Arlington, Mass. Table for bookbinding-machines.....	552,630	Jan. 7	217	60	74	43
Briggs, Thomas A., Arlington, Mass. Machine for separating and feeding sheets.....	560,153	May 12	1479	334	75	975
Briggs, Thomas A., Arlington, Mass., assignor to Briggs Manufacturing Company, Niagara Falls, N. Y. Apparatus for transferring paper from feeding-machines to printing-presses.....	553,666	Jan. 28	2111	499 500 501	74	437
Briggs, Thomas A., Arlington, Mass., assignor to Briggs Manufacturing Company, Niagara Falls, N. Y. Apparatus for transferring paper from feeding-machines to printing-presses.....	557,761	Apr. 7	434	102 103 104	75	82
Briggs, Thomas A., Niagara, Canada, and W. A. Philpott, Jr., Niagara Falls, N. Y. Electric clutch.....	554,766	Feb. 18	1708	401	74	857
Briggs, Thomas A., Niagara, Canada, and W. A. Philpott, Jr., Niagara Falls, N. Y. Paper-feeding machine.....	562,797	June 30	3029	732	75	2018
Briggs, Thomas A., Niagara, Canada, and W. A. Philpott, Jr., Niagara Falls, N. Y. Paper-feeding machine.....	572,154	Dec. 1	108	25, 26	77	1298
Briggs, Warren R., Bridgeport, Conn. Golf-driver.....	556,042	Mar. 10	980	234 235	74	1331
Briggs, Warren R., Bridgeport, Conn. Golf-driver.....	556,043	Mar. 10	982	235	74	1332
Briggs, William C., assignor to Winston Cigarette Machine Company, Winston, N. C. Cigarette machine.....	553,507	Jan. 28	1828	433 434	74	386
Briggs, William H. (See Densmore and Briggs.)						
Briggs, William H., assignor to D. J. Densmore, Brooklyn, N. Y. Type-writing machine.....	554,232	Feb. 11	768	175 176 177 178	74	662
Brigham, Edward M., Battle Creek, Mich. Dress-display form.....	561,371	June 2	547	137	75	1475
Brigham, Eugene O., administrator. (See Brigham, Morrill F.)						
Brigham, Morrill F., deceased, Marlborough, Mass.; E. O. Brigham, administrator. Carriage attachment for lamps.....	571,317	Nov. 10	1592	378	77	964
Bright, Edgar H., <i>et al.</i> (See Murphy, Thomas P., assignor.)						
Bright, Fred E., Cleveland, Ohio, assignor, by mesne assignments, to Mergenthaler Linotype Company, of New Jersey. Typograph.....	557,184	Mar. 31	3022	722 723 724 725 726	74	1769
Bright, James H. (See Dailey, William H., assignor.)						
Bright, Joseph T., Midway, Ky. Spark-arrester.....	561,695	June 9	1127	268	75	1608
Bright, Joseph T., Midway, Ky. Spark-arrester.....	568,735	Oct. 6	31	7	77	9
Brightman, Latham H., Cleveland, Ohio. Machine for drawing wire.....	564,302	July 21	1871	439 440	76	376
Brill, George M. (See Brill, John A. and G. M.)						
Brill, John A. (See Adams, Walter S., assignor.)						
Brill, John A. (See Breed, Edwin S., assignor.)						
Brill, John A. (See Buckley, Charles W., assignor.)						
Brill, John A., Philadelphia, Pa. Car-truck.....	554,233	Feb. 11	779	178 179	74	667
Brill, John A., Philadelphia, Pa. Differential brake-lever.....	554,234	Feb. 11	782	179 180	74	664
Brill, John A., Philadelphia, Pa. Platform construction for street or other cars.....	554,235	Feb. 11	785	180	74	664
Brill, John A., Philadelphia, Pa. Car-seat construction.....	566,131	Aug. 18	2153	525	76	1058
Brill, John A., Philadelphia, Pa. Car-seat construction.....	566,132	Aug. 18	2157	526	76	1059
Brill, John A., Philadelphia, Pa. Car-truck.....	571,824	Nov. 24	2471	586 587	77	1159
Brill, John A. and G. M., Philadelphia, Pa. Electric-motor railway-truck.....	571,825	Nov. 24	2475	587	77	1160
Brimmer, H. H. (See Haas, Philip J., assignor.)						
Brinck, Edward, Hicksville, Ohio. Wagon-tongue steadier.....	554,577	Feb. 11	1368	321	74	776
Brinckerhoff, Clarence E., <i>et al.</i> (See Rau, John, assignor.)						
Brinckerhoff, Francis M., Matteawan, N. Y., assignor to Rowell-Potter Safety Stop Company, Portland, Me. Shifting apparatus for railway-signals.....	558,770	Apr. 21	2206	531	75	448
Brinckerhoff, Henry M., assignor to C. H. Fitzhugh, Chicago, Ill. Electric-railway system.....	558,083	Apr. 14	945	233	75	195
Brinckerhoff, Henry W., Brooklyn, and H. C. Farquharson, assignors to said Farquharson and D. F. Root, New York, N. Y. Electric gas-lighting apparatus.....	553,330	Jan. 21	1531	366	74	314
Bringham, Friend J., Chicago, Ill. Knife for slitting leather.....	561,860	June 9	1434	346	75	1665
Brings, Hans, Cologne, Germany. Cycle.....	571,298	Nov. 10	1562	371	77	958
Brinkhoff, Conrad. (See Hoffer, Phillip, assignor.)						
Brinkman, John H., Indianapolis, Ind. Knife-sharpener.....	572,190	Dec. 1	164	39	77	1309
Brinkman, Lonies H., Brooklyn, N. Y., assignor to Plumbers' Supplies Manufacturing Company. Tube-bending machine.....	559,839	May 12	592	199	75	864
Brinkman, Oscar F., assignor to A. B. Hostetter, Lancaster, Pa. Match receptacle or holder.....	570,891	Nov. 3	864	201	77	802

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Brinkman, Sebastian G., assignor to New York Electric Motor and Ventilator Company, New York, N. Y. Electric motor.....	570,424	Oct. 27	3058	724	77	616
Brinkmann, Heinrich, Munich, Germany. Means for adjusting blades of screw-propellers.....	571,745	Nov. 24	2338	558 559	77	1134
Brinser, James D., Lancaster, assignor to Marietta Manufacturing Company, Marietta, Pa. Electric-motor fan.....	560,569	May 19	2222	508	75	1158
Brintnall, Thomas M., Medina, Ohio. Safe.....	559,566	May 5	371	90	75	754
Brintnall, Thomas M., Medina, Ohio. Safe.....	562,277	June 16	2130	517 518 519	75	1815
Brintnall, Thomas M., Medina, and D. A. Lane, Cleveland, Ohio. Safe.....	561,086	June 2	13	3, 4	75	1369
Brintnell, Archibald H., Toronto, Canada. Electric propulsion of cars.....	557,960	Apr. 7	775	185	75	146
Briscoe, Benjamin, Detroit, Mich. Oil-can.....	574,300	Dec. 29	4030	957	77	2103
Briscoe, William, Philadelphia, Pa. Ball-bearing.....	561,261	June 9	1435	346	75	1666
Brisky, Dudley, Milltown, Ala. Cultivator.....	552,684	Jan. 7	327	86	74	64
Brislin, David A., St. Louis, Mo. Pipe-thimble.....	564,967	Aug. 4	10	3	76	618
Bristly, Joseph, Scranton, Pa. Grate.....	571,506	Nov. 17	1916	457	77	1037
Bristol Company. (See Bristol, William H., assignor.)						
Bristol, Lucius F., Shell Rock, J. O. Baxter, and J. M. Searles, Cedar Rapids, Iowa. Towel-holder.....	569,608	Oct. 20	1553	385	77	324
Bristol, William H., Hoboken, N. J., assignor to Bristol Company, Waterbury, Conn., and New York, N. Y. Thermometer.....	553,202	Jan. 14	1303	315	74	258
Bristow, Charles, Wellington, New Zealand. Raisin-seeding machine.....	561,255	June 2	300	76	75	1426
Bristow, William G., Medicine Lodge, Kans. Child's seat for bicycles.....	558,010	Apr. 7	892	924 925	75	167
Brittan, Graham & Mathes Company. (See Burgum, William C., assignor.)						
Brittingham, James F., New York, N. Y. Puzzle.....	567,804	Sept. 15	1864	446	76	1656
Britton, William, Boone, assignor of one-half to J. Halbert, Boonesborough, Iowa. Water-gage.....	569,167	Oct. 13	775	181	77	164
Broadhead, Ernest W. (See Coston and Broadhead.)						
Brobeck, George R., and L. D. Lewis, Tulso, Ind. Ter. Gravity-lock.....	572,628	Dec. 8	952	230	77	1479
Broberg, Enoch. (See Chapman, Truman M. P., assignor.)						
Brock, Addie M. (See Brock, William E. and A. M.)						
Brock, Andrew L., Lockhart, Tex. Disk cultivator.....	570,660	Nov. 3	454	107	77	724
Brock, Frederic F. J., Philadelphia, Pa. Caster.....	558,720	Apr. 21	2121	511	75	432
Brock, Levi M., Mackinaw, Ill. Fence-post.....	570,784	Nov. 3	663	153	77	760
Brock Veneered Lumber Company. (See Brock, William E., assignor.)						
Brock Veneered Lumber Company. (See Brock, William E. and A. M., assignors.)						
Brock, William E., Plainfield, N. J., assignor to Brock Veneered Lumber Company, of New Jersey. Veneering implement.....	568,156	Sept. 22	2510	604	76	1790
Brock, William E., Plainfield, N. J., assignor to Brock Veneered Lumber Company, of New Jersey. Veneering-tool.....	568,157	Sept. 22	2511	604	76	1790
Brock, William E., Plainfield, N. J., assignor to Brock Veneered Lumber Company, of New Jersey. Veneering-mold.....	568,158	Sept. 22	2512	604 605	76	1790
Brock, William E., Plainfield, N. J., assignor to Brock Veneered Lumber Company, of New Jersey. Veneering-machine.....	568,159	Sept. 22	2513	605	76	1790
Brock, William E., Plainfield, N. J., assignor to Brock Veneered Lumber Company, of New Jersey. Veneering-tool.....	568,160	Sept. 22	2514	605	76	1791
Brock, William E., Plainfield, N. J., assignor to Brock Veneered Lumber Company, of New Jersey. Veneering-machine.....	568,161	Sept. 22	2515	605	76	1791
Brock, William E. and A. M., Plainfield, N. J., assignors to Brock Veneered Lumber Company. Veneering-machine.....	568,155	Sept. 22	2509	604	76	1790
Bröcker, Heinrich, assignor to J. T. Köhler and W. Willhain, Limbach, Germany. Tile.....	562,798	June 30	3033	732	75	2019
Brockett, Herbert W., Hamden, Conn. Bit-brace.....	553,226	Jan. 21	1340	325	74	820
Brockerman, Gideon, Rushsylvania, Ohio. Thill-coupling.....	562,883	June 30	3207	776	75	2052
Brockman, Clarence E., Mount Sterling, Ill. Sulky.....	562,702	June 23	2249	692	75	1965
Brockman, Michael W., Quincy, Ill. Urinal guard or screen.....	557,762	Apr. 7	437	103	75	82
Brocksmith, William H., Carrollton, Mo. Antirattler attachment for thill-couplings.....	572,629	Dec. 8	953	230	77	1480
Brockton Folding Machine Company. (See Bonney, Charles A., assignor.)						
Brockton Last Co. (See Locke, Howard G., assignor.)						
Brockway, John P., Denver, Colo. Photographic dark room.....	558,348	Apr. 14	1468	360 361	75	295
Broderick, Daniel, Laurel Hill, N. Y. Lifter and carrier.....	559,669	May 5	541	125	75	785
Broderick, Daniel, Laurel Hill, N. Y. Lifting and carrying device.....	570,622	Nov. 3	380	91	77	708
Broderick, James H., et al. (See McGinley, James, assignor.)						
Brodeur, Rémi, Fall River, Mass. Shuttle-threader.....	569,853	Oct. 20	1999	477	77	404
Brodrick, John, New York, N. Y. Apparatus for producing stencils.....	563,355	July 7	211	.....	76	43
Broekelmann, John L., and J. F. Buckler, Fort Madison, Iowa. Fish-trap.....	563,356	July 7	212	47	76	43
Broeker, Henry, assignor of one-half to H. W. Wichman, St. Louis, Mo. Automatic damper.....	562,799	June 30	3034	733	75	2019
Broemme, Edward, assignor of one-half to C. Deneys, St. Petersburg, Russia. Producing lakes.....	560,890	May 26	2862	.....	75	1295
Broers, Henry, Galveston, Tex. Bicycle-wheel.....	552,984	Jan. 14	920	223	74	186
Bromeling, Merton. (See Strank, Bromeling, and Bates.)						
Bromhall, Charles, Manchester, England. Rib-tip-holding ring for umbrellas.....	565,601	Aug. 11	1202	289	76	858
Bromley, Daniel W., assignor of one-half to W. E. Barron, Lexington, Ky. Sash-guide.....	563,650	July 7	691	163	76	130
Bromley, Robert N., Des Moines, Iowa. Jeweler's tool.....	559,840	May 12	895	199	75	864
Bromley, William. (See Hann and Bromley.)						
Bromley, William, et al. (See Price, John, assignor.)						
Bromwell, Jacob H. (See Weber, Charles G., assignor.)						
Bromwich, William A. (See Floyd, Charles A., assignor.)						
Bronaugh, John C. (See Dunn and Bronaugh.)						
Bronnert, Emile, Mulhouse, Germany, assignor to T. Schlumberger. Manufacture of solutions of tetranitrocellulose.....	573,132	Dec. 15	1841	628 629	77	1668
Bronson, Milton H., Providence, R. I. Inclined railway.....	566,373	Aug. 25	2574	629	76	1154
Bronson, Edward D., Denver, Colo. Method of and apparatus for placer mining.....	553,775	Jan. 28	2293	543	74	472
Bronson, Julius H., assignor to Oakville Company, Waterbury, Conn. Safety-pin.....	556,001	Mar. 10	898	214	74	1318
Brook, Edward, Huddersfield, England. Boiler-furnace.....	553,227	Jan. 21	1342	326	74	280
Brooke, Edwin F., and J. S. Trott, Chicago, Ill. Gate for bridge approaches.....	554,767	Feb. 18	1710	401	74	857
Brooke, George, Birdsborough, Pa. Mold for casting ingots.....	568,511	Sept. 29	3111	750	76	1917
Brooke, Thomas S. (See Thomson and Burke, assignors.)						
Brooke, Wilton, Ashville, England. Stoppering bottles.....	562,065	June 16	1793	434	75	1751
Brooker, John W., Dalton, Ga. Life-guard for freight-trains.....	555,925	Mar. 10	754	182	74	1290

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Brookes, Charles B. (See Lumley, Edwin J., assignor.)						
Brookes, Warwick, Manchester, England. Inflating-valve for pneumatic tires	564,502	July 21	2201	516	76	436
Brookins, Matthew G. (See Seiple and Brookins.)						
Brookmire, James H., Jr., St. Louis, Mo. Air-brake system	558,670	Apr. 21	2039	491	75	416
Brooks, Alfred A., Medford, Mass. Flexible metallic covering or envelop	559,968	May 12	1135	253	75	912
Brooks, Benjamin. (See Merrick and Brooks.)						
Brooks, Byron A., Brooklyn, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	572,289	Dec. 1	355	85	77	1347
Brooks, Charles B., Newark, N. J., assignor of two-thirds to P. S. Page and G. M. Halstead, Scranton, Pa. Street-sweeper	556,711	Mar. 17	2190	512	74	1572
Brooks, Charles B., Newark, N. J., G. M. Halstead, and P. S. Page, Scranton, Pa. Street-sweeper	558,719	Apr. 21	2119	510	75	431
Brooks, Charles B., Newark, N. J., assignor of two-thirds to P. S. Page and G. M. Halstead, Scranton, Pa. Dust-proof bag for street-sweepers	560,154	May 12	1483	335	75	976
Brooks, Clarence M., Oconto, Wis. Attachment for bicycle-frames	570,536	Nov. 3	180	48	77	671
Brooks, David W., Salem, Nebr. Gate	557,763	Apr. 7	437	103	75	82
Brooks, Edward, Jr., assignor of three-fourths to A. T. Baker, Philadelphia, Pa., and Press Company, Limited, of Pennsylvania. Game-indicator	558,599	Apr. 21	1913	465	75	394
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal	564,467	July 21	2153	504	76	427
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal-press	569,742	Oct. 20	1809	429	77	370
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal	573,758	Dec. 22	3002	711	77	1901
Brooks, George C., Binghamton, N. Y. Boiler-flue cleaner	563,651	July 7	692	163	76	130
Brooks, Howard K., Chicago, Ill. Spring seat-post for bicycles	559,841	May 12	896	199	75	865
Brooks, James W., trustee. (See Glidden, Charles W., assignor.)						
Brooks, James W., trustee. (See Glidden and Elliott, assignors.)						
Brooks, James W., trustee. (See Goddu, Louis, assignor.)						
Brooks, James W., trustee. (See Webster, Harold A., assignor.)						
Brooks, James W., et al., trustees. (See Glidden, Charles W., assignor.)						
Brooks, James W., et al., trustees. (See Goddu, Louis, assignor.)						
Brooks, James W., et al., trustees. (See Hatch, Charles, Jr., assignor.)						
Brooks, James W., et al., trustees. (See Newton, Arthur, assignor.)						
Brooks, James W., et al., trustees. (See Raymond, Freeborn F., 2d, assignor.)						
Brooks, James W., et al., trustees. (See Raymond and Fogg, assignors.)						
Brooks, John, et al., trustees. (See Glidden, Charles W., assignor.)						
Brooks, John, et al., trustees. (See Hatch, Charles, Jr., assignor.)						
Brooks, John, et al., trustees. (See Newton, Arthur, assignor.)						
Brooks, John, et al., trustees. (See Raymond, Freeborn F., 2d, assignor.)						
Brooks, John, et al., trustees. (See Raymond and Fogg, assignors.)						
Brooks, John E., Birmingham, England. Cycle-saddle	567,882	Sept. 15	1990	477	76	1682
Brooks, John B., Birmingham, England. Cycle-saddle	567,883	Sept. 15	1992	478	76	1683
Brooks, John E., Calumet, Pa. Game apparatus	570,743	Nov. 3	601	138	77	748
Brooks Locomotive Works. (See Carney, Charles J., assignor.)						
Brooks, M. H. (See Palm, George, assignor.)						
Brooks, Morgan, Minneapolis, Minn. Automatic telephone system	570,840	Nov. 3	764	175	77	781
Brooks, Stephen H., assignor to E. A. Peirce, New York, and J. O. Cox, Brooklyn, N. Y. Dental engine	555,035	Feb. 18	2183	530	74	944
Brooks, Stephen H., assignor to Foot & Brooks Company, New York, N. Y. Manufacture of buffer-wheels	572,243	Dec. 1	260	62	77	1328
Brooks, William. (See Carroll and Brooks.)						
Brooks, William M. (See Smith, William F., assignor.)						
Broome, Lewis H., Jersey City, N. J. Window-sash	555,597	Mar. 3	192	44	74	1165
Brophy, John J. (See Schurmann and Brophy.)						
Brosnan, Cornelius J., Springfield, Mass. Luggage-carrier for vehicles	555,472	Feb. 25	2982	710	74	1110
Brosnan, Edward J. (See Brown and Brosnan.)						
Broström, Carl F., Chicago, Ill. Clutch	570,247	Oct. 27	2695	640	77	549
Brott, George F., Washington, D. C. Elevator	569,539	Oct. 13	1408	332	77	282
Broucek, Karel, M. Ostrava, Austria-Hungary. Miner's safety-lamp	557,548	Apr. 7	27	8	75	7
Brough, James R. (See Brown and Brough.)						
Brough, Thomas J., Baltimore, Md. Crude-oil burner	552,813	Jan. 7	597	145	74	112
Brough, Thomas J., Baltimore, Md. Hydrocarbon-burner	559,670	May 5	542	125	75	785
Broussard, Aman, New Iberia, La. Support and tripping device for slings	572,522	Dec. 8	762	181	77	1438
Brousseau, Stanislas F., San Francisco, Cal. Valve for steam-engines	560,467	May 19	2060	469	75	1129
Brower, Abraham T. H., Chicago, Ill. Vessel-vent	553,389	Jan. 21	1628	388	74	333
Brower, Abraham T. H., assignor to Union Quoin Company, Chicago, Ill. Printer's quoin	560,021	May 12	1237	277	75	929
Brower, Bloomfield, New York, N. Y. Revolving bookcase	559,161	Apr. 28	2933	708	75	602
Brower, Ferdinand C., Melvin, Ill. Gopher attachment for cultivators	557,764	Apr. 7	440	104	75	83
Brower, George H., Roann, Ind. Evaporating-pan	556,957	Mar. 24	2624	617	74	1669
Brownley, Patrick, et al. (See Pattison, Richard, assignor.)						
Brown, Albert W. (See Lewis, James M., assignor.)						
Brown, Alexander T., Syracuse, N. Y. Type-making machine	572,673	Dec. 8	1023	248	77	1493
Brown, Alfred J. P., and J. R. Brough, London, England. Paper-roll holder	561,481	June 2	742	182	75	1510
Brown, Andrew B., Edinburgh, Scotland. Steering vessels	568,736	Oct. 6	32	8,9	77	11
Brown, Andrew B., Edinburgh, Scotland. Telemotor apparatus for steering machinery	568,737	Oct. 6	36	9	77	10
Brown, Andrew B., Edinburgh, Scotland. Apparatus for steering vessels	568,738	Oct. 6	39	9,10	77	10
Brown, Andrew J., Chicago, Ill. Safety-guard for cars	569,168	Oct. 13	776	181	77	164
Brown, Andrew J., Washington, D. C., assignor of one-half to R. S. Anderson, St. Louis, Mo. Dental tool	557,523	Mar. 31	3643	873	74	1882
Brown, Anson C., et al. (See Robinson, Edgar, assignor.)						
Brown, Argo, Lyons, Ind. Wire-fence machine	563,737	July 14	850	202	76	175
Brown, Arthur F., assignor to American Stoker Company, Dayton, Ohio. Underfeed stoker	570,978	Nov. 10	1003	232	77	853
Brown, Arthur R., London, and E. C. J. Devis, School Road, near Birmingham, England, assigns to C. W. De Knight, Washington, D. C. Coin-controlled apparatus	553,204	Jan. 14	1308	317	74	259
Brown, Augustus P., Fort Madison, Iowa. Machine for reducing paper-stock to pulp	569,321	Oct. 13	1047	248	77	216
Brown, Axel B., Chicago, Ill. Micrometer-calipers	552,659	Jan. 7	277	75	74	54

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Brown Bag Filling Machine Company. (See Cummings, Henry H., assignor.)						
Brown, Benoni S., Onset, Mass. Dental engine	561,561	June 9	897	216	75	1565
Brown, Benoni S., Onset, Mass. Dental handpiece	563,131	June 30	3663	877	75	2143
Brown, Berry A., Franklin, assignor of one-half to R. J. Meiser, Cincinnati, Ohio. Collar-button	570,371	Oct. 27	2954	701	77	596
Brown, Braselton T., Plainfield, assignor to Brown Straw Binder Company, Indianapolis, Ind. Grain-binder	553,203	Jan. 14	1305	316 317	74	259
Brown, Calvin. (See Brown, Wilfred L. and C.)						
Brown, Carl E., Columbus, Ohio. Guitar	568,108	Sept. 22	2428	583	76	1774
Brown, Charles. (See Fletcher and Brown.)						
Brown, Charles A., Troy, N. Y. Undergarment	570,696	Nov. 3	520	121	77	735
Brown, Charles F., trustee. (See Julian, Gideon, assignor.)						
Brown, Charles P. (See Friend and Brown.)						
Brown, Charles S., assignor to F. B. Fargo & Company, Lake Mills, Wis. Combined churn and butter-worker	565,720	Aug. 11	1419	346	76	900
Brown, Charles S., and F. B. Fargo, Lake Mills, Wis. Churn and butter-worker	557,961	Apr. 7	780	185 186	75	147
Brown, Charles S., and F. B. Fargo, Lake Mills, Wis., assignors to F. B. Fargo & Company, of Wisconsin. Churn and butter-worker	565,719	Aug. 11	1415	344 345	76	899
Brown, Charles S., and W. E. Penn, assignors to F. B. Fargo & Company, Lake Mills, Wis. Milk weighing and discharging machine	565,721	Aug. 11	1421	346 347	76	900
Brown, Charles T., assignor of one-half to F. L. Brown, Chicago, Ill. Ball-bearing for bicycles	569,005	Oct. 6	502	113	77	96
Brown, Charles W., assignor of one-fourth to R. L. Heflin, New Orleans, La. Machine for drying and cleaning cotton	556,528	Mar. 17	1919	447	74	1521
Brown, Chauncey C., Marquette, Mich. Bottle neck and cap	556,804	Mar. 24	2374	558	74	1023
Brown, Chauncey C., Marquette, Mich., assignor of one-half to W. Oliver, Jr., Lowville, N. Y. Thill-coupling	561,651	June 9	1050	254	75	1593
Brown, Christen P., Redlands, Cal. Flume-gate	554,768	Feb. 18	1712	401	74	857
Brown, Clarence E., Chicago, Ill. Wire joint	573,386	Dec. 15	2298	549	77	1751
Brown, Daniel W., assignor to Household Sewing Machine Company, Providence, R. I. Sewing-machine cabinet	561,087	June 2	17	4, 5	75	1370
Brown, Daniel W., assignor to Household Sewing Machine Company, Providence, R. I. Shuttle for sewing-machines	561,088	June 2	19	5	75	1371
Brown, David B. (See Daniels, William and E. C., assignors.)						
Brown, Edward, Philadelphia, Pa. Recording-pyrometer	556,841	Mar. 24	2428	570 571	74	1633
Brown, Edward, Philadelphia, Pa. Recording-pyrometer	571,334	Nov. 17	1622	385	77	984
Brown, Edward J., Springfield, Mass. Automatic flame-extinguisher for lamps	567,677	Sept. 15	1648	397	76	1616
Brown, Edward L., San Francisco, Cal. Stopper	563,132	June 30	3665	877	75	2143
Brown, Edwin. (See Brace and Brown.)						
Brown, Effingham T., Groton, N. Y. Weather-strip	554,980	Feb. 18	2076	494	74	925
Brown, Elijah C. (See Davis and Brown.)						
Brown, Flora L. (See Brown, Charles T., assignor.)						
Brown Folding Machine Company. (See Wendt, Frederick H., assignor.)						
Brown, Francis C., et al. (See Moore, Morris W., assignor.)						
Brown, Frank. (See Nease, Frederick H., assignor.)						
Brown, Frank H. (See Gorman, Thomas, assignor.)						
Brown, Frank O., Beverly, Mass. Belt and garment holder	552,771	Apr. 21	2207	532	75	448
Brown, Frank W., Randolph, N. Y. Can-opener	561,862	June 9	1435	346	75	1666
Brown, Franklin, assignor to T. Cunningham, L. and G. Brown, F. P. Pendleton, J. A. S. Brown, Philadelphia, Pa., and H. B. Lincoln, Worcester, Mass. Rod-packing	572,862	Dec. 8	1353	326	77	1556
Brown, Fred M., and E. J. Brosnan, assignors of one-third to C. L. Johnson, Stafford, Conn. Pneumatic tire	565,258	Aug. 4	594	140	76	724
Brown, Fred R. (See Moore and Brown.)						
Brown, Fred R., et al. (See Moore, James L., assignor.)						
Brown, Fred W., Wolcott, N. Y. Saw-set	552,814	Jan. 7	598	145	74	112
Brown, Frederick R., Waukesha, Wis. Incubator	571,553	Nov. 17	1998	475	77	1051
Brown, George, et al. (See Brown, Franklin, assignor.)						
Brown, George A. (See Bachelder, William B., assignor.)						
Brown, George A., Hardman, Oreg. Poison-distributor	558,448	Apr. 14	1656	397	75	330
Brown, George D. (See Sluder, Campbell, and Brown.)						
Brown, George M., Franklin, La. Side-dresser for saw-teeth	568,295	Sept. 22	2738	657 658	76	1834
Brown, George R., et al. (See Travers, Lawrence S., assignor.)						
Brown, George W., West Winsted, Conn. Harness-pad	556,915	Mar. 24	2559	603	74	1657
Brown, Gilman W., West Newbury, Mass. Apparatus for stopping engines	563,011	June 30	3435	826	75	2100
Brown, Havilah G., assignor to Brown Sight Feed Lubricator Company, St. Louis, Mo. Lubricator	554,439	Feb. 11	1145	267	74	734
Brown, Henry. (See Schmied, Wenzel H. B., assignor.)						
Brown, Henry B., et al. (See Wiswell, Jacob C., assignor.)						
Brown, Henry J. S., Cambuslang, assignor to Acme Package Company, Limited, Bridge-ton, Glasgow, Scotland. Metallic or composite box	571,427	Nov. 17	1767	422	77	1010
Brown, Ira F., Palmer, Mass. Wagon	567,961	Sept. 22	2131	514	76	1722
Brown, Israel F., New London, Conn. Adjustable table	559,162	Apr. 28	2934	708	75	602
Brown, James, Pawtucket, R. I. Spinning-machine	554,360	Feb. 11	1003	232	74	706
Brown, James D., and J. A. Cleaveland, Great Valley, N. Y. Hoisting and dumping platform	572,468	Dec. 1	667	157	77	1406
Brown, James E. and W. M., Toledo, Ohio. Combination gas and electric fixture	573,387	Dec. 15	2299	549	77	1751
Brown, James H., Denver, Colo. Steam-power stamp	565,876	Aug. 18	1699	416 417	76	970
Brown, James R. (See Bonnallie, David G., assignor.)						
Brown, James S., Eureka, Cal. Neck-yoke	570,785	Nov. 3	666	153	77	761
Brown, Jesse H., Syracuse, assignor to Rochester Machine Screw Company, Rochester, N. Y. Counter-shaft	561,198	June 2	222	54	75	1411
Brown, John A. S., et al. (See Brown, Franklin, assignor.)						
Brown, John G., et al. (See Barrow, Samuel, assignor.)						
Brown, John R., Harrison Hot Springs, Canada. Automatic gold-collecting apparatus	568,657	Sept. 29	3411	815 816	76	1972
Brown, John W. (See Bowne, Robert T., assignor.)						
Brown, John W., et al. (See Lehmann, Anthony A., assignor.)						
Brown, John W., Jr., Philadelphia, Pa. Power meat-chopper	562,279	June 16	2136	519 520	75	1816
Brown, John W., Jr., Philadelphia, Pa. Automatic molding-machine	567,884	Sept. 15	1994	478	76	1683
Brown, John W., and A. A. Gehrt, assignors to Collins Plow Company, Quincy, Ill. Bal- ing-press	556,301	Mar. 10	1494	347	74	1425

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Brown, Joseph N., Muskegon, Mich. Weighing-truck.....	569,997	Oct. 27	2246	533	77	463
Brown, Joseph W., (See Blankinsop and Brown.)						
Brown, Justus H., Lincoln, Nebr. Cultivator.....	552,743	Jan. 7	438	110	74	83
Brown, Lincoln, (See Farrell, Sydney E., assignor.)						
Brown, Lucien, <i>et al.</i> (See Brown, Franklin, assignor.)						
Brown, Maurice D., and D. J. Griffin, Waterbury, Conn. Blowpipe apparatus.....	574,237	Dec. 29	3932	935	77	2084
Brown, Milton A., Clearfield, Iowa. Plow-clevis.....	557,765	Apr. 7	440	104	75	83
Brown, Nathaniel H., assignor to N. H. Brown, Norristown, M. Earle, and H. S. Williams, Philadelphia, Pa. Gas-burning lamp.....	566,055	Aug. 18	2023	491	76	1035
Brown, Orlando, <i>et al.</i> (See Murray and Cole, assignors.)						
Brown, Patrick H., Redlands, Cal. Ant-trap.....	567,076	Sept. 1	607	142	76	1397
Brown, Percy S., Toledo, Ohio. Distributing-box and fuse-plug.....	554,438	Feb. 11	1142	265	74	733
Brown, Philip F., Ocala, Fla. Orange-tree jacket.....	560,966	May 26	2981	664	75	1318
Brown, Reuben H., <i>et al.</i> (See Salisbury, George P., assignor.)						
Brown, Richard L., Salisbury, N. C. Sash-balance.....	568,739	Oct. 6	42	10	77	11
Brown, Robert, <i>et al.</i> (See Turbeville, De Kalb, assignor.)						
Brown, Robert C., Somerville, Mass. Rail-bond for electric railways.....	554,859	Feb. 18	1872	441	74	888
Brown, Robert L., Altoona, Pa. Spring-motor.....	563,909	July 14	1181	278	76	236
Brown, Robert K., Whittinsville, Mass. Sash-balance.....	556,659	Mar. 17	2113	494	74	1557
Brown, Robert P., <i>et al.</i> (See Craw, Joseph T., assignor.)						
Brown, Robert P., <i>et al.</i> (See Toye, William H. R., assignor.)						
Brown, Rufus D., Gardner, Mass. Adjustable foot-rest.....	560,082	May 12	1352	304	75	951
Brown, Sampson H., Lockhart, Tex. Tag.....	573,321	Dec. 15	2190	523	77	1730
Brown, Samuel, Philadelphia, Pa. Friction-clutch.....	572,957	Dec. 15	1531	366	77	1607
Brown, Samuel L., <i>et al.</i> (See Skanks, Stephen C., assignor.)						
Brown & Sharpe Manufacturing Company, (See Kretschmer, Frederick G., assignor.)						
Brown & Sharpe Manufacturing Company, (See Spalding, Frank, assignor.)						
Brown, Sherman E., (See Pratt, George F., assignor.)						
Brown Sight Feed Lubricator Company, (See Brown, Havilah G., assignor.)						
Brown, Silas P., Canova, S. D. Molasses-pitcher.....	573,759	Dec. 22	3003	711	77	1901
Brown Straw Binder Company, (See Brown, Braselton T., assignor.)						
Brown, Stuart A., assignor of one-half to E. H. Bennett, Hubbardston, Mass. Bicycle-sup-port.....	562,278	June 16	2135	519	75	1815
Brown, Summers, (See Green, George W., assignor.)						
Brown, Summers, (See Kunze and Brown.)						
Brown, Sylvester J., Denver, Colo. Bicycle-saddle.....	556,250	Mar. 10	1366	321	74	1401
Brown, Theodore P., Worcester, Mass. Automatic organ.....	574,186	Dec. 29	3816	911	77	2062
Brown, Thomas A., Brooklyn, N. Y. Car-signal.....	562,948	June 30	3332	801	75	2980
Brown, Thomas E., Jr. (See Thorpe and Brown.)						
Brown, Thomas E., Jr., and R. H. Thorpe, New York, N. Y. Balanced check-valve.....	558,034	Apr. 14	947	233	75	196
Brown, Thomas E., Jr., and R. H. Thorpe, New York, N. Y., assignors to National Com-pany, Chicago, Ill. Apparatus for controlling speed of fluid flowing through pipes.....	569,781	Oct. 20	1883	447	77	383
Brown, Wilford C., Sinai, Ky. Horse-detaching device.....	568,834	Oct. 6	201	48	77	40
Brown, Wilfred L. and C., assignors of one-half to L. S. Roylance, and C. A. W. Wagner, San Francisco, Cal. Amalgamator.....	572,353	Dec. 1	471	111	77	1368
Brown, Willard C., (See Woodward and Brown.)						
Brown, William, (See Moore, John V., assignor.)						
Brown, William B., Baltimore, Md. Steam-engine.....	567,805	Sept. 15	1865	446	76	1657
Brown, William B., assignor of one-half to F. M. North, Labadie, Mo. Wagon-brake.....	567,373	Sept. 8	1149	276	76	1506
Brown, William H., Alexis, Ill. Compound for facilitating churning of butter.....	558,035	Apr. 14	949		75	196
Brown, William M., (See Brown, James E. and W. M.)						
Brown, William M., Johnstown, Pa. Railway-switch.....	554,437	Feb. 11	1140	266	74	733
Brown, William M., Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Elec-tric-railway system.....	558,151	Apr. 14	1142	279	75	233
Brown, William E., (See Ellis, Abram, assignor.)						
Brown, William T., Stamford, Conn. Trousers-stretcher.....	561,863	June 9	1436	346	75	1666
Brown, William Z., assignor of one-half to Schatsiek-Baecker Building Company, Quincy, Ill. Weather-strip.....	566,653	Aug. 25	3043	744	76	1244
Brown, Willis S., assignor to National Sewing Machine Company, Belvidere, Ill. Handle-bar for velocipedes.....	556,132	Mar. 10	1150	270	74	1362
Brown, Wilson, Camden, N. J. Bonding device for electric railways.....	553,099	Jan. 14	1121	272	74	924
Browne, Arthur B., Boston, Mass., assignor to American Electric Lead Company, Kittery, Me. Manufacture of white lead.....	563,555	July 7	546	125	76	103
Browne, Arthur B., Cambridge, and E. D. Chaplin, Natick, Mass., assignors to American Lead Company, Kittery, Me. Manufacturing white lead by electrolysis.....	555,232	Feb. 25	2541	598	74	1028
Browne, Arthur B., Cambridge, and E. D. Chaplin, Natick, Mass., assignors to American Electric Lead Company, Kittery, Me. Manufacturing white lead.....	563,553	July 7	541	125	76	102
Browne, Arthur B., Cambridge, and E. D. Chaplin, Natick, Mass., assignors to American Electric Lead Company, Kittery, Me. Manufacturing oxides of lead.....	563,554	July 7	544	125	76	102
Browne, Arthur W., Princes Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Metallic vessel for compressed gases.....	555,300	Feb. 25	2670	625	74	1052
Browne, Arthur W., Princes Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental engine.....	558,152	Apr. 14	1143	279	75	234
Browne, Arthur W., Princes Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Electrically-actuated dental plunger.....	558,153	Apr. 14	1145	280	75	234
Browne, Arthur W., Princes Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Ball-bearing for dental-engine shafts.....	558,772	Apr. 21	2208	532	75	448
Browne, Arthur W., Princes Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Surgical engine.....	562,800	June 30	2035	733	75	2019
Browne, Arthur W., Princes Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chair.....	573,133	Dec. 15	1842	444	77	1668
Browne, Arthur W., and G. L. Harrison, Princes Bay, N. Y., assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental handpiece.....	560,312	May 19	1783	406	75	1080
Browne, Arthur W., and G. L. Harrison, Princes Bay, N. Y., assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Lathe for operating tools by flexi-ble shafts.....	562,508	June 23	2513	609	75	1903
Browne, David H., Brooklyn, assignor to Canadian Copper Company, Cleveland, Ohio. Electroplating pure nickel from ferro-nickel anodes.....	559,255	Apr. 28	3118	753	75	637
Browne, Frank C., <i>et al.</i> (See Cottrell, George R., assignor.)						
Browne, Frank E., Los Angeles, Cal. Heating-furnace.....	566,133	Aug. 18	2160	526	76	1059
Browne, John D., Springfield, Mass. Rotatable sign for street-cars.....	571,942	Nov. 24	2693	637	77	1202
Browne, Reed H., Ridgeway, S. C. Pocket attachment.....	562,454	June 23	2437	592	75	1883

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Browne, Walram S., Brooklyn, N. Y. Electrically-actuated switch mechanism.....	570,373	Oct. 27	2956	702	77	597
Browne, William F., New York, N. Y. Process of and apparatus for making gas.....	554,236	Feb. 11	787	181	74	665
Browne, William F., New York, N. Y. Pneumatic pump.....	570,372	Oct. 27	2955	701	77	597
Browne, William G., Meriden, Conn. Can-opener.....	561,482	June 2	744	183	75	1511
Brownell, Alexander C., Providence, R. I. Roller-bearing for wheels of vehicles.....	566,056	Aug. 18	2024	491	76	1035
Brownell Car Company. (See Baier, Frederick A., assignor.)						
Brownell, Frank A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic roll-holder spool.....	554,769	Feb. 18	1713	401	74	857
Brownell, Frank A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-plate holder.....	562,168	June 16	1957	475	75	1783
Brownell, Frank A., assignor to Eastman Kodak Company, Rochester, N. Y. Tripod.....	572,326	Dec. 1	428	101	77	1360
Brownell, George L., Worcester, Mass. Twisting-machine.....	560,680	May 26	2477	568	75	1222
Brownell, George L., Worcester, Mass. Machine for covering wire or cord.....	560,681	May 26	2482	569	75	1223
Brownell, George L., Worcester, Mass. Machine for covering wire.....	560,682	May 26	2484	570	75	1223
Brownell, George L., Worcester, Mass. Twisting-machine.....	565,957	Aug. 18	1852	450	76	1000
Browning, George, assignor of two-thirds to W. A. Johnson and H. F. Maydwell, Hinsdale, Ill. Apparatus for weaving selvages.....	572,674	Dec. 8	1026	249	77	1494
Browning, John A., and T. M. St. John, New York, N. Y. Copying-machine.....	554,237	Feb. 11	789	181	74	665
Browning, John D., Louisville, Ky. Business-directory.....	556,842	Mar. 24	2429	571	74	1634
Browning, John M., Ogden, Utah Ter. Magazine-firearm.....	552,864	Jan. 7	677	165	74	128
Browning, Joseph, assignor to Simons, Brother & Co., Philadelphia, Pa. Knurling-machine.....	554,811	Feb. 18	1774	418	74	869
Brownlee, Hamett A., Cadville, La. Earth-auger.....	573,388	Dec. 15	2301	419	77	1751
Brownley Manufacturing Company. (See Brownley, Patrick, assignor.)						
Brownley Manufacturing Company. (See Brownley and Sticker, assignors.)						
Brownley, Patrick, New York, N. Y., assignor to Brownley Manufacturing Company, of New Jersey. Steam-injector.....	571,718	Nov. 17	2266	544	77	1101
Brownley, Patrick, and F. Sticker, New York, N. Y., assignors to Brownley Manufacturing Company, of New Jersey. Steam-injector.....	571,719	Nov. 17	2268	545	77	1102
Brownold, Charles, et al. (See Miller, Max, assignor.)						
Brownson, Earl L., and H. W. Goodro, Hinesburg, Vt. Arm-rest for telegraph-operators.....	561,562	June 9	900	216	75	1565
Brownson, Edgar E., et al. (See Hanshue, William E., assignor.)						
Bruandet, Antony, Paris, France. Cigarette-making machine.....	562,213	June 16	2030	490	75	1797
Bruandet, Antony, Paris, France. Machine for making cigarette-tubes.....	566,559	Aug. 25	2916	711	76	1219
Brubaker, Benjamin F., Larned, Kans. Motor for bicycles or the like.....	554,650	Feb. 18	1512	355	74	818
Brubaker, Joseph S. (See Goos, Henry, assignor.)						
Bruce, Elizabeth L. (See Bruce and Whitehead, assignors.)						
Bruce, Holiday H., Jefferson City, Mo. Combined chair and box.....	571,335	Nov. 17	1624	386	77	984
Bruce, James D., and F. C. Whitehead, Waltham, assignors of two-ninths to E. L. Bruce, Boston, Mass. Liquid-measuring apparatus.....	559,257	Apr. 28	3121	754	75	638
Bruce, W. P. (See Jones, Oliver F., assignor.)						
Bruch, Frederick W., assignor to Acme Machinery Company, Cleveland, Ohio. Gripping-toggle for bolt-heading machines.....	565,877	Aug. 18	1702	417	76	970
Brück, Henry T., et al. (See Christiansen, John, assignor.)						
Brucker, Francis, Shelby, Ohio. Spring-binge.....	552,815	Jan. 7	599	146	74	112
Brückner, Edmund, Munich, Germany. Trousers.....	560,683	May 26	2486	570	75	1224
Bruhn, Friedrich W. G., Berlin, Germany. Fare-registering apparatus.....	571,989	Nov. 24	2772	654	77	1217
Brundage, Everett H. (See Morse and Brundage.)						
Bruner, Ernest, Plano, S. D. Ice-tire for bicycle-wheels.....	560,256	May 19	1686	384	75	1064
Bruner, Henry C. and L., Exira, Iowa. Boring-rod for well-augers.....	557,482	Mar. 31	3562	852	74	1868
Bruner, Leslie. (See Bruner, Henry C. and L.)						
Bruner, Preston M., assignor to P. M. Bruner Granitoid Company, St. Louis, Mo. Fire-proof studding.....	573,839	Dec. 22	3145	749	77	1928
Bruner, William R., Exira, Iowa. Marine vessel.....	558,671	Apr. 21	2041	492	75	416
Brunes, Nels, Minneapolis, Minn. Blind nailing device.....	554,908	Feb. 18	1956	460	74	903
Brunette, Leon, and A. P. Horne, Manchester, N. H., assignors to Northrop Loom Company, Saco, Me., and Hopedale, Mass. Loom.....	574,187	Dec. 29	3819	912	77	2063
Brunhoff, Edward. (See Lehmann and Brunhoff.)						
Brunier, Joseph. (See Wissel, Girard, and Brunier.)						
Bruning, Henry, and E. Ross, Brooklyn, assignors to Scheuer & Bros., New York, N. Y. Belt.....	557,962	Apr. 7	782	186	75	147
Brunka, Anton, New York, N. Y. Cuff-button.....	558,349	Apr. 14	1470	361	75	295
Brunner, William T. M., assignor to Weir Plow Company, Monmouth, Ill. Disk cultivator.....	553,100	Jan. 14	1122	272	74	225
Brunner, Charles. (See Alderson, George, assignor.)						
Brunner, Danton O., and J. L. Shough, Somerset, Ohio. Bottle.....	571,826	Nov. 24	2478	587	77	1161
Brunner, Jacob H., assignor of one-half to A. H. Anderson, Peoria, Ill. Binder.....	573,201	Dec. 15	1964	473	77	1690
Brunner, John F., and E. J. Lauffer, Cleveland, Ohio. Adjustable handle for bicycles.....	556,958	Mar. 24	2627	617	74	1670
Bruns, Hinrich, Bremerhaven, Germany. Lock.....	567,290	Sept. 8	987	234	76	1478
Brunson, Charles B., administrator. (See Winters, John W.)						
Brunswick, Adolph M., and G. E. Johnson, Los Angeles, Cal. Yielding and self-adjusting support for trolley-wheels.....	564,955	July 28	3002	715	76	600
Brunswick-Balke-Collender Company. (See Cunningham, Patrick M., assignor.)						
Brunswick-Balke-Collender Company. (See Dunn, Wallace F., assignor.)						
Brunswick-Balke-Collender Company. (See McIntire, Jacob N., assignor.)						
Brunswick-Balke-Collender Company. (See Wiggins, William H., assignor.)						
Brunswig, Georg H. C., Hamburg, Germany. Life-buoy.....	564,778	July 28	2699	641	76	544
Brunthaver, Charles E., Washington, D. C. Door check and closer.....	565,377	Aug. 4	769	183	76	760
Brunton, David W., Aspen, Colo. Ore-sampling machine.....	553,508	Jan. 28	1832	435	74	387
Brunzell, Charles A. (See Kullberg and Brunzell, assignors.)						
Brunzell, Charlie. (See Kullberg and Brunzell.)						
Brush Electric Company. (See Adams, Thomas E., assignor.)						
Brush, George E., Danbury, Conn. Machine for pouncing brims of hats.....	560,773	May 26	2640	606	75	1253
Brush, George E., Danbury, Conn. Machine for pouncing crowns of hats.....	562,509	June 23	2514	607	75	1903
Brush, George E., Danbury, Conn. Machine for pouncing crowns of hats.....	573,856	Dec. 29	3170	609	77	1948

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Brush, Otis B., Bridgeport, Conn., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Tuck-marking attachment for sewing-machines	557,357	Mar. 31	3348	804	74	1827
Brusie, James, Oakland, Cal. Cloth or twine cutter	570,537	Nov. 3	184	48	77	671
Bruss, Julius, Milwaukee, Wis. Table	573,960	Dec. 29	3377	898	77	1984
Bruton, Qualls, Kansas City, Kans. Branding and dehorning device	571,428	Nov. 17	1768	422	77	1010
Brutschke, Friedrich, Charlottenburg, assignor to Fabrik Landwirth Schaftlicher Maschinen F. Zimmermann & Co., Actien-Gesellschaft, Halle-on-the-Saale, Germany. Plowing by electricity	559,256	Apr. 28	3119	{ 753 } { 754 }	75	637
Braun, Camillo, Chicago, Ill. Mustache-guard	553,836	Feb. 4	28	7	74	510
Braun, Eusebius, deceased, assignor to C. Fleischmann, Cincinnati, Ohio. Preparing pressed yeast. (Reissue).	11,550	June 30	3854	-----	75	2178
Bryan, James, Pittsburg, assignor to W. M. Greenwood, Allegheny, Pa. Bond-connector for rails	566,709	Aug. 25	3146	769	76	1261
Bryan, Joseph E., West Winsted, Conn. Bottle-filler guard	572,327	Dec. 1	430	101	77	1361
Bryan, Kennerley, New York, N. Y. Main operating-valve for hydraulic elevators, &c.	561,089	June 2	21	5.6	75	1371
Bryan, Thomas A., Baltimore, Md. Gas-stove	564,681	July 28	2519	596	76	513
Bryant, Alice E. (See Bryant, George, assignor.)						
Bryant, Charles A., Wakefield, Mass., assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Safety-pin	561,199	June 2	225	54	75	1411
Bryant, Charles A., Wakefield, Mass., assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Safety-pin	561,200	June 2	227	54	75	1411
Bryant, Edward W., New York, N. Y. Tobacco-pipe	566,739	Sept. 1	14	4	76	1283
Bryant, Ellsworth S. (See Furstenau, Martin C., assignor.)						
Bryant, Emory A., Washington, D. C. Controller for electric motors	562,116	June 16	1872	454	75	1766
Bryant, Eugene A., Minneapolis, Minn. Metallic packing	563,445	July 7	356	82	76	69
Bryant, George, assignor to A. E. Bryant, San Francisco, Cal. Machine for grooving boot or shoe soles	568,892	Oct. 6	303	69	77	58
Bryant Iron Works Company. (See Bryant, Orrin, assignor.)						
Bryant Iron Works Company. (See Bryant, Walter F., assignor.)						
Bryant, James R., Crawfordsville, Ind. Roof-gutter	561,563	June 9	900	216	75	1565
Bryant, Orion E., et al. (See Badgley, Edwin L., assignor.)						
Bryant, Orrin, assignor to Bryant Iron Works Company, Buffalo, N. Y. Molding-machine	569,743	Oct. 20	1810	{ 429 } { 430 } { 431 } { 432 }	77	370
Bryant, Waldo C., Bridgeport, Conn. Electric-lamp base	574,301	Dec. 29	4031	957	77	2103
Bryant, Walter F., assignor to Bryant Iron Works Company, Buffalo, N. Y. Radiator	563,357	July 7	213	48	76	43
Bryant, Willard G. (See Leach and Bryant.)						
Bryce, Andrew, Allegheny, assignor of nine-twentieths to C. A. O'Brien, Pittsburg, Pa. Painting apparatus	561,483	June 2	744	183	75	1511
Bryce, Andrew, and L. J. Kennedy, Allegheny, assignors to Bryce Universal Fuel Firing Apparatus Company, Pittsburg, Pa. Universal fuel-injector	561,934	June 9	1546	{ 374 } { 375 }	75	1687
Bryce, Archie D., Lake City, Minn. Mechanical motor	563,556	July 7	549	125	76	103
Bryce, Robert. (See Selkirk, Alexander, assignor.)						
Bryce Universal Fuel Firing Apparatus Company. (See Bryce and Kennedy, assignors.)						
Bryden, Robert, et al. (See Johnson, Charles F., assignor.)						
Bryson, Ambrose M., Mentor, Ohio. Combined potato-planter and transplanter	557,483	Mar. 31	3564	852	74	1869
Bryson Brothers. (See Morton, William A., assignor.)						
Buch, Royer S., and J. Belser, Elizabethtown, Pa. Milk-heating vat	573,389	Dec. 15	2301	550	77	1751
Buchanan, Adelaide T., et al. (See McKechnie, Archibald E., assignor.)						
Buchanan, Alexander D., deceased, Long Island City, N. Y.; A. C. P. Buchanan, administratrix. Road-ramming machine	569,573	Oct. 13	1487	350	77	296
Buchanan, Anna C. P., administratrix. (See Buchanan, Alexander D.)						
Buchanan, Clara E., et al. (See Buchanan, Langhlin M., assignor.)						
Buchanan, James W., Asheville, N. C. Vehicle-hub	567,291	Sept. 8	989	234	76	1478
Buchanan, John P., Boston, Mass., assignor to Hall Signal Company, of Maine. Electric signaling system	571,507	Nov. 17	1917	457	77	1037
Buchanan, Langhlin M., assignor to Boss Manufacturing Company and C. E. Buchanan, Kewanee, Ill. End-gate and shoveling-board	563,218	June 30	3806	912	75	2170
Buchanan, Mitchell T., Ingersoll, Canada. Self-locking roller-gate	565,427	Aug. 11	861	{ 203 } { 204 }	76	796
Buchanan, Thomas N., et al. (See Klettner, Charles R., assignor.)						
Buchannan, Edward M., and D. J. Hughes, Savannah, Tenn. Wheel attachment	554,860	Feb. 18	1874	441	74	888
Buchel, Jules, New Orleans, La. Shunt-circuit water-rheostat	560,340	May 19	1832	417	75	1088
Bucher, Alfred S., Decatur, Ga. Acetylene-gas generator	569,273	Oct. 13	957	229	77	198
Bucher, Benjamin, White House, Ohio. Corn-harvester	572,958	Dec. 15	1533	{ 367 } { 368 }	77	1608
Bucher, Clinton H., Staunton, Va. Folding bed	571,643	Nov. 17	2143	514	77	1078
Bucher, David H., Carthage, Ohio. Connection for vehicle-tops	572,595	Dec. 8	893	216	77	1467
Bucher, Jacob F., et al. (See Patterson, Milton, assignor.)						
Buchsbaum, Samuel, Chicago, Ill. Ring	569,998	Oct. 27	2249	534	77	463
Buchtel, Joseph, assignor of one-half to E. D. White, Portland, Ore. Cigar-tray	572,469	Dec. 1	668	158	77	1406
Buchtel, Joseph, assignor of one-half to W. A. Laidlaw, E. D. Timms, and A. T. Lewis, Portland, Ore. Hand fire-extinguisher	568,658	Sept. 29	3414	816	76	1974
Buchtel, Joseph, assignor of one-half to W. A. Laidlaw, E. D. Timms, and A. T. Lewis, Portland, Ore. Distributing or spray nozzle	568,659	Sept. 29	3415	816	76	1974
Buck, George W., assignor of one-half to F. M. Curran, St. Paul, Minn. Speaking-tube	565,602	Aug. 11	1203	289	76	858
Buck, Helon E., Worcester, Mass. Ash-sifter	553,896	Feb. 4	165	35	74	536
Buck, John, Lincoln, England. Machine for cutting miter and bevel gear-wheels	565,834	Aug. 11	1614	395	76	936
Buck, Phillip J., assignor of one-half to J. B. Fitch, Thompson, Mich. Offsetting mechanism for sawmill-carriages	561,864	June 9	1437	347	75	1666
Buck, Taylor S., Brooklyn, N. Y. Printing-stamp	565,327	Aug. 4	692	166	76	744
Buckely, John A., Chicago, Ill. Stopper for bottles	560,836	May 26	2742	629	75	1274
Bucket Pump Company. (See Brigel, Leo A., assignor.)						
Buckey, George J., Hanover, Pa. Plow	568,426	Sept. 29	2963	711	76	1890
Buckeye Electric Company. (See Lean and Massey, assignors.)						
Buckeye Engine Company. (See Greuter, Charles R., assignor.)						
Buckeye Iron and Brass Works. (See Hubbell, Joseph H., assignor.)						
Buckeye Malleable Iron and Coupler Company. (See MacKenzie, John, assignor.)						
Buckeye Malleable Iron and Coupler Company. (See Timms, James, assignor.)						
Buckeye Manufacturing Company. (See Lambert, John W., assignor.)						
Buckeye Manufacturing Company. (See Rettig, Frank J., assignor.)						
Buckingham, Charles L., New York, and E. Germann, Brooklyn, N. Y.; said Germann assignor to said Buckingham. Telegraph-receiver	568,513	Sept. 29	3119	{ 752 } { 753 }	76	1919

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Buckingham, Charles L., New York, and E. Germann, Brooklyn, N. Y.; said Germann assignor to said Buckingham. Perforator and circuit-controlling apparatus therefor	568,514	Sept. 29	3123	{ 753 754 }	{ 76 }	1919
Buckingham, Charles L., New York, and E. Germann, Brooklyn, N. Y.; said German assignor to said Buckingham. Perforating-machine	568,515	Sept. 29	3128	{ 754 755 756 757 758 759 }	{ 76 }	1920
Buckingham, Charles L., New York, J. Gardam and E. Germann, Brooklyn, N. Y.; said Gardam and Germann assignors to said Buckingham. Perforator	568,516	Sept. 29	3129	{ 756 757 758 759 }	{ 76 }	1921
Buckingham, Charles L., New York, E. Germann and J. W. A. Gardam, Brooklyn, N. Y.; said Germann and Gardam assignors to said Buckingham. Perforator	568,512	Sept. 29	3112	{ 751 752 }	{ 76 }	1918
Buckingham, Edward L., Oshkosh, Wis. Shaft-support for vehicles	560,967	May 26	2981	684	75	1318
Buckingham, Frederick S., Newcastle-upon-Tyne, England. Velocipede	564,171	July 14	1661	388	76	325
Buckius, Albert O., Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-axle-box lid	561,201	June 2	229	54	75	1411
Buckius, Albert O., Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Lid for car-axle boxes	570,374	Oct. 27	2958	702	77	597
Buckius, Albert O., Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Lid for car-axle boxes	571,299	Nov. 10	1564	371	77	959
Buckius, Albert O., Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Center plate for cars	571,610	Nov. 17	3088	501	77	1067
Buckland, Horace S., Fremont, Ohio. Grinding-machine	559,842	May 12	897	200	75	865
Buckland, William A. B., London, England. Secondary voltaic battery	556,660	Mar. 17	2117	494	74	1558
Buckler, James. (See France and Buckler.)						
Buckler, John F. (See Broekelmann and Buckler.)						
Buckley, Charles. (See McCulloch and Buckley.)						
Buckley, Charles W., assignor to J. A. Brill, Philadelphia, Pa. Sand-distributing apparatus	559,671	May 5	543	126	75	786
Buckley, Clarence J., Delano, Minn. Rewinding attachment for printing-machines	557,649	Apr. 7	231	57	75	44
Buckley, Cornelius F., San Francisco, Cal. Preserving fruits, vegetables, &c	558,629	Apr. 21	1961	476	75	403
Buckley, Jeremiah, New York, N. Y. Automatic car-coupling	555,559	Mar. 3	128	29, 30	74	1154
Buckley, John, assignor to Rochester Machine Tool Works, Rochester, N. Y. Tubular steam-generator	563,557	July 7	550	126	76	104
Buckley, John H., Milltown, N. J. Cone-gearing	560,774	May 26	2643	607	75	1253
Buckner, James, Boston, assignor, by mesne assignments, of one-half to C. F. Fellows, Chelmsford, Mass. Electric-lamp support	553,220	Jan. 14	1327	322	74	263
Buckner, James, assignor to Boston Electric Insulated Pole Company, Boston, Mass. Electric-lamp post	572,354	Dec. 1	474	111	77	1368
Buckow, William. (See Beemer, Dennis, assignor.)						
Bucksath, William, New York, N. Y. Book	573,202	Dec. 15	1965	{ 473 474 734 735 }	{ 77 }	1690
Budd, J. Talman, Buffalo, N. Y. Feed-water heater and purifier	562,801	June 30	3040	{ 734 735 }	{ 75 }	2020
Budde & Westermann. (See Miller, Ernest L., assignor.)						
Budke, John F., Cannonsburg, Pa. Coupling for rolls	573,203	Dec. 15	1967	474	77	1690
Budlong, William G., Providence, R. I. Drill-grinder	571,336	Nov. 17	1626	386	77	984
Bueb, Julius, Dessau, Germany. Preventing freezing of gas-pipes	559,992	May 12	1180		75	921
Buecher, August, Heidelberg, Germany. Rust-preventive paint	552,744	Jan. 7	438		74	84
Buehler, John G., et al. (See George, Henry H., assignor.)						
Buell, Charles E. (See Howland, Stephen H., assignor.)						
Buell, Charles E., North Plainfield, N. J. Automatic fire-extinguisher	563,910	July 14	1182	278	76	236
Buell, Charles E., North Plainfield, N. J. Automatic fire-extinguisher	570,900	Nov. 10	878	204	77	830
Buell, Charles E., North Plainfield, N. J. Automatic fire-extinguisher	570,901	Nov. 10	879	204	77	830
Buell, Charles E., North Plainfield, N. J. Automatic fire-extinguisher	572,404	Dec. 1	576	137	77	1387
Buell, Charles O., assignor to H. B. Ives & Co., New Haven, Conn. Bracket and hook	564,468	July 21	2154	504	76	427
Buell, William H., Laughlinton, Pa. Heel-stiffener	559,672	May 5	545	126	75	786
Buergermeister, Wilhelm, Philadelphia, Pa. Vessel	559,928	May 12	1067	237	75	896
Buerk, David M., assignor of one-half to F. O. Collins, Paris, Mo. Churn	561,652	June 9	1051	254	75	1593
Buescher, Ferdinand A., assignor to Buescher Manufacturing Company, Elkhart, Ind. Device for inflating pneumatic tires	563,839	July 14	1044	246	76	210
Buescher Manufacturing Company. (See Buescher, Ferdinand A., assignor.)						
Bueter, Bernard H. (See Pendergast and Bueter.)						
Buffalo Chemical Fire Extinguisher Company. (See Lynd, George P., Jr., assignor.)						
Buffalo Dental Manufacturing Company. (See Robie, John E., assignor.)						
Buffalo Scale Company. (See Richmond, Theodore L., assignor.)						
Buffalo Steel House Company. (See Plumbly, Frederic K., assignor.)						
Buffat, Edward F., Knoxville, Tenn. Game apparatus	566,134	Aug. 18	2161	526	76	1059
Buffington, Adelbert R., and W. Crozier, U. S. Army. Gun-mounting	555,426	Feb. 25	2889	{ 687 688 689 }	{ 74 }	1093
Buffington, Charles W., Cleveland, Ohio. Gas-burner	565,878	Aug. 18	1704	417	76	970
Buffum, Herbert H., Abington, Mass. Slug or nail strip	560,968	May 26	2983	685	75	1318
Buffum, Herbert H., Abington, Mass. Nailing-machine	562,703	June 23	2852	{ 692 693 694 }	{ 75 }	1966
Buffum, Herbert H., Abington, Mass., assignor to Steam Heated Horn Company, Portland, Me. Sewing-machine	554,238	Feb. 11	792	182	74	666
Buffum, Herbert H., Abington, Mass., assignor to Steam Heated Horn Company, Portland, Me. Sewing-machine	570,902	Nov. 10	879	205	77	830
Buffin, Sam. (See Outram, John B., assignor.)						
Buffin, Samuel, assignor to Indiana Manufacturing Company, Indianapolis, Ind. Threshing and separating machinery	566,494	Aug. 25	2818	687	76	1199
Bugg, Owen T., assignor to United States Export Company, Newark, N. J. Cotton-seed delinter	556,574	Mar. 17	1985	{ 463 464 }	{ 74 }	1533
Buhl Stamping Company. (See Forster, Thomas W., assignor.)						
Bühler, Adolph, Reichenhall, Germany. Mucilage-holder	565,328	Aug. 4	693	166	76	744
Bühler, Emil W. R. von. (See Kortüm, Wilhelm, assignor.)						
Buhoup, Harry C., Chicago, Ill. Car-coupling	569,954	Oct. 20	2175	{ 516 517 }	{ 77 }	437
Buhoup, Harry C., Chicago, Ill., assignor to W. McConway, Pittsburg, Pa. Car-coupling	573,961	Dec. 29	3378	{ 808 809 }	{ 77 }	1985
Buhoup, Harry C., Chicago, Ill., assignor to McConway & Torley Company, Pittsburg, Pa. Car-coupling	559,322	Apr. 28	3226	779	75	657
Buhoup, Harry C., Chicago, Ill., assignor to McConway & Torley Company, Pittsburg, Pa. Car-coupling	566,057	Aug. 18	2026	{ 491 492 }	{ 76 }	1035

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Buick, David D., Detroit, Mich. Water-closet	558,931	Apr. 28	2490	605	75	518
Buick, David D., Detroit, Mich. Water-closet	558,932	Apr. 28	2491	605	75	518
Builder's Insulating Tube Company. (See Knight, George H., assignor.)						
Builder's Insulating Tube Company. (See Knight and Blackwell, assignors.)						
Bulette, Oscar A., Seattle, Wash. Potato-cutter	563,652	July 7	693	163	76	130
Bull, Anders, Christiania, Norway. Drawing-pen	566,654	Aug. 25	3044	744	76	1244
Bull, Edward C., Edgewater, assignor to H. Bull, New York, N. Y. Game-counter	570,120	Oct. 27	2465	584	77	505
Bull, Harcourt. (See Bull, Edward C., assignor.)						
Bull, William C. (See Lintner and Bull.)						
Bull, William C., Camden, N. J., assignor to W. A. Macan and R. W. Lysle, Philadelphia, Pa. Metal band for sectional jackets or steam-pipe coverings	570,276	Oct. 27	2750	654	77	559
Bullard, James H., Springfield, Mass. Raisin-seeder	567,806	Sept. 15	1866	447	76	1657
Bullard, James H., Springfield, Mass. Bottle-seal	568,016	Sept. 22	2235	539	76	1739
Bullard, James H., Springfield, Mass. Metallic bottle-seal	569,854	Oct. 20	2001	477	77	405
Bullard, James H., Springfield, Mass. Bottle-sealing device	572,328	Dec. 1	431	101	77	1361
Bullard, James H., Springfield, Mass. Bottle-sealing device	572,329	Dec. 1	432	102	77	1361
Bullard, James H., Springfield, Mass. Bottle-seal	572,330	Dec. 1	434	102	77	1362
Bullis, Franklin H., Brooklyn, N. Y. Lock	555,360	Feb. 25	2773	649	74	1071
Bullock, Daniel, Fort Atkinson, Wis. Woodworking-machine	571,186	Nov. 10	1370	320	77	921
Bullock, Elmer J. (See Bullock, James C. and E. J.)						
Bullock, James C. and E. J., Reedsborough, Vt. Boring-machine	573,857	Dec. 29	3173	756	77	1949
Bullock, Milan C., Chicago, Ill. Steam-engine	564,000	July 14	1336	312	76	264
Bullock, Milan C., Chicago, Ill. Steam-engine	564,001	July 14	1341	312	76	265
Bullock, Milan C., Chicago, Ill. Steam-engine	571,892	Nov. 24	2599	617	77	1182
Bullock, Milan C., Chicago, Ill. Steam-engine valve	571,893	Nov. 24	2611	618	77	1185
Bullock, William H., Oswego, N. Y. Matching-machine	555,495	Mar. 3	22	6	74	1134
Bulow, Thomas L., Ridgeway, S. C. Shovel-plow	556,529	Mar. 17	1921	447	74	1521
Bultman, Frederick H., Cleveland, Ohio. Bottle	573,760	Dec. 22	3005	712	77	1902
Bumpus, Ebenezer F. (See Stierckel, John D., assignor.)						
Bunan-Varilla, Philippe, Paris, France. Dredger	568,234	Sept. 22	2640	634	76	1814
Bundren, Jesse B., and L. P. Crosby, Holston, Tenn. Lock	557,963	Apr. 7	783	186	75	147
Bundy Manufacturing Company. (See Bundy, Willard L., assignor.)						
Bundy Manufacturing Company. (See Stowell, Byron F., assignor.)						
Bundy, McGeorge, et al. (See Billings, George W., assignor.)						
Bundy, Willard L., assignor to Bundy Manufacturing Company, Binghamton, N. Y. Workman's time-recorder	553,804	Jan. 28	2336	555	74	480
Bunker, Henry L., et al. (See Kennedy, James M., assignor.)						
Bunker, Le Roy S., Webster City, Iowa. Radiator-support	573,259	Dec. 15	2059	493	77	1707
Bunker Saddle Company. (See Clark, Charles H., assignor.)						
Bunker, William I., La Grange, Ill. Floor rocking-chair	561,156	June 2	145	38	75	1394
Bunker, William I., La Grange, Ill. Gearing	562,704	June 23	2556	694	75	1967
Bunker, William I., La Grange, Ill. Platform rocking-chair	569,446	Oct. 13	1253	294	77	253
Bunker, William I., La Grange, Ill. Platform rocking-chair	569,447	Oct. 13	1254	294	77	253
Bunn, John. (See Keyes, Baker, and Bunn.)						
Bunn, John, assignor of one-half to C. J. Lewis, Binghamton, N. Y. Cigar-rolling machine	566,058	Aug. 18	2026	492	76	1035
Bunn, Thomas R., Amsterdam, N. Y. Flexible curtain	563,738	July 14	852	202	76	176
Bunnell, Morton G. (See Hinman and Bunnell.)						
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Street-sweeper	556,331	Mar. 17	1547	361	74	1450
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Reversible road-roller	558,933	Apr. 28	2492	605	75	518
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Well-making machine	560,120	May 12	1427	321	75	966
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Reversible road-roller	560,684	May 26	2487	570	75	1224
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Current-motor	571,063	Nov. 10	1149	268	77	881
Bunnell, Morton G., and A. M. Belfield, assignors to F. C. Austin, Chicago, Ill. Machine for making and repairing roads	567,292	Sept. 8	990	234	76	1478
Bunnell, Morton G., and C. G. Page, assignors to F. C. Austin, Chicago, Ill. Machine for making and repairing roads	567,293	Sept. 8	992	235	76	1478
Bunner, Osa R., Pruntytown, W. Va. Folding ironing-board	559,929	May 12	1068	237	75	896
Bunting, Charles H., Pittsburg, Pa. Machine for printing cylindrical articles	566,059	Aug. 18	2029	493	76	1036
Bunting, William, Jr., Flushing, assignor to Meyer-Sniffen Company, Limited, New York, N. Y. Self-closing cock or faucet	556,133	Mar. 10	1151	270	74	1362
Bunting, William, Jr., Flushing, assignor to Meyer-Sniffen Company, Limited, New York, N. Y. Water-closet and hinge therefor	559,478	May 5	224	50	75	726
Bunting, William, Jr., Flushing, assignor to Meyer-Sniffen Company, Limited, New York, N. Y., and Standard Manufacturing Company, Pittsburg, Pa. Means for hinging water-closet seats and covers	559,993	May 12	1182	262	75	921
Bünzli, Oscar. (See Hauser and Bünzli.)						
Burbank, Clement E., New York, N. Y. Nose-bag	558,350	Apr. 14	1471	361	75	295
Burch, James S. (See Burch, John O. and J. S.)						
Burch, John O. and J. S., Newport, Ky. Combined stovepipe-thimble and flue-stopper	560,969	May 26	2984	685	75	1318
Burchell, Norval L., Washington, D. C. Telephone	552,816	Jan. 7	600	146	74	113
Burchell, Norval L., Washington, D. C. Telephone-transmitter	567,077	Sept. 1	608	142	76	1397
Burchell, Robert T., Trenton, N. J. Hose-machine	571,261	Nov. 10	1497	352	77	945
Burchill, Thomas, assignor to Emerson & Fisher Company, Cincinnati, Ohio. Screw-sewing attachment for screw-driving machines	569,744	Oct. 20	1821	432	77	371
Burck, John H., North Hoosick, N. Y. Flexible spraying-pipe	555,147	Feb. 25	2398	569	74	1000
Burden, Henry, Troy, N. Y. Car-fender	559,436	May 5	159	34	75	712
Burdett, John B., and H. Rowntree, assignors to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Apparatus for operating elevator-doors	566,839	Sept. 1	169	40	76	1314
Burdett, John B., and H. Rowntree, assignors to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Apparatus for operating elevator-doors	566,840	Sept. 1	175	41	76	1315
Burdett-Rowntree Manufacturing Company. (See Burdett and Rowntree, assignors.)						
Burdge, Franklin P., Montezuma, Ohio. Cultivator, planter, and roller	571,827	Nov. 24	2479	588	77	1161
Burdick, George D., Madison, Wis. Crutch	563,358	July 7	214	48	76	43

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Burdick, Hiram M., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y. Cultivator	553,837	Feb. 4	29	8	74	510
Burdick, Hiram M., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y. Cultivator	557,484	Mar. 31	3564	852 853 854 855	74	1869
Burdick, John C., assignor of one-half to J. W. Handly, Union City, Tenn. Fish-trap	564,553	July 21	2289	538	76	451
Burge, William C., Bateman, Va. Churn	564,270	July 21	1825	427	76	368
Burger, Herman. (See Wirt, Green, and Burger.)						
Burger, Herman, and W. H. McFall, assignors to American Electric Meter Company, Philadelphia, Pa. Electric meter	571,036	Nov. 10	1109	259	77	873
Burger, Herman, and W. H. McFall, assignors, by mesne assignments, to American Electric Meter Company, Philadelphia, Pa. Electric meter	571,037	Nov. 10	1110	260	77	874
Burger, John, Providence, R. I., assignor to Mergenthaler Linotype Company. Linotype-machine	554,770	Feb. 18	1715	402	74	858
Burger, William, Delphos, Ohio. Discharge-valve for gas-engines	570,376	Oct. 27	2961	703	77	597
Burges, Clarence L., Worcester, Mass. Collar-creasing machine	557,766	Apr. 7	442	104	75	83
Burgess, Andrew, Buffalo, N. Y. Magazine-firearm	557,358	Mar. 31	3349	804 805 806	74	1828
Burgess, Andrew, Buffalo, N. Y. Automatic magazine-firearm	557,359	Mar. 31	3352	805 806 807	74	1828
Burgess, Andrew, Buffalo, N. Y. Magazine-firearm	557,360	Mar. 31	3356	806 807	74	1829
Burgess, Charles W., assignor to Bostwick & Burgess Manufacturing Company, Norwalk, Ohio. Inside window-blind	567,216	Sept. 8	841	199	76	1452
Burgess, Edward T., Columbus, Ohio. Hydrocarbon-burner	568,332	Sept. 29	2805	675	76	1861
Burgess, George M., assignor to Hopedale Machine Company, Hopedale, Mass. Apparatus for assembling spindle-blades and whirles	570,375	Oct. 27	2959	702	77	597
Burgess, Harry J., Brighton, England. Seat for velocipedes	564,588	July 28	2374	558	76	485
Burgess, John F., London, England. Gas-burner	574,018	Dec. 29	3482	831	77	2003
Burgess, Sidney W., Brookline, Mass., assignor to Dummer Paper Feeder Company, Portland, Me. Machine for feeding and registering sheets of paper	559,886	May 12	988	220	75	882
Burgess, T. F., et al. (See Maher, Oscar, assignor.)						
Burgey, William, Brooklyn, N. Y. Car-fender	553,050	Jan. 14	1020	250	74	205
Burgher, Charles, Newton, Mass. Protective system for buildings	567,577	Sept. 15	1482	355	76	1583
Burgher, Charles, Newton, Mass., assignor to Boston Automatic Fire Alarm Company, Portland, Me. Thermostat	573,134	Dec. 15	1846	445	77	1669
Burgin, John F., assignor of two-fifths to W. Eberhardt, Allegheny, Pa. Brake	569,486	Oct. 13	1310	309	77	264
Burging, William H., assignor of one-half to J. L. Metzger, Philadelphia, Pa. Vegetable-cutting machine	552,512	Jan. 7	18	6	74	6
Burgis, Thomas C., New York, assignor of nine-sixteenths to J. E. James, Brooklyn, and E. V. Van Duzer, Tompkinsville, N. Y. Making detergent compounds	573,438	Dec. 22	2433	-----	77	1793
Burgum, William C., assignor to Brittan, Graham & Mathes Company, Pittsburg, Pa. Detachable handle and lifter	564,469	July 21	2155	504	76	427
Burkart-Stalder, August, Berne, Switzerland. Furnace-door	561,536	June 2	852	205	75	1531
Burke, Charles G., Brooklyn, N. Y. Telegraphic relay	559,479	May 5	227	50, 51	75	726
Burke, Francis H., assignor of one-half to W. J. Overend, Peterborough, Canada. Curry-comb	560,468	May 19	2063	470	75	1129
Burke, James, Schenectady, N. Y., assignor to Thomson-Houston Electric Company, Boston, Mass. Transferring feeders	554,239	Feb. 11	794	182	74	666
Burke, James, Schenectady, N. Y., assignor to Thomson-Houston Electric Company, Boston, Mass. Electrical distribution	554,240	Feb. 11	795	182	74	666
Burke, James, Schenectady, N. Y., assignor to Thomson-Houston Electric Company, Boston, Mass. Regulating electric distribution system	555,301	Feb. 25	2671	625	74	1052
Burke, James, Newark, N. J., assignor to General Electric Company, of New York. Regulating electric motors	557,185	Mar. 31	3035	726	74	1769
Burke, John, Janesville, Wis. Saw-sharpening device	572,470	Dec. 1	669	158	77	1406
Burke, John R., Boston, Mass. Vertically-adjustable seat	569,809	Oct. 20	1926	457	77	391
Burke, Joseph J., Wilber, Nebr. Lawn-mower-knife sharpener	563,558	July 7	552	127	76	104
Burke, Ricard O., et al. (See Dyer, Isaac T., assignor.)						
Burke, Robert C., and R. P. Wessler, Brady Island, Nebr. Stock-car	565,835	Aug. 11	1616	396	76	936
Burke, Rua E., Spokane, Wash. Flower-stand and bracket therefor	573,073	Dec. 15	1735	415	77	1648
Burke, Thomas P., Pawtucket, R. I. Automatic blowing apparatus	574,188	Dec. 29	3820	912	77	2063
Burke, Walter. (See Thomson and Burke.)						
Burke, Walter P., St. Paul, Minn. Banana-crate	565,958	Aug. 18	1854	450	76	1001
Burket, George, Missouri Valley, Iowa. Wagon end-gate	567,534	Sept. 8	1396	336	76	1551
Burket, Marion T., assignor of one-half to G. Hall, Lima, Ohio. Convertible rake and fork	573,135	Dec. 15	1847	445	77	1669
Burkett, Joseph B., Lavita, Tex. Brake-lever	557,549	Apr. 7	29	8	75	8
Burkhardt, Robert W., Laramie City, Wyo., assignor to G. B. Hurd, New York, N. Y., and G. S. Porter, Glen Ridge, N. J. Hose-coupling	571,212	Nov. 10	1411	330	77	929
Burklin, Edward G., et al. (See Carleton, Thomas L., assignor.)						
Burleigh, Joseph A., Lakeport, N. H., assignor to Providence Knitting Machine Company, Providence, R. I. Needle switch mechanism for circular-knitting machines	566,294	Aug. 25	2411	592	76	1124
Burleigh, Joseph A., Laconia, N. H., assignor to Providence Knitting Machine Company, Providence, R. I. Needle switch mechanism for circular-knitting machines	566,295	Aug. 25	2413	592 593	76	1124
Burlich, Jacob H., New York, N. Y. Automatic closing device for can-spouts	564,242	July 21	1771	414	76	360
Burlich, Jacob H., New York, N. Y. Clothes-line hanger	570,377	Oct. 27	2962	703	77	598
Burlingame, Fred E., Central Falls, assignor of one-half to F. E. Shaw, Providence, R. I. Converting hides into leather	563,559	July 7	554	-----	76	104
Burlingame, Fred E., Central Falls, assignor of one-half to F. E. Shaw, Providence, R. I. Tanning liquor	563,560	July 7	555	-----	76	104
Burlingame, Fred E., Central Falls, assignor of one-half to F. E. Shaw, Providence, R. I. Leather	563,561	July 7	556	-----	76	104
Burlington Blanket Company. (See Dailey, James H., assignor.)						
Burman, Ernest S., Melbourne, Victoria. Mechanism for imparting and reversing motion	557,486	Mar. 31	3575	855	74	1870
Burmeister, Frederick, Cleveland, Ohio. Stop and waste cock	562,569	June 23	2638	639	75	1926
Burmeister, Henry C., Clafin, Kans. Header	560,057	May 12	1300	292 293	75	941
Burnap, Charles E. (See Sullivan and Burnap.)						
Burnap, Charles E., Warren, assignor of one-fourth to C. H. Parkin, Cleveland, Ohio. Bath-tub	555,560	Mar. 3	130	30	74	1154
Burner, Daniel E., and M. Shaner, Columbus, Ohio. Device for cleaning or brushing sieves	559,258	Apr. 28	3123	754	75	638
Burner, Frank V., Elko, Nev. Gate	555,427	Feb. 25	2893	688	74	1094
Burnes, Oliver A., Minneapolis, assignor to L. Johnson, Northfield, Minn. Can-opener	569,609	Oct. 20	1554	365	77	324

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Burnett, A. B. (See Tower, William G., assignor.)						
Burnett, Carter J., Gadsden, assignor of two-thirds to E. T. Slack and E. G. Thornton, Etowah county, Ala. Tool for gumming saws	562,705	June 23	2857	694	75	1967
Burnett, William H., Red Hook, N. Y. Whisk-broom attachment	567,217	Sept. 8	842	199	76	1452
Burnham, Arthur. (See Christiansen, Burnham, and Duggan.)						
Burnham, Arthur M., assignor, by mesne assignments, to C. Gifford, Gardiner, Me., and J. P. Eddy, Providence, R. I. Mop-wringer	560,189	May 19	1552	351	75	1041
Burnham, Arthur M. and H. L., Gardiner, Me. Plate lifter and turner	558,154	Apr. 14	1149	281	75	235
Burnham, Charles, assignor of one-half to L. L. Stone and T. L. Foulkes, Rochester, N. Y. Trousers-stretcher	572,155	Dec. 1	111	26	77	1299
Burnham, Cornelius A., Davidsburg, Mich. Device for twisting stay-wires in fences	568,660	Sept. 29	3416	817	76	1974
Burnham, Della R., Pullman, Wash. Gate	570,198	Oct. 27	2603	619	77	532
Burnham, Frank A., assignor to Chandler & Price Company, Cleveland, Ohio. Platen printing-press	572,405	Dec. 1	577	137	77	1388
Burnham, George, <i>et al.</i> (See McConnell, Jacob Y., assignor.)						
Burnham, George, Jr., <i>et al.</i> (See McConnell, Jacob Y., assignor.)						
Burnham, George E., Minneapolis, Kans. Can-cover	572,471	Dec. 1	670	159	77	1406
Burnham, Hattie L. (See Burnham, Arthur M. and H. L.)						
Burnham, John P., Oak Park, Ill. Telescopic joint for steam-pipes	553,509	Jan. 28	1834	435	74	387
Burnham, John P., Chicago, Ill. Expansion or telescopic joint for pipes containing fluid under pressure	571,337	Nov. 17	1628	386	77	985
Burnham, John P., assignor to T. Wilce, Chicago, Ill. Machine for forming interfitting tongues and grooves on opposite ends of flooring-boards	569,610	Oct. 20	1556	365	77	324
Burnham, John P., assignor to T. Wilce, Chicago, Ill. Machine for tonguing and grooving ends of flooring-boards	569,611	Oct. 20	1558	366	77	325
Burnham, Rollin, Storm Lake, Iowa. Car-coupling	573,858	Dec. 29	3177	757	77	1949
Burnham, William G., Boston, Mass. Wire-grooving machine	569,087	Oct. 6	639	146	77	123
Burnham, William J., Lewiston, Me., assignor to E. Dixon, Bristol, R. I. Spinning-machine	557,485	Mar. 31	3574	855	74	1870
Burns, Albert J., Fairport, N. Y. Machine for lacquering cans	570,538	Nov. 3	185	49	77	672
Burns, Albert J., and H. C. Reeves, Fairport, N. Y.; said Reeves assignor to said Burns. Dental hot-air syringe	559,511	May 5	277	66	75	735
Burns, C. H., <i>et al.</i> (See Fisk, Marston, assignor.)						
Burns, Daniel M., assignor of two-thirds to T. G. White, Humboldt, Iowa. Hammer	561,072	May 26	3145	726	75	1349
Burns, Edward W., Boston, Mass. Automatic lock-cabinet	566,135	Aug. 18	2163	527	76	1059
Burns, Frank, Westfield, N. Y. Toy arm	560,570	May 19	2226	508 509	75	1159
Burns, George F. (See Jewell, Frank, assignor.)						
Burns, Henry, Charlevoix, Mich. Check-valve	553,390	Jan. 21	1629	388 389	74	333
Burns, John, Minneapolis, Minn. Storm-window fastener	561,962	June 16	1604	390	75	1718
Burns, John B., Camden, N. J. Spring-gun	568,560	Sept. 29	3211	774	76	1935
Burns, Joseph H., Cleveland, Ohio. Pastry-rack	563,562	July 7	557	127	76	105
Burns, Michael F. (See Okun, Moses S., assignor.)						
Burns, Robert D. (See Bailey and Burns.)						
Burns, Robert L., Trenton, Tex. Combined quilting frame and table	553,184	Jan. 14	1269	307	74	252
Burns, William H., Worcester, Mass. Waist	565,959	Aug. 18	1855	451	76	1001
Burns, Willis B., Syracuse, N. Y. Car-coupling	552,953	Jan. 14	868	211	74	177
Burnshire, John J., Dayton, Va. Vehicle	566,374	Aug. 25	2578	629	76	1155
Burpee, Frank H., <i>et al.</i> (See Reynolds, John H., assignor.)						
Burr, Charles A., and H. P. Ewell, Rochester, Mich. Device for tying mail-packages	561,256	June 2	300	76	75	1426
Burr, James B., Commack, N. Y. Saw-set	565,722	Aug. 11	1425	347	76	901
Burr, Melbourne C. (See Wernicke and Burr.)						
Burr, Osmer S., <i>et al.</i> , trustees. (See Cazin, Francis M. F., assignor.)						
Burrage, William R., Brooklyn, N. Y. Letter or bill file	566,375	Aug. 25	2579	630	76	1155
Burrell & Co., D. H. (See Fairchild, Newell N., assignor.)						
Burrell & Co., D. H. (See Hoyt, Matthew L., assignor.)						
Burrell & Co., D. H. (See Lundstrom, Carl J., assignor.)						
Burress, Henry W., Boston, Mass. Check-hook	556,661	Mar. 17	2118	494	74	1558
Burridge, E. H. (See Davis, John B., assignor.)						
Burridge, Lee S. (See Marshman and Burridge.)						
Burridge, Lee S., and N. R. Marshman, New York, N. Y. Adding and recording machine	553,331	Jan. 21	1533	366 367 367	74	314
Burridge, Lee S., and N. R. Marshman, New York, N. Y. Cash-register	574,302	Dec. 29	4032	957 958	77	2103
Burrill, Harry L., St. Paul, Minn. Car-seal	557,964	Apr. 7	785	187	75	148
Burrill, Harvey D. (See Sanderson, William, assignor.)						
Burroughs, John J., Houston, Tex. Button	564,324	July 21	1912	452	76	383
Burrowes, Edward T. (See Smith, Robert P., assignor.)						
Burrowes, Edward T., Portland, Me. Insect-destroyer	552,703	Jan. 7	355	93	74	69
Burrowes, Edward T., Portland, Me. Curtain-guide	564,682	July 28	2521	596	76	513
Burrows, Charles, Schenectady, N. Y. Ruling-machine	568,235	Sept. 22	2641	634	76	1815
Burrows, Charles, Schenectady, N. Y. Ruling-machine	568,236	Sept. 22	2649	635	76	1816
Burrows, George H., Somerville, Mass. Vapor-gas apparatus	562,214	June 16	2032	491	75	1797
Burrows, George H., Somerville, Mass. Blower for carbureters	563,563	July 7	557	127 128	76	105
Burrows, George L., Jr., Saginaw, Mich. Gate-lock	558,547	Apr. 21	1821	443	75	378
Burrows, Taylor. (See Radcliffe and Burrows.)						
Burrows, William E. (See Pratt, Timothy D., assignor.)						
Bursch, Frederick J. W. (See Bursch, Gustavus A., assignor.)						
Bursch, Gustavus A., assignor to F. J. W. Bursch, Brooklyn, N. Y. Railway-switch	569,612	Oct. 20	1561	366	77	326
Burson, William W., Chicago, Ill. Grain-binder	564,589	July 28	2374	559	76	485
Burson, William W., Chicago, Ill. Grain-binder	567,847	Sept. 15	1943	465 466	76	1672
Burster, Henry, Cincinnati, Ohio. Ground-base for iron fences	567,332	Sept. 8	1072	256	76	1493
Burt, Edward W., Salisbury, N. C. Ticket-holder	558,155	Apr. 14	1150	281	75	235
Burt, Henry J., Liberty, Ind. Gas-generator	563,219	June 30	3808	913	75	2170
Burt, Merritt, Jacksonville, Fla. Pumping apparatus	560,190	May 19	1554	352	75	1041
Burt, William E., Enosburg Falls, Vt. Sap-gathering tank	559,358	May 5	15	5	75	683
Burton, Augustus G., Chicago, Ill. Safe-lock	553,051	Jan. 14	1021	250 251	74	206
Burton, Augustus G., Chicago, Ill. Safe	564,002	July 14	1345	313	76	265
Burton, Charles, assignor to C. H. Kraft, Salt Lake City, Utah, and F. L. Shoch, Philadelphia, Pa. Coin-controlled vending-machine	572,523	Dec. 8	764	181 182	77	1439

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Burton, Charles C., assignor of four-fifths to J. C. Des Granges, Pittsburg, Pa., L. E. Holden, Beloit, Wis., G. M. Ludlow, Chicago, Ill., and C. G. Hussey, Allegheny, Pa. Equalizing-gear.....	571,187	Nov. 10	1371	{ 320 321 }	{ 77	923
Burton, Charles S., Oak Park, Ill. Locomotive smoke-stack.....	570,083	Oct. 27	2400	569	77	494
Burton, George D., Boston, Mass. Apparatus for electrically working and welding copper.	558,480	Apr. 21	1716	415	75	358
Burton, George D., Boston, Mass., assignor of one-half to W. S. Silver, Orange, N. J. Electric underground-trolley railway.....	556,321	Mar. 10	1522	355	74	1431
Burton, George D., Boston, assignor to J. J. Moore, Springfield, Mass., J. S. McCabe, and W. A. Byrne, Auburn, N. Y. Electric dyeing.....	557,324	Mar. 31	3292	790	74	1815
Burton, George D., Boston, assignor to J. J. Moore, Springfield, Mass., J. S. McCabe, and W. A. Byrne, Auburn, N. Y. Art of and apparatus for electrodyeing.....	557,325	Mar. 31	3294	790	74	1816
Burton, George D., Boston, assignor to J. J. Moore, Springfield, Mass., J. S. McCabe, and W. A. Byrne, Auburn, N. Y. Art of and apparatus for electric dyeing and shrinking.....	557,326	Mar. 31	3295	790	74	1816
Burton, George W., trustee. (See Espersen, Arthur F., assignor.)						
Burton Handle Company. (See Hick, Robert H., assignor.)						
Burton, Lewis E., Pittsburg, Pa. Copy-holder.....	556,575	Mar. 17	1988	465	74	1534
Burton, Lucy M., et al. (See Rose, Preston B., assignor.)						
Burton, Matthew, and H. Eberhard, Chicago, Ill., assignors to Gilbert & Bennett Manufacturing Company, Georgetown, Conn. Animal-trap.....	554,388	Feb. 11	1045	243	74	714
Burrucker, Frederick J., St. Paul, Minn. Windmill.....	562,374	June 23	2304	560	75	1863
Bury, Harry W., assignor of one-half to C. Amos and N. S. Moore, Frankfort, Ind. Skirt-distender.....	574,131	Dec. 29	3690	879	77	2041
Bush, Charles M., Bristol, Conn. Electrically-operated means for controlling valves.....	558,256	Apr. 14	1330	322	75	267
Bush, Edmund, Leeds, England. Machine for varnishing or coating paper.....	560,022	May 12	1238	277	75	929
Bush, Frank A. (See Robinson, Willis E., assignor.)						
Bush, Henry, Columbus, Ohio. Fire-extinguisher.....	574,019	Dec. 29	3484	832	77	2003
Bush, Hiram T., assignor to Ideal Manufacturing Company, Detroit, Mich. Valve.....	555,759	Mar. 3	459	109	74	1212
Bush, Martin L., Lawrence, Mass. Safety-valve attachment.....	553,897	Feb. 4	167	35, 36	74	536
Bush, William H., assignor to L. Klein, Danville, Ill., and I. Stern, New York, N. Y. Hair-clipping machine.....	556,399	Mar. 17	1669	389	74	1474
Bush, William J., Battle Creek, Nebr., assignor of one-half to J. Retzlaff, Canton, Kans. Holder for use in cleaning cream-separator disks.....	552,817	Jan. 7	603	146	74	113
Bushby, William R., et al. (See Page, William C., assignor.)						
Bushey, Nelson C. (See Rioux, Bushey, and Byron.)						
Bushnell Manufacturing Company. (See Dryer, George W., assignor.)						
Bushong, Franklin F. (See Bushong, Milton M. and F. F.)						
Bushong, George W. (See Boothman and Bushong.)						
Bushong, Milton M. and F. F., Pawling, Pa. Brick-kiln.....	562,706	June 23	2859	695	75	1967
Busiel, Frank E., Laconia, N. H. Knitting stockings.....	563,739	July 14	853	{ 202 203 }	{ 76	176
Busiel, Frank E., Laconia, N. H. Knitting stockings.....	563,740	July 14	854	203	76	176
Busse, Francis T., Wallingford, Conn. Device for removing feathers from fowls.....	554,050	Feb. 4	151	99	74	587
Busse, William J., assignor of one-half to P. F. Quinn, Chicago, Ill. Ball-bearing for cycles, &c.....	567,732	Sept. 15	1740	417	76	1633
Bussell, Burwell W., Walla Walla, Wash. Calf-weaner.....	552,685	Jan. 7	328	87	74	64
Buswell, Columbus, Camden, Me. Dust-excluder for vehicle-hubs.....	571,990	Nov. 24	2773	654	77	1217
Butcher, Hugh D., and J. M. John, Weston, W. Va. Gate.....	557,550	Apr. 7	30	9	75	8
Butcher, James M., Denver, Colo. Bill-file.....	564,172	July 14	1662	388	76	325
Butcher, James M., assignor of one-half to A. Hamilton, Denver, Colo. Fly-trap.....	568,322	Sept. 22	2744	670	76	1842
Butcher, Joseph J., New York, N. Y. Steam-boiler.....	557,524	Mar. 31	3644	873	74	1882
Butikofer, Eduard, Biel, Switzerland. Speed and distance indicator.....	558,351	Apr. 14	1472	361	75	296
Butin, Francis. (See Nutt and Butin.)						
Butler, Braxton R., et al. (See Smith, George I., assignor.)						
Butler, Charles E., New York, N. Y. Game apparatus.....	567,218	Sept. 8	843	200	76	1453
Butler, Edward S., New Rochelle, N. Y. Globe and chimney support.....	554,051	Feb. 4	452	100	74	587
Butler, Edwin, New York, N. Y. Telegraph-relay.....	561,653	June 9	1053	254	75	1594
Butler, Florence H., Cincinnati, Ohio. Duplicate-whist board.....	568,600	Sept. 29	3302	792	76	1952
Butler, Frederick W., assignor to E. H. Merrill Company, Akron, Ohio. Corroding-pot.....	564,183	July 21	1684	394	76	342
Butler, James H., Columbia Heights, Ill. Piano sounding-board.....	570,153	Oct. 27	2522	598	77	516
Butler, John A., assignor to Implement Dealers Manufacturing Company, Border City, N. Y. Swing.....	563,653	July 7	694	163	76	131
Butler, John A., assignor of one-half to S. Robinson, Southington, Conn. Bottle and stopper.....	567,376	Sept. 8	1150	276	76	1506
Butler, Louis A. (See Merrill and Butler.)						
Butler, Louis A., et al. (See Freeman, Charles M., assignor.)						
Butler, Maguler, assignor to G. W. Palmer, Rochester, N. Y. Lubricator.....	564,503	July 21	2202	{ 516 517 }	{ 76	436
Butler, Redden, et al. (See Smith, George I., assignor.)						
Butler, Thomas J., Newark, N. J. Governor for motors.....	568,517	Sept. 29	3143	758	76	1922
Butlin, William H. (See Frost and Butlin.)						
Butterfield, Alvor, assignor of one-half to L. N. Howard, Indianapolis, Ind. Wrench.....	562,117	June 16	1875	454	75	1767
Butterfield, Alvor, assignor to M. W. Baker, Indianapolis, Ind. Farm-gate.....	569,855	Oct. 20	2002	477	77	405
Butterfield, David N., New Boston, N. H. Stone-wagon.....	555,673	Mar. 3	331	76	74	1189
Butterfield, Finley R., Concord, N. H. Bung.....	567,563	Sept. 8	1444	347	76	1560
Butterfield, Frank A., Detroit, Mich. Means for attaching and detaching electric lamps.....	556,959	Mar. 24	2628	617	74	1670
Butterfield, George F., Stoneham, Mass. Bath-tub.....	565,836	Aug. 11	1617	396	76	937
Butterfield, George F., Stoneham, Mass. Apparatus for vulcanizing rubber soles to shoes.....	574,238	Dec. 29	3933	{ 935 936 }	{ 77	2084
Butterfield, George F., Stoneham, Mass. Vulcanizing rubber soles to shoes.....	574,239	Dec. 29	3935	936	77	2084
Butterfield, Thomas F., De Witt, Iowa. Steam-generator and tank-heater.....	559,259	Apr. 28	3124	755	75	638
Butterworth, Frank L., Newark, N. J. Flange for shaping hat-brims.....	559,930	May 12	1069	238	75	897
Butterworth, Frank L., Newark, N. J., assignor of one-half to M. A. Cuming, Brooklyn, N. Y. Hatter's shackle.....	565,104	Aug. 4	265	63	76	666
Butterworth, Harry W., Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company, of Pennsylvania. Automatic clamp for cloth-stretching machines.....	571,105	Nov. 10	1243	289	77	897
Butterworth, Harry W., Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company. Automatic clamp for textile machinery.....	571,508	Nov. 17	1018	458	77	1038
Butterworth, John. (See Butterworth, William H. and J.)						
Butterworth, William H. and J., Trenton, N. J. Threshing-machine.....	574,303	Dec. 29	4035	959	77	2103
Buttivant, Archibald G. (See Gersant and Buttivant.)						
Button, Charles R. (See Button, Theodore E., assignor.)						
Button, John E. (See Kloninger and Button.)						
Button, Theodore E., Schenectady, assignor of one-half to C. R. Button, Waterford, N. Y. Boiler.....	567,940	Sept. 15	2088	503	76	1700

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Butts, Arthur C., <i>et al.</i> (See Storm, Alfred W., assignor.)						
Butts, Daniel G. (See Schuchat and Butts.)						
Butts, Edward C., Belleville, N. J. Stuffing-box for pumps, &c.	570,726	Nov. 3	563	130	77	742
Butts, Elias H., Oriental, assignor of one-half to W. H. Lewis, Merritt, N. C. Baling-press.	570,865	Nov. 3	809	185	77	789
Butts, John T., Washington, D. C. Incubator	559,260	Apr. 28	3125	755	75	638
Butts, John T., and L. C. Griggs, Washington, D. C. Lunch-satchel	560,469	May 19	2063	471	75	1130
Butzer, Albert, Deer Park, Wash. Extension-bedstead	573,390	Dec. 15	2303	550 } 551 }	77	1751
Butzon, Joseph, Philadelphia, Pa. Advertising device	552,605	Jan. 7	175	48	74	35
Buxbaum, Karl, assignor to W. S. and M. H. Gans and J. H. Andreas, Philadelphia, Pa. Binding attachment for sewing-machines	570,121	Oct. 27	2469	584	77	506
Buxton, Frank E., Worcester, Mass. Rail-bond	564,968	Aug. 4	12	3	76	619
Buxton, Frederick. (See Gemmell and Buxton.)						
Buxton, Henry L., Milwaukee, Wis. Match	554,651	Feb. 18	1513	355	74	818
Buzzard, Amos. (See Dietz, Uriah, assignor.)						
Bye, Martin, assignor to J. C. Speirs, Worcester, Mass. Magazine-pistol	562,455	June 23	2438	592 } 593 }	75	1889
Byer, David S., Roadside, Pa. Attachment for calipers	558,773	Apr. 21	2210	532	75	448
Byerly, Edgar H., Knightstown, Ind. Hat-conformer	560,191	May 19	1555	353	75	1041
Byers, David I., Hartwell, Ohio. Reversibly-supporting writing-tablet	569,169	Oct. 13	777	182	77	164
Bygrave, Alice L., London, England. Cycling-skirt	555,428	Feb. 25	2894	689	74	1094
Bynon, William, Audenreid, Pa. Drilling-machine	573,808	Dec. 22	3081	732	77	1916
Byram, Henry G. (See Crahan, William, assignor.)						
Byrd, Walter M., Mount Gilead, assignor of one-half to W. D. and A. D. Clark, Montgomery county, N. C. Shaft-hanger	560,775	May 26	2645	607	75	1254
Byrne, Charles, London, England. Velocipede	556,733	Mar. 24	2240	524	74	1598
Byrne, Edward J., assignor to C. M. Kemp, Baltimore, Md. Apparatus for producing vacuum	564,554	July 21	2292	538 } 539 }	76	452
Byrne, Luke G. (See Millar, George G. J., assignor.)						
Byrne, Walter A., <i>et al.</i> (See Burton, George D., assignor.)						
Byrne, William A., Boston, Mass., assignor to Wm. Knabe & Co. Manufacturing Company, Baltimore, Md. Piano	571,106	Nov. 10	1246	289 } 290 }	77	898
Byrnes, Thomas C. (See Siron, Ernest, assignor.)						
Byron, Napoleon L. (See Rioux, Bushey, and Byron.)						
C. & B. Cottrell & Sons Company. (See Cottrell, Charles P., assignor.)						
C. & C. Electric Company. (See Fay, Thomas J., assignor.)						
C. & C. Electric Company. (See Welles, George A., Jr., assignor.)						
C. F. Zimmermann Company. (See Dolge, Rudolf, assignor.)						
C. F. Zimmermann Company. (See Gery and Dolge, assignors.)						
C. F. Zimmermann Company. (See Roth, Dolge, and Melcher, assignors.)						
C. H. Olson Gold Dredger Company. (See Olson, Christopher H., assignor.)						
C. T. Ham Manufacturing Company. (See Bergener, Charles, assignor.)						
C. V. Henkel Company. (See Henkel, Charles V., assignor.)						
C. W. Hunt Company. (See Hunt and King, assignors.)						
Cabaret, Paul E., New York, N. Y. Hinge	563,133	June 30	3666	877	75	2143
Cabell, Milton S., Quincy, Ill. Flagstaff	556,614	Mar. 17	2052	480	74	1545
Cabell, Milton S., Quincy, Ill. Feed-water purifier	560,685	May 26	2490	571	75	1224
Cabezola, Eusebio F., Trenton, N. J. Apparatus for insulating magnet-wire	563,564	July 7	559	128 } 129 }	76	105
Cabiati, Emilio, Milan, Italy. Dyeing with indigo	559,163	Apr. 28	2935		75	603
Cable, Daniel J., assignor of one-half to C. J. Petgen, Pittsburg, and D. S. Scott, Fitchburg, Pa. Combination-lock	573,136	Dec. 15	1850	446	77	1669
Cabot, John W., Johnstown, and S. W. Vaughen, Coopersdale, Pa. Manufacturing manganese metal	556,457	Mar. 17	1783		74	1496
Cade, John T., Arcola, N. J. Interlocking switch and signal machine	568,333	Sept. 29	2807	675	76	1862
Cadman, Alexander W. (See Fisher, Daniel A., assignor.)						
Cadman, Isaac P., Beloit, Wis. Cloth winding and measuring machine	558,895	Apr. 21	2419	589	75	488
Cadmus, Laura B., Somerville, N. J. Garment-stretcher	567,733	Sept. 15	1741	417	76	1634
Cadwalader, Kinsey. (See Walters and Cadwalader.)						
Cadwalader, George R., Geneva, N. Y. Reed-supporter for clarinets	555,561	Mar. 3	131	30	74	1154
Cadwell, Edward L., assignor of one-half to W. H. Cadwell, Lansing, Mich. Basket	562,780	June 23	2996	725	75	1994
Cadwell, Jason R., Chicago, Ill. Lawn-sprinkler	563,220	June 30	3810	913	75	2170
Cadwell, William H. (See Cadwell, Edward L., assignor.)						
Cadwgan, Thomas C., Anderson, Ind., assignor of one-half to O. S. Kelly Company, Springfield, Ohio. Feeding device for paper-stock	561,484	June 2	747	183	75	1511
Cady, Joel E., Jr., Natoma, Kans., assignor of one-half to L. E. Edson, Paw Paw, Mich. Car-coupling	557,525	Mar. 31	3647	874	74	1883
Caemmerer, Erasmus, and F. G. Mayer, Chicago, Ill. Dynamo-electric machine	565,529	Aug. 11	1077	258 } 259 }	76	835
Caemmerer, Erasmus, and F. G. Mayer, Chicago, Ill. Dynamo-electric machine	565,530	Aug. 11	1079	259	76	835
Caesar, Peter J., Duluth, Minn., assignor of one-half to W. D. Kuhn, Ashland, Wis. Combined cigar cutter and lighter	567,578	Sept. 15	1485	356	76	1583
Cafferty, Ridner P., Jr., New York, N. Y. Horse-brush	559,673	May 5	546	127	75	786
Cahill, Henry D., assignor of one-third to J. E. McCafferty, Boston, Mass. Bicycle-carrier	573,502	Dec. 22	2543	602	77	1813
Cahill, Thaddeus, New York, N. Y. Pianoforte-action	554,108	Feb. 4	565	126 } 127 }	74	608
Cahill, Thaddeus, New York, N. Y. Pianoforte-action	554,109	Feb. 4	569	128 } 129 } 130 }	74	608
Cahill, Thaddeus, New York, N. Y. Type-writing machine	566,442	Aug. 25	2712	661 } 662 } 663 } 664 } 665 }	76	1181
Cahill, Thomas J., Chicago, Ill. Plumber's ladle	556,085	Mar. 10	1066	254	74	1346
Cahill, Thomas J., Chicago, assignor to L. A. Cornelius, Cook county, Ill. Device for re-pairing spuds of sanitary closet-bowls	557,186	Mar. 31	3037	727	74	1770
Cahoon, Benjamin G., Marshfield, Mass. Reefing device	559,843	May 12	900	200	75	866
Cahoon, James B., Corning, N. Y. Sash fastener and support	573,439	Dec. 22	2433	577	77	1793
Cain, Charles E. (See Jacobson and Cain.)						
Cain, Henry J., Lancaster, Pa. Steady-pin for watches	559,512	May 5	278	66	75	736
Cain, John J., Bayonne, N. J. Sectional boiler	561,257	June 2	301	77	75	1426
Cain, Thomas W., Salamanca, N. Y. Concave band sawing-machine	563,654	July 7	695	164	76	131

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Cain, William J. (See Caplinger, Joseph E., assignor.)						
Caird, Edward B., and T. J. Rayner, London, England. Air-cooled condenser	563,655	July 7	696	164	76	131
Calahart, Philip A., assignor to New England Water Pipe Company, Wakefield, Mass. Lined pipe						
Calder, Charles B., Detroit, Mich. Boiler-flue cleaner	562,354	June 16	2273	551	75	1841
Calderwood, George G., Biddeford, Me. Stovepipe attachment	563,707	July 7	794	190	76	149
Caldwell, Alfred, Providence, R. I. Gas-tube tip	555,562	Mar. 3	132	30	74	1154
Caldwell, Edward P., Minneapolis, Minn. Track-jack	566,136	Aug. 18	2165	527	76	1060
Caldwell, Emory. (See Caldwell, James and E.)						
Caldwell, Frank H., Dayton, Ky., assignor of one-half to H. Palmer, Cincinnati, Ohio. Cloth-cutting machine	569,574	Oct. 13	1488	{ 350 351 }	{ 77 77 }	297
Caldwell, Homer M., Worcester, assignor to M. E. Johnson, Fitchburg, Mass. Revolver	563,741	July 14	856	203	76	176
Caldwell, James and E., Auburn, N. Y. Turbine water-wheel	561,963	June 16	1605	390	75	1719
Caldwell, James D., Princeton, N. C. Panel fence	569,613	Oct. 20	1563	366	77	326
Caldwell, Joseph P. (See Easter, Clay H., assignor.)						
Caldwell, Robert L., Cleveland, Ohio. Compound rail	561,372	June 2	547	138	75	1475
Caldwell, William T. (See Westburg, Albert J., assignor.)						
Caledonia, Pasqualina. (See Bozano, Stefano, assignor.)						
Calef, Robert S., Boston, Mass. Heating apparatus	556,044	Mar. 10	984	236	74	1332
Calendoli, Vincenzo, assignor of one-half to A. Savarese, Paris, France. Simultaneous type-setting machine	553,205	Jan. 14	1309	317	74	260
Calhoun, John C. (See Connell and Calhoun.)						
Calhoun, Daniel I., assignor to Calhoun Excavator Company, Chicago, Ill. Excavating machinery	552,745	Jan. 7	439	{ 110 111 112 }	{ 74 74 74 }	84
Calhoun Excavator Company. (See Calhoun, Daniel I., assignor.)						
Calhoun, George C., et al. (See Bennum, George W., assignor.)						
California Wrench Company. (See Murphey, William L., assignor.)						
Calisch, Julius C., et al. (See Kublewind, Cornelius, assignor.)						
Calkins, Almon H., Chicago, Ill. Oil-burner	559,994	May 12	1183	263	75	921
Calkins, James S., Hastings, assignor of one-half to S. T. Rose, Kalamazoo, Mich. Exhaust-steam water-heater	563,840	July 14	1045	246	76	210
Callahan, Cornelius, Canton, Mass. Hose-nozzle	570,903	Nov. 10	881	205	77	831
Callahan, Michael. (See Lobee, Bart, assignor.)						
Callantine, Joseph, Peru, Ind. Car-coupling	567,678	Sept. 15	1649	397	76	1616
Callender, Romaine, Brantford, Canada. Automatic telephone-exchange system	573,859	Dec. 29	3178	{ 757 758 759 }	{ 77 77 77 }	1949
Calleson, Amos, Brooklyn, N. Y. Press for working sheet metal	561,090	June 2	24	6, 7	75	1372
Calvert, Charles A., assignor, by mesne assignments, to George L. Squier Manufacturing Company, Buffalo, N. Y. Cane-mill	553,607	Jan. 28	2014	477	74	420
Calvert, Thomas E., Lincoln, Neb. Railway-switch stand	568,938	Oct. 6	375	85	77	73
Cambridge City Punch, Shear, and Roll Company. (See Guild, George, assignor.)						
Cameron, Archibald. (See Boggs and Cameron.)						
Cameron, Herbert G., London, England. Ship's steering-gear	564,471	July 21	2157	505	76	428
Camillo, Pozzo, New York, N. Y. Necktie	552,818	Jan. 7	604	147	74	113
Caminetti, Anthony B., San Francisco, assignor of one-half to E. E. Caminetti, Jackson, Cal. Door-fastener	553,496	Jan. 21	1810	430	74	366
Caminetti, Ella E. (See Caminetti, Anthony B., assignor.)						
Camp, Horace B., Akron, Ohio. Track	555,801	Mar. 3	521	126	74	1225
Camp, Joseph P., trustee. (See Webster, Daniel W., assignor.)						
Camp, Samuel H. (See Gregg, Charles W., assignor.)						
Camp, Walter M. (See Fisk and Camp.)						
Campbell, Ammi B., Lowell, assignor to Meteor Despatch Company, Boston, Mass. Terminal for pneumatic-despatch tubes	563,359	July 7	215	48	76	44
Campbell, Andrew C., assignor to E. J. Manville Machine Company, Waterbury, Conn. Machine for making rivets or the like	569,406	Oct. 13	1191	281	77	242
Campbell, Andrew C., Waterbury, Conn., assignor to H. H. and G. O. Jenkins, Whitman, Mass. Machine for manufacturing shoe-shanks	554,652	Feb. 18	1514	{ 355 356 357 358 359 }	{ 74 74 74 74 74 }	818
Campbell, Archibald, Chicago, Ill. Steam pumping-engine	560,608	May 19	2295	526	75	1172
Campbell, Benjamin L., assignor of one-half to L. R. Holloway, St. Louis, Mo. Cutting-blade	556,615	Mar. 17	2053	480	74	1545
Campbell, Channing B. (See Sheppey and Moore, assignors.)						
Campbell, Charles D., Louisville, Ky. Apparatus for ordering tobacco	556,916	Mar. 24	2560	603	74	1657
Campbell & Clute et al. (See Vermilyea, Eugene, assignor.)						
Campbell, Cydnor B., assignor of one-half to W. T. Biddison, Glouster, Ohio. Monkey-wrench	566,655	Aug. 25	3045	744	76	1244
Campbell, Daniel J., New York, N. Y., assignor to American Tobacco Company, Newark, N. J. Cigarette-cutting machine	561,964	June 16	1606	390	75	1719
Campbell, Edward. (See Bowles, Campbell, and Reder.)						
Campbell, Edward J., and P. J. Haggerty, Brooklyn, N. Y. Bookbinder's rasping-machine	557,965	Apr. 7	786	187	75	148
Campbell, Elgreen P., and G. E. Schlesser, Nahma, Mich. Fly-escape	556,251	Mar. 10	1367	321	74	1401
Campbell, George W., Kenton, Ohio. Corn-planter	553,728	Jan. 28	2224	527	74	459
Campbell, Given, Jr. (See Sluder, Campbell, and Brown.)						
Campbell, Harry H. (See Aiken, Wood, and Campbell.) (Reissue.)						
Campbell, Harry H., Harrisburg, Pa. Charging apparatus	567,848	Sept. 15	1945	466	76	1672
Campbell, Howard and W. H., assignors to Gaar, Scott & Company, Richmond, Ind. Threshing-machine	567,117	Sept. 1	677	158	76	1410
Campbell, Hugh M., assignor of one-half to W. Heston, Homestead, Pa. Railway-rail joint. Campbell, Jeremiah. (See Kelley, Daniel H., assignor.)	558,036	Apr. 14	950	233	75	196
Campbell, Jeremiah, Chelsea, Mass. Self-registering scale	558,630	Apr. 21	1962	{ 476 477 }	{ 75 75 }	403
Campbell, Jeremiah, Chelsea, Mass. Steam-shovel	558,631	Apr. 21	1965	477	75	404
Campbell, Jeremiah, Chelsea, Mass. Steam-shovel	573,204	Dec. 15	1968	474	77	1691
Campbell, Jeremiah, and D. H. Kelley, Chelsea, Mass. Steam-shovel	558,896	Apr. 21	2421	590	75	489
Campbell, John G. (See MacIachan, John W., assignor.)						
Campbell, John P., Spokane, Wash., assignor of one-half to P. Ryan, Kalispel, Mont. Combination pepper and salt box	563,012	June 30	3437	827	75	2101
Campbell, John S., Paris, France, assignor to Dentenax Company, Limited, London, England. Artificial teeth	571,644	Nov. 17	2144	515	77	1079

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Campbell, Julius R., Litchfield, Ill. Automatic car-holder for hoisting-cages.....	569,999	Oct. 27	2250	534	77	463
Campbell, Laurence E., Paxton, Ill. Combined creamer and refrigerator.....	562,570	June 23	2639	639	75	1927
Campbell, Lawrence S., and I. Woodring, Waverly, Iowa. Corn-husking machine.....	552,606	Jan. 7	176	49, 50	74	35
Campbell Machine Company. (See Fowler and Warren, assignors.)						
Campbell, Malcolm, Woonsocket, R. I. Differential motion for driving bobbins of spinning-frames.....	553,667	Jan. 28	2113	500	74	437
Campbell Printing Press and Manufacturing Company. (See Hoyt, James G., assignor.)						
Campbell Printing Press and Manufacturing Company. (See Huson, Winfield S., assignor.)						
Campbell Printing Press and Manufacturing Company. (See Southgate, Louis W., assignor.)						
Campbell Printing Press and Manufacturing Company. (See Stonemetz, John H., assignor.)						
Campbell Printing Press and Manufacturing Company. (See Wood, Henry A. W., assignor.)						
Campbell Printing Press and Manufacturing Company. (See Yates and Huson, assignors.)						
Campbell, Richard. (See Railton and Campbell.)						
Campbell, Rolla W., Fort Recovery, Ohio. Mold for cisterns, reservoirs, &c.....	559,931	May 12	1072	{ 238 239 }	{ 75	897
Campbell, Singleton, New Waverly, Tex. Disk plow.....	553,510	Jan. 28	1836	435	74	388
Campbell, Sumner B., assignor to Textile Manufacturing Company, Westfield, Mass. Coffee-handle.....	565,403	Aug. 4	818	193	76	768
Campbell, Thomas J., Austin, Tex. Door-check.....	561,373	June 2	548	138	75	1476
Campbell, William, assignor of one-third to F. Todd, Houtzdale, Pa. Rail-chair.....	571,064	Nov. 10	1151	269	77	882
Campbell, William A., Columbus, and S. Kiefer, Portsmouth, Ohio, assignors to W. S. Sackett. String-holder.....	563,013	June 30	3439	827	75	2101
Campbell, William H. (See Campbell, Howard and W. H.)						
Campbell, William H., Ortonville, Minn. Fire-escape.....	553,299	Jan. 21	1481	356	74	306
Campbell, William H., Albion, N. Y. Wire-fence machine.....	567,123	Sept. 8	698	162	76	1426
Campbell, William M., Chelsea, Mass. Propeller-shaft bearing.....	563,134	June 30	3667	878	75	2143
Campo, Ysidro del, El Paso, Tex. Combined cigar-clipper and match-box.....	566,137	Aug. 18	2167	527	76	1060
Canada, Adolphus G., Memphis, Tenn. Non-refillable bottle.....	573,566	Dec. 22	2650	630	77	1833
Canadian Copper Company. (See Browne, David H., assignor.)						
Canaday, Joel H., Elsmore, Kans. Car-coupling.....	558,037	Apr. 14	951	234	75	196
Canales, Frank W., assignor to himself and E. H. Waterhouse, Portland, Me. Trolley.....	567,118	Sept. 1	679	158	76	1411
Canan, Harry M., Altoona, Pa. Mucilage-bottle.....	572,524	Dec. 8	767	182	77	1439
Canby, Joseph C., West Pittston, Pa. Draft-regulating apparatus for locomotives.....	564,470	July 21	2156	{ 504 505 }	{ 76	428
Candee, Willard L., Brooklyn, N. Y. Cloth-measuring machine.....	565,603	Aug. 11	1203	{ 289 290 }	{ 76	858
Canet, Jean B. G. A., Paris, France. Gun-carriage.....	557,487	Mar. 31	3577	{ 856 857 }	{ 74	1871
Canfield, Charles E., Philadelphia, Pa. Car-truck.....	562,884	June 30	3207	776	75	2052
Canfield, Charles F. (See Macevoy, Peter C., assignor.)						
Canfield, Felix P., Boston, assignor of one-half to C. W. Stetson, Newton, Mass. Friction-clutch.....	560,470	May 19	2065	471	75	1130
Canfield, Henry O. (See Freshour, Henry C., assignor.)						
Canfield, Mortimer M., Seattle, Wash. Device for operating windows.....	570,841	Nov. 3	769	176	77	782
Canfield, Philip B., assignor of one-half to G. S. Edwards, Cortland, N. Y. Folding crate.....	552,985	Jan. 14	920	223	74	186
Canfield, Robert H., Corning, N. Y. Locking mechanism for switch-levers.....	573,567	Dec. 22	2651	630	77	1834
Cann, J. Boardman, et al. (See Curtis, Frank G., assignor.)						
Cannon, John B., West Suffield, Conn. Bog-cutter.....	569,170	Oct. 13	779	182	77	164
Cannon, Warren B., assignor to American Washboard Company, Cleveland, Ohio. Washboard.....	557,966	Apr. 7	728	188	75	148
Cannstatter Misch and Knetmaschinen-Fabrik Werner & Pfeleiderer. (See Werner and Pfeleiderer, assignors.)						
Canny, David R., Chillicothe, assignor to J. M. Waddel, Greenfield, Ohio. Washboard.....	557,187	Mar. 31	3038	727	74	1770
Canny, David R., assignor to J. M. Waddel, Greenfield, Ohio. Wood rim for wheels.....	561,157	June 2	146	38	75	1394
Canon, Amos M., and W. G. Moorehead, Newark, N. J. Hot-water radiator.....	560,257	May 19	1687	{ 384 385 }	{ 75	1064
Cantor, David, Connellsville, Pa. Distilling apparatus.....	553,206	Jan. 14	1311	318	74	260
Cantrell, Roy J. (See Cantrell, William B., assignor.)						
Cantrell, Thomas G., San Francisco, Cal. Igniter for explosive-engines.....	564,737	July 28	2619	624	76	531
Cantrell, William B., Seattle, Wash., assignor to R. J. Cantrell, San Francisco, Cal. Step or extension ladder.....	570,661	Nov. 3	455	107	77	724
Cantwell, Thomas, New York, N. Y. Flooring.....	564,820	July 28	2764	657	76	555
Cantwell, Thomas J., et al. (See Leinard, Edgar A., assignor.)						
Capel, William H., New York, N. Y. Combination stud and scarf-pin securer.....	567,377	Sept. 8	1152	276	76	1506
Capelli, William, et al. (See Conrad, Charles P., assignor.)						
Capewell, George J., Hartford, Conn. Hot-air furnace.....	557,551	Apr. 7	31	9	75	8
Capewell, George J., assignor to American Specialty Company, Hartford, Conn. Vegetable-peeler.....	557,188	Mar. 31	3039	727	74	1770
Capewell, George J., assignor to Specialty Manufacturing Company, Hartford, Conn. Barrel-opener.....	561,537	June 2	853	205	75	1531
Capewell, George J., assignor to Specialty Manufacturing Company, Hartford, Conn. Combination-tool.....	572,406	Dec. 1	579	137	77	1388
Capewell, George J., and W. G. Allen, Hartford, Conn., assignors to American Specialty Company of Connecticut. Machine for making wire spokes for bicycles, &c.....	563,221	June 30	3812	{ 913 914 }	{ 75	2171
Capitaine, Emil, Leipsic, Germany, assignor to G. T. Harris, Philadelphia, Pa. Motor-vehicle.....	572,498	Dec. 1	718	171	77	1414
Capitaine, Emil, Leipsic, Germany, assignor to G. T. Harris, Philadelphia, Pa. Apparatus for regulating temperature of combustion-chambers and vaporizers of petroleum-motors.....	572,439	Dec. 1	720	171	77	1415
Capitaine, Emil, Frankfort-on-the-Main, Germany, assignor to G. T. Harris, Philadelphia, Pa. Pump for raising and measuring liquids.....	573,641	Dec. 22	2804	664	77	1865
Capitaine, Emil, Frankfort-on-the-Main, Germany, assignor to G. T. Harris, Philadelphia, Pa. Speed-regulator for gas-engines.....	573,642	Dec. 22	2806	664	77	1865
Caplinger, Joseph E., San Antonio, Tex., assignor of one-half to W. J. Cain, Carrollton, Ky. Cabinet.....	570,199	Oct. 27	2605	619	77	532
Capper, Charles, Wilkinsburg, assignor of one-half to W. D. Corcoran, Pittsburg, Pa. Crucible.....	553,702	Jan. 28	2172	514	74	449
Capps, Frank L., assignor to United States Phonograph Company, Newark, N. J. Spring-motor for phonographs, &c.....	570,378	Oct. 27	2964	703	77	598
Capron, Henry E., Pinkhamton, Colo. Sleigh.....	554,771	Feb. 18	1716	402	74	858

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Card, Benjamin F., Brooklyn, N. Y. Speed-indicating alarm	569,171	Oct. 13	779	182	77	165
Card, Benjamin F., Brooklyn, N. Y. Speed-indicating alarm	573,568	Dec. 22	2652	630	77	1834
Card, Benjamin F., Brooklyn, N. Y., assignor of one-eighth to D. Naugle, Closter, N. J. Emergency electric brake	562,118	June 16	1876	455	75	1767
Card, Charles V., Mayburg, Pa. Jack-post	559,262	Apr. 28	3128	756	75	639
Carden, John, Carpinteria, Cal. Currycomb	553,300	Jan. 21	1482	356	74	306
Cardoso e Bastos, Alfredo A., São Paulo, Brazil. Electric program-clock	560,076	May 12	1344	{ 301 302 }	75	949
Cardwell, John. (See Lister and Cardwell.)						
Carens, James F. (See Woodman, George F., assignor.)						
Carey, John, and W. A. Reid, assignors of one-half to G. Myers, Schenectady, N. Y. Grinding and drilling machine	569,126	Oct. 6	697	162	77	133
Carey, Robert F., assignor to Carey & Sons, Limited, Nottingham, England. Twist-lace	563,708	July 7	795	190	76	149
Carey & Sons. (See Carey, Robert F., assignor.)						
Carey, William, Viola, Mich. Fire-escape	569,810	Oct. 20	1928	458	77	391
Carey, William, assignor to Carey Wire Sewing Machine Company, Limited, Montreal, Canada. Shoe-sewing machine	559,771	May 5	728	174	75	819
Carey Wire Sewing Machine Company. (See Carey, William, assignor.)						
Carhart, Clarence M., Plainfield, assignor to himself, and A. Amerman, Raritan, N. J. Crushing-mill	561,538	June 2	854	{ 205 206 }	75	1531
Carhart, George W. (See King and Carhart.)						
Carl, Lorenzo D. (See Myers and Carl.)						
Carleton, Cyrus. (See Willcox and Carleton.)						
Carleton, Ernest W., Austin, Tex. Clutch	559,261	Apr. 28	3127	755	75	638
Carleton, Thomas L., New Orleans, La., assignor to himself, W. H. Belt, Scranton, E. G. Burkin, Biloxi, Miss., and F. L. Lewis, Auburndale, Ohio. Lightning-arrester and automatic fuse-block	563,257	July 7	38	9	76	9
Carley, William J., Pittsburg, Pa. Corn-fork	568,237	Sept. 22	2652	635	76	1816
Carlie, George F., New York, N. Y., assignor of seven-tenths to W. M. Coulling, T. F. Green, and C. K. Coulling, Richmond, Va. Cigarette-machine	568,661	Sept. 29	3417	{ 817 818 }	76	1974
Carlin, David, Bellevue, Pa. Hydraulic press for covering cables with lead	574,132	Dec. 29	3691	879	77	2042
Carll, Addison B., Jersey City, N. J. Pipe-hanger	552,986	Jan. 14	921	223	74	186
Carll, Addison B., Brooklyn, N. Y. Adjustable beam-clamp	559,025	Apr. 28	2648	645	75	549
Carlos, Timothy F., Trenton, N. J. Invalid's support	555,694	Mar. 3	698	168	74	1259
Carlsen, Andrew M., St. Paul, Minn. Animal-trap	558,038	Apr. 14	953	234	75	196
Carlson, Anders G., assignor of one-fourth to C. J. Cromley, Rico, Colo. Bottle-stopper	559,360	May 5	18	5	75	684
Carlson, Androv. (See Stromberg and Carlson.)						
Carlson, Charles, Deer Trail, Colo. Car-coupling	553,207	Jan. 14	1311	318	74	260
Carlson, Charles, Deer Trail, Colo. Car-coupling	553,332	Jan. 21	1538	367	74	315
Carlson, Gustaf, Hartford, Conn. Aid to writing	558,632	Apr. 21	1966	477	75	404
Carlson, Gustaf H., assignor of one-half to L. D. Gumb, Lowell, Mass. Revolving swing	554,215	Feb. 4	744	169	74	642
Carlson, Gustave. (See Carroll and Carlson.)						
Carlson, Gustave, assignor of one-half to G. W. Johnson, Chicago, Ill. Necktie	560,686	May 26	2491	571	75	1225
Carlson, Gustave, and P. Lawson, Valentine, Nebr. Barber's case	569,274	Oct. 13	959	230	77	199
Carlson, John, Brooklyn, N. Y., assignor to Seamless Structural Tube Company, Jersey City, N. J. Metal tube	556,805	Mar. 24	2375	559	74	1623
Carlson, John A. (See Imbertson and Carlson.)						
Carlson, John A., Shelburne Falls, Mass. Knife grinding and polishing machine	560,390	May 19	1926	{ 439 440 }	75	1106
Carlson, John W. (See Larson and Carlson.)						
Carlson, Lars H., Lorain, Ohio. Grapple	574,133	Dec. 29	3693	{ 879 880 }	77	2042
Carlson, Perry A., Denver, Colo. Paint-brush receptacle	553,052	Jan. 14	1030	251	74	207
Carlson, William O., Menominee, Mich. Offsetting device for sawmill-carriages	564,866	Oct. 28	2841	680	76	570
Carlton, Edmund E., Cambridge, Mass. Neck-protector	569,540	Oct. 13	1409	333	77	283
Carlton, Harvey B., Rochester, N. Y. Photographic camera	564,472	July 21	2158	506	76	428
Carlton, Walker Y., Centralia, Va. Extension-step for railway-cars	568,601	Sept. 29	3303	792	76	1952
Carlton, William F., and H. W. Locke, Rochester, N. Y.; said Locke assignor to said Carlton. Photographic camera	558,039	Apr. 14	955	234	75	197
Carlyle, George, Detroit, Mich., assignor to H. W. Crouse, trustee, New York, N. Y. Button-making machine	561,564	June 9	901	217	75	1566
Carlyle, George, and W. Nageborn, assignors to Standard Pearl Button Company, Limited, Detroit, Mich. Button-making machine	554,052	Feb. 4	453	{ 100 101 102 }	74	587
Carman, Alvin O., Maple Rapids, Mich. Paper box	559,050	Apr. 28	2694	656	75	557
Carman, Charles L., assignor to Gates Iron Works, Chicago, Ill. Hoisting and dumping apparatus	552,513	Jan. 7	19	6, 7	74	7
Carmichael, Henry, Malden, Mass. Manufacturing fiber-ware	568,518	Sept. 29	3144		76	1922
Carmichael, Henry, Malden, Mass. Apparatus for making hollow fiber-ware	568,519	Sept. 29	3146	{ 758 759 }	76	1923
Carmichael, James H. (See Wright and Carmichael.)						
Carmichael, William, Bloomington, Ind. Can-opener	562,885	June 30	3210	776	75	2052
Carmichael, William P., Savannah, Ga. Wheelbarrow	556,616	Mar. 17	2053	480	74	1545
Carmont, Hazelwood, Kingston-upon-Thames, England. Wheel-tire	557,050	Mar. 24	2795	664	74	1703
Carnahan, Charles C., et al. (See Wright, Elmer H., assignor.)						
Carnahan, Charles M., Newport, Ky., assignor to Globe Company, Cincinnati, Ohio. Paper-file	573,569	Dec. 22	2654	630	77	1834
Carnahan, John G., Oxford, Ind. Windmill-gearing	565,105	Aug. 4	267	64	76	666
Carnegie Steel Company. (See Kindl, Frederick H., assignor.)						
Carnell, Harry G., Dayton, Ohio. Gas-engine	556,086	Mar. 10	1067	255	74	1347
Carnier, O. G., et al. (See Watson, James M., assignor.)						
Carnes, Samuel, Vienna, Ga. Wheel	560,970	May 26	2985	685	75	1319
Carney, Charles J., assignor to Brooks Locomotive Works, Dunkirk, N. Y. Key-seating machine	572,863	Dec. 8	1353	{ 326 327 }	77	1556
Carney, Michael J. (See Gardner and Carney.)						
Carney, Thomas, Central City, W. Va. Kitchen-cabinet	569,541	Oct. 13	1410	333	77	283
Carney, Thomas, assignor to National Cash Register Company, Dayton, Ohio. Cash register, indicator, recorder, and check-printer	562,707	June 23	2860	{ 695 696 697 }	75	1968
Carrick, John, New York, N. Y., assignor, by mesne assignments, to Peptenzyme Company, of New York. Digestive compound	565,329	Aug. 4	694		76	744
Carns, John W., and E. Fallor, Pierce, Ohio. Bicycle-tire	569,172	Oct. 13	781	183	77	165
Carothers, Oliver, Orbisonia, Pa. Wheel-hub	566,964	Sept. 1	394	91	76	1357

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Carpenter, Adeline E., <i>et al.</i> (See Bolus, William G., assignor.)						
Carpenter, Augustus J., assignor of one-half to A. Myers, Louisville, Ky. Surgical appliance	566,657	Aug. 25	3050	745	76	1245
Carpenter, Benjamin F., Roselle, N. J. Bitransit railway system	570,451	Nov. 3	12	4	77	641
Carpenter, Charles E., Bridgeport, Conn. Method of and apparatus for preparing or treating electrical conductors	555,895	Mar. 3	699	169	74	1260
Carpenter, Charles W., <i>et al.</i> (See Crowell, Luther C., assignor.)						
Carpenter, Charles W., <i>et al.</i> (See North, Thomas M., assignor.)						
Carpenter, Charles W., <i>et al.</i> (See Sheldon, Edward P., assignor.)						
Carpenter, Charles W., <i>et al.</i> (See Spalckhaver, William, assignor.)						
Carpenter, Charles W., <i>et al.</i> (See Tucker, Edwin D., assignor.)						
Carpenter, Charles W., <i>et al.</i> (See Tucker, Stephen D., assignor.)						
Carpenter, Charles W., <i>et al.</i> (See Turner, George W., assignor.)						
Carpenter, Daniel A., New York, N. Y. Machine for attaching buttons to garments	556,002	Mar. 10	899	{ 214 215 }	74	1318
Carpenter, Daniel A., New York, N. Y. Machine for attaching buttons to garments	562,571	June 23	2642	640	75	1927
Carpenter, Daniel A., New York, N. Y. Button-hopper	562,572	June 23	2645	{ 640 641 }	75	1928
Carpenter, Daniel A., New York, N. Y. Fastening for coats, gloves, &c	568,520	Sept. 29	3152	759	76	1923
Carpenter & Dyett, <i>et al.</i> (See Rogers, Harley C., assignor.)						
Carpenter, Edwin P. (See Kokocinski, Leon, assignor.)						
Carpenter, G. M., <i>et al.</i> (See Walker, Joseph, assignor.)						
Carpenter, Henry L., Minneapolis, Minn. Street-sweeper	555,473	Feb. 25	2984	{ 710 711 }	74	1110
Carpenter, Herbert M., Minneapolis, Minn. Safety coal-hole cover	559,164	Apr. 28	2936	709	75	603
Carpenter, James C., <i>et al.</i> (See Markley, John A., assignor.)						
Carpenter, James H. (See Hamilton, Isaac N., assignor.)						
Carpenter, James H., Reading, Pa. Manufacture of steel	559,359	May 5	17		75	684
Carpenter, James M., assignor to J. M. Carpenter Tap and Die Company, Pawtucket, R. I. Tap and die holder	560,083	May 12	1354	304	75	951
Carpenter, Milton L., East Hampton, Conn. Bicycle-bell	559,437	May 5	161	35	75	712
Carpenter, Rolla C., Ithaca, N. Y., assignor to T. Olsen, Philadelphia, Pa. Machine for testing lubricants	567,378	Sept. 8	1153	276	76	1506
Carpenter, Rolla C., Ithaca, N. Y., assignor to T. Olsen, Philadelphia, Pa. Machine for testing lubricants	569,407	Oct. 13	1195	282	77	243
Carpentier, Arsène, Caudry, France. Embroidering-machine	566,656	Aug. 25	3046	{ 744 745 }	76	1244
Carpentier, Georges J. N., Newport News, Va. Safety device for steam-boilers	559,995	May 12	1187	263	75	921
Carpentier, Georges J. N., Newport News, Va. Safety device for steam-boilers	569,811	Oct. 20	1931	459	77	391
Carper, Kent H., assignor to Bonsack Machine Company, Salem, Va. Filler-forming mechanism for cigarette-machines	554,216	Feb. 4	745	170	74	642
Carpet Loom Company. (See Martin, James E., assignor.)						
Carr, Frank L., Jr., Brooklyn, N. Y. Display-stand	562,215	June 16	2033	491	75	1797
Carr, Fred S., West Newbury, Mass. Carriage-iron	553,668	Jan. 28	2114	501	74	437
Carr, Howard, assignor to San Francisco Arms Company, San Francisco, Cal. Recoil-operated firearm	574,189	Dec. 29	3821	{ 912 913 }	77	2063
Carr, James E., New Haven, Conn. Joint for wooden bicycle rims	557,967	Apr. 7	789	188	75	149
Carr, John, Detroit, Mich. Freight-car	556,960	Mar. 24	2630	618	74	1670
Carr, John B., Boston, assignor of one-half to J. Mattson, Revere, Mass. Coin-controlled machine	562,280	June 16	2137	{ 520 521 }	75	1816
Carr, Matthew, London, England. Bottle	569,614	Oct. 20	1564	367	77	326
Carr, Warren H., assignor of three-fourths to W. W. Pendexter, C. R. Donnell, and A. H. Shaw, Bath, Me. Gripper for cables	553,898	Feb. 4	169	35, 36	74	536
Carr, Warren H., assignor of five-eighths to W. L. White, A. H. Shaw, and C. R. Dawnell, Bath, Me. Trolley-head	555,674	Mar. 3	332	76	74	1189
Carr, William C., Baldwin, Ill. Wire-stretcher	559,513	May 5	279	66	75	736
Carrer, Leo. (See Meyer and Carrer.)						
Carrey, John, De Soto, Mo. Stalk-cutter	569,856	Oct. 20	2003	478	77	405
Carriage Cycle Company. (See Pfantz, Daniel M., assignor.)						
Carricabura, Leon B., New York, N. Y. Feed-water heater or condenser	559,674	May 5	547	127	75	786
Carrick, David S., Oakland, Cal. Invalid-chair	559,119	Apr. 28	2819	{ 682 683 }	75	584
Carrick, William, Boston, Mass. Manicure implement	562,573	June 23	2647	641	75	1928
Carrier, Courtland S., Omaha, Nebr. Propelling mechanism for vessels	553,333	Jan. 21	1539	368	74	315
Carrigan, Edward. (See Maingot, Joseph N., assignor.)						
Carrington, Arthur H., <i>et al.</i> (See Sinclair, John B., Jr., assignor.)						
Carrington, Campbell, <i>et al.</i> (See Link, John A., assignor.)						
Carrington, Edward N., <i>et al.</i> (See Sinclair, John B., Jr., assignor.)						
Carroll, Alexander H., Philadelphia, Pa. Horseshoe	555,361	Feb. 25	2777	651	74	1072
Carroll, Edgar J., Worcester, assignor to Sawyer Spindle Company, Boston, Mass. Spindle and bearing	567,219	Sept. 8	845	200	76	1453
Carroll, Fred M., assignor of one-half to J. E. Beebe, Union City, Pa. Cyclometer	552,819	Jan. 7	604	147	74	113
Carroll, James A., and W. Brooks, Brooklyn, N. Y. Gas-conducting device and damper for stoves	559,675	May 5	549	128	75	787
Carroll, James A., and G. Carlson, Valentine, Nebr. Washboard	566,890	Sept. 1	261	61	76	1332
Carroll, John, Canisteo, N. Y. Form for setting up barrels	553,301	Jan. 21	1483	356	74	306
Carroll, Joseph A., Beaumont, Tex. Log-carrier	572,742	Dec. 8	1163	279	77	1519
Carroll, Richard M., Sydney, New South Wales. Wrench	572,191	Dec. 1	165	40	77	1310
Carroll, Stephen H., <i>et al.</i> (See Shepard, John F., assignor.)						
Carroll, Thomas, assignor to Security Lock and Manufacturing Co., Dayton, Ohio. Bicycle-lock	567,807	Sept. 15	1868	447	76	1657
Carroll, Timothy, Anaheim, Cal. Load-dumping apparatus	561,485	June 2	749	184	75	1512
Carroll, William R., Keatchie, La. Plow	567,220	Sept. 8	846	200	76	1453
Carruthers, John, assignor of one-half to M. J. Peters, Callery, Pa. Casing-spear	557,968	Apr. 7	790	189	75	149
Carruthers, John, assignor of one-half to M. J. Peters, Callery, Pa. Packing collar or sleeve for oil, gas, or Artesian well casings	563,135	June 30	3668	878	75	2144
Carryl, Henry D., New York, N. Y., assignor to Lamb Manufacturing Company, Jersey City, N. J., and Chicopee Falls, Mass. Skate	572,500	Dec. 1	721	172	77	1415
Carryl, Henry D., New York, N. Y., assignor to Lamb Manufacturing Company, Jersey City, N. J., and Chicopee Falls, Mass. Skate	572,501	Dec. 1	724	172	77	1415
Carson, George J., Chicago, Ill. Insulating joint	554,332	Feb. 11	958	221	74	697
Carson, George J., assignor to H. G. Willard, Chicago, Ill. Electric slide for chandeliers	568,740	Oct. 6	43	11	77	11
Carson, William A., Letart, W. Va. Gate-opener	568,402	Sept. 29	2923	703	76	1883

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Carter, C. M., <i>et al.</i> (See Wood, James B., assignor.)						
Carter, Chapel. (See Cook and Carter.)						
Carter, Chapel S., <i>et al.</i> (See Wenger, Julius D. C., assignor.)						
Carter, Clarence W., Minneapolis, Minn., assignor to S. C. Carter, Chicago, Ill. Street-car brake	563,446	July 7	357	82	76	69
Carter-Crume Company. (See Bengough, James, assignor.)						
Carter-Crume Company. (See Dickson, John R., assignor.)						
Carter-Crume Company. (See Kinnard, Will M., assignor.)						
Carter-Crume Company. (See O'Hara, Walter W., assignor.)						
Carter, Dan E., Traverse City, Mich. Folding leg for furniture	554,981	Feb. 18	2078	494	74	926
Carter, Edward C., Evanston, Ill. Counterbalance for chutes for ore-docks	558,774	Apr. 21	2211	{ 532 533 }	75	448
Carter, Evershed. (See Carter, James, S. F., and E.)						
Carter, Frank. (See Carter, James, S. F., and E.)						
Carter, George M., J. H. and C. L. Drew, East Prairie, Mo. Pumping power	571,611	Nov. 17	2089	{ 501 502 }	77	1068
Carter, George W., Haverhill, Mass., assignor to Consolidated Hand Method Lasting Machine Company, Nashua, N. H. Lasting-machine	562,119	June 16	1878	455	75	1767
Carter, Hastings & Howe. (See Thiery, Edward A., assignor.)						
Carter, Henry C., Belmont, N. Y. Horse fly-net and cover	567,078	Sept. 1	611	142	76	1398
Carter, Herman, Mount Sterling, Ohio. Machine for weaving cross-wires in wire fences	561,965	June 16	1608	391	75	1719
Carter, James, S. F., and E., Billingshurst, England. Petroleum-oil engine	552,666	Jan. 7	328	87	74	64
Carter, John A., and C. A. Williams, Belleville, Kans. Signal-light	554,861	Feb. 18	1875	441	74	889
Carter, John T., Danville, Va. Tobacco-leaf spreader	563,656	July 7	697	{ 164 165 }	76	131
Carter, John W., Brooklyn, N. Y. Gas-heater	573,205	Dec. 15	1969	474	77	1691
Carter, Lattimore, and E. Kemble, Hoboken, N. J. Music-turner	562,866	June 30	3211	776	75	2052
Carter, Montague F., Boston, Mass. Banjo	555,636	Mar. 3	265	61	74	1178
Carter, Oliver C. (See Lombard, Edward C., assignor.)						
Carter, Samuel C. (See Carter, Clarence W., assignor.)						
Carter, Sidney. (See Carter, James, S. F., and E.)						
Carter, William, Louisville, Ky. Electric transformer	555,074	Feb. 25	2263	540	74	974
Carter, William, Louisville, Ky. Electrotherapeutic apparatus	556,617	Mar. 17	2055	481	74	1545
Carter, William W. (See Seymour, Charles J., assignor.)						
Carter's Ink Company. (See Hopkins, Robert G., assignor.)						
Cartledge, Francis J., Ipswich, Mass. Knitting-machine	566,965	Sept. 1	395	91, 92	76	1357
Cartledge, Francis J., and H. B. Dawson, Ipswich, Mass. Sinkers-holder for knitting-machines	554,475	Feb. 11	1207	281	74	744
Cartwright, Mattie E., St. Louis, Mo. Veil-holder	561,760	June 9	1256	299	75	1633
Cartwright, William J., New York, N. Y. Car-brake	570,594	Nov. 3	300	74	77	694
Carty, John J., New York, N. Y. Telephone-exchange apparatus	564,173	July 14	1663	389	76	325
Carver, Cephas R. (See Swift and Packer, assignors.)						
Carver, David F., Brooklyn, assignor of one-half to J. C. Brackenridge, Richmond Hill, N. Y. Switch and mate	563,657	July 7	698	165	76	132
Carver, George H., Plano, assignor to Plano Manufacturing Company, Chicago, Ill. Sprocket-chain tightener	572,864	Dec. 8	1355	327	77	1556
Carver, Herman C., and V. E. Benedict, Red Oak, Iowa. Painter's apparatus	556,302	Mar. 10	1495	347	74	1425
Carver, Jacob N. (See Showalter and Carver.)						
Carver, Orville, <i>et al.</i> (See Wood, Ben, assignor.)						
Cary, Cornelia H., Brooklyn, N. Y. Combination cloak rack or stand	566,495	Aug. 25	2821	688	76	1200
Cary, Nathaniel S., Greenville, assignor to himself, R. Fessenden, Barrington, and D. S. Salisbury, Mapleville, R. I. Faucet	568,238	Sept. 22	2653	635	76	1817
Casaday, Nelson B., and W. M. Arthur, Leadville, Colo. Lunch-bucket	557,767	Apr. 7	443	105	75	84
Casazza, August, Hoboken, N. J. Electric railway	553,952	Feb. 4	278	61, 62	74	555
Casco Paper Box Company. (See MacDonald, Fred S., assignor.)						
Case, Alfred W., Highland Park, Conn. Screw-propeller	553,953	Feb. 4	280	62	74	556
Case, Charles E., assignor of one-half to W. F. Sluyter, Fenton, Mich. Lantern-lighter	570,379	Oct. 27	2968	704	77	599
Case, Emanuel B., Mount Vernon, Mo. Feed-chopping apparatus	552,820	Jan. 7	607	147	74	114
Case, Frank E. (See Potter and Case.)						
Case, Henry J., Owasco, assignor to Johnston Harvester Company, Batavia, N. Y. Sheaf-carrier	553,053	Jan. 14	1031	{ 251 252 }	74	207
Case, Henry J., Owasco, assignor to Johnston Harvester Company, Batavia, N. Y. Grain-harvester	559,480	May 5	229	51, 52	75	727
Case, Henry J., Owasco, assignor to Johnston Harvester Company, Batavia, N. Y. Grain-harvester	561,486	June 2	753	185	75	1512
Case, John M., Cincinnati, Ohio. Dust-collector	563,709	July 7	796	{ 190 191 }	76	149
Case, William, Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Metal car-bolster	563,014	June 30	3440	827	75	2101
Case, William, Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Draft-rigging	564,867	July 28	2843	681	76	571
Case, William, Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Bolster for cars	565,404	Aug. 4	820	194	76	768
Case, William, Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-bolster	565,405	Aug. 4	821	194	76	769
Case, William, Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Truck	565,406	Aug. 4	822	194	76	769
Case, William, Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Metal bolster for cars	570,979	Nov. 10	1007	{ 233 234 }	77	854
Case, William, Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Draft-iron for railway-cars	570,980	Nov. 10	1008	234	77	854
Case, William C., Dexter, N. Y. Grinding mowing-machine knives	562,456	June 23	2442	593	75	1890
Casey, J. J. (See Thomas, Wesley A., assignor.)						
Casey, John J., Chicago, Ill. Brake-beam	565,879	Aug. 18	1705	417	76	970
Casey, John P., Bloomsburg, Pa. Electric elevator	572,525	Dec. 8	768	182	77	1439
Casey, John T., Philadelphia, Pa. Lantern	561,487	June 2	754	185	75	1512
Casey, John W., Sistersville, W. Va. Feed-water heater	562,574	June 23	2648	641	75	1928
Casey, John W., Sistersville, W. Va. Superheater	562,575	June 23	2649	642	75	1928
Casey, Niram, assignor of one-half to A. G. Hayes, Manchester, Conn. Apparatus for grinding car-wheels in place	566,891	Sept. 1	262	61	76	1332
Cash, Rosa W., Washington, D. C. Dress-fastening stay	557,252	Mar. 31	3165	759	74	1791
Cashel, John L. (See Bates, William D., assignor.)						
Casler, Alonzo A., Dubois, Pa. Vapor-stove	566,710	Aug. 25	3147	{ 769 770 }	76	1261

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Casler-Alton Company. (See Casler, Benjamin G., assignor.)						
Casler, Benjamin G. (See Meaber, Joseph A., assignor.)						
Casler, Benjamin G., Cleveland, Ohio. Clamp.....	562,949	June 30	3334	801	75	2080
Casler, Benjamin G., assignor to Casler-Alton Company, Cleveland, Ohio. Display- <i>fixture</i> attachment.....	561,865	June 9	1439	347	75	1667
Casler, Benjamin G., assignor to Casler-Alton Company, Cleveland, Ohio. Adjustable bracket for display- <i>fixtures</i>	562,887	June 30	3213	777	75	2053
Cason, Davis E. (See Gamble, John A., assignor.)						
Cason, John D., and J. H. Jamison, Nashville, Tenn. Whiffletree.....	560,341	May 19	1834	417	75	1089
Casper, Joseph W. (See Hall and Casper.)						
Casse, Frederik, Copenhagen, Denmark. Preserving milk or cream.....	565,837	Aug. 11	1618	.....	76	937
Cassel, Henry R. (See Waring, John B., assignor.)						
Cassel, Henry R., New York, N. Y. Extracting gold.....	568,427	Sept. 29	2964	712	76	1890
Cassel, Henry R., New York, N. Y. Extracting gold from substances containing it.....	568,741	Oct. 6	45	11	77	12
Cassel, Henry R., New York, N. Y. Apparatus for disinfecting ships or other structures.....	569,173	Oct. 13	782	183	77	165
Casselberry, Samuel H., assignor of one-half to W. Prizer, Collegeville, Pa. Rolling win- dow-screen.....	566,284	Aug. 18	2391	586	76	1104
Casselberry, Thomas E., Williamsport, Pa. Spring bed-bottom.....	566,496	Aug. 25	2822	688	76	1200
Cassella & Co., Leopold. (See Weinberg, Arthur, assignor.)						
Casselman, Amos B. (See Lutes, George W., assignor.)						
Cassidy, Jacob H., Leavenworth, Kans. Wagon-tongue support.....	564,590	July 28	2378	560	76	486
Cassidy, Patrick, Worcester, Mass. Trolley-wire and trolley-wheel.....	567,186	Sept. 8	795	188	76	1444
Casterline, Edwin D., San José, Cal. Toilet-paper holder.....	572,331	Dec. 1	435	102	77	1362
Castle, Elmer E., assignor of one-half to L. B. Bassett, Norwich, N. Y. Sleeping-car.....	555,281	Feb. 25	2633	{ 617 618 }	74	1044
Castle, Peter C. D., Liverpool, England. Extracting gum from plants.....	566,497	Aug. 25	2823	.....	76	1200
Castleden, George, Framlingham, England. Candlestick.....	571,338	Nov. 17	1630	387	77	985
Castner, Hamilton Y., London, England. Anode for electrolytic processes.....	572,472	Dec. 1	671	.....	77	1406
Castner, Herman M., Portland, Me. Refrigerator.....	566,740	Sept. 1	15	4	76	1283
Casto, Fletcher A. (See Casto, Henry E. and F. A.)						
Casto, Henry E. and F. A., Casto, W. Va. Door-securer.....	568,189	Sept. 22	2562	616	76	1800
Caswell, Chester A. (See Crane, Thomas, assignor.)						
Caswell, Myron J., assignor of one-half to J. B. Conradi, Sandusky, Ohio. Kettle-drainer. Cataract Construction Company. (See Sellers, Coleman, assignor.)	563,136	June 30	3669	878	75	2144
Cathan, Charles, Beloit, Kans. Thill-coupling.....	557,552	Apr. 7	33	10	75	8
Cather, James. (See Owens, Thomas J., assignor.)						
Cathoscope Electrical Company. (See Hamerschlag, Arthur A., assignor.)						
Catenna, Peter, Columbia, Tenn. Churn.....	565,330	Aug. 4	698	167	76	745
Catlin, Eli, assignor of one-half to E. W. White, Post oak, Tex. Well-drilling machine.....	553,899	Feb. 4	172	36, 37	74	537
Catlin, Robert M., Tuscarora, Nev., assignor to San Francisco Arms Company, San Fran- cisco, Cal. Recoil-operated firearm.....	574,350	Dec. 29	4114	{ 977 978 }	77	2118
Caughey, Frank T., <i>et al.</i> (See Kelsea, George K., assignor.)						
Caum, Frank, Hartford, Conn. Oil-distributing apparatus.....	564,969	Aug. 4	12	3, 4	76	619
Caum, Frank, Hartford, Conn. Lubricator.....	564,970	Aug. 4	19	4	76	620
Caunter, George, <i>et al.</i> (See Banwell, James, assignor.)						
Cavallaro, Francesco, San José, Cal. Flushing device for sewers.....	558,156	Apr. 14	1150	281	75	235
Cavalli, Joseph A., San Francisco, Cal. Nailing-machine for boots or shoes.....	572,692	Dec. 8	1061	{ 258 259 260 }	77	1500
Cavanagh, Thomas F., New York, N. Y. Buckle.....	553,703	Jan. 28	2173	514	74	449
Cavanagh, Mary C., and J. M. Lüsberg, Portland, Oreg. Cabinet for trunks.....	563,841	July 14	1046	246	76	211
Cave, Daniel, Sharon, Pa. Ventilating attachment for hot-blast stoves.....	562,708	June 23	2871	697	75	1970
Cave, Henry, Rangiora, New Zealand. Crupper for restraining horses from kicking.....	569,812	Oct. 20	1932	459	77	392
Cave, William D., Lamar, Mo. Book-holder.....	564,779	July 28	2700	642	76	544
Cave, William P., assignor of one-half to E. E. Katz, San Bernardino, Cal. Picture-hanging device.....	558,548	Apr. 21	1822	444	75	378
Caverno, Xenophon, and W. E. Fowler, Denver, Colo. Sliding-door latch.....	565,428	Aug. 11	862	204	76	796
Caywood, Ellery S. (See Williams and Caywood.)						
Cazier, Perry H., Nashville, assignor to S. McIntosh, H. Parmer, and I. Sponable, Hast- ings, Mich. Grinding-machine.....	569,782	Oct. 20	1886	448	77	383
Cazin, Francis M. F., Hoboken, N. J., assignor to J. H. Bailey and O. S. Burr, trustees. Electric incandescent lamp.....	566,285	Aug. 18	2393	587	76	1104
Cazin, Franz, assignor to Colorado Iron Works, Denver, Colo. Crushing-rolls.....	553,391	Jan. 21	1631	389	74	333
Cazin, Franz, assignor to Colorado Iron Works, Denver, Colo. Crushing-roll.....	568,662	Sept. 29	3420	818	76	1975
Cederberg, Carl, Sydney, assignor to H. Shute, Ashfield, New South Wales. Venetian blind. Cedzo, Martin. (See Cedzo, Stefan, assignor.)	572,927	Dec. 8	1471	354	77	1580
Cedzo, Stefan, assignor of one-half to M. Cedzo, Milwaukee, Wis. Animal-trap.....	573,761	Dec. 22	3006	712	77	1902
Celler, Charles I. (See Hirsch, Kalman, assignor.)						
Celluloid Company. (See Stevens, John H., assignor.)						
Celluloid Company. (See Stevens and Axtell, assignors.)						
Celluloid Company. (See Stevens and Lefferts, assignors.)						
Celluloid Manufacturing Company. (See Stevens, John H., assignor.)						
Center, John W., <i>et al.</i> (See Paige, James H., assignor)						
Central Electric Heating Company. (See Hadaway and Davis, assignors.)						
Cericola, Francesco P., Brooklyn, N. Y. Musical instrument.....	567,079	Sept. 1	612	{ 142 143 }	76	1398
Cerruti, Antonio, assignor of two-thirds to Fontana & Co., San Francisco, Cal. Can-wiping machine.....	556,879	Mar. 24	2500	589	74	1647
Chaboche, Edmond, Paris, France. Rotary engine.....	569,408	Oct. 13	1198	282	77	243
Chabot, Joseph. (See Precourt, Edward J., assignor.)						
Chace, Albert F., Boston, Mass. Vehicle-wheel.....	570,697	Nov. 3	521	121	77	735
Chadborn, John B., and E. Androvett, Newburg, N. Y. Ash-sifter.....	569,745	Oct. 20	1823	432	77	372
Chadburn, William, Liverpool, England. Order-transmitting device for vessels.....	556,332	Mar. 17	1548	{ 362 363 }	74	1451
Chaddock, William H., Cleveland, Ohio. Bunsen burner.....	570,084	Oct. 27	2404	569	77	494
Chadwick Copying Book Company. (See Twyman, John W., assignor.)						
Chadwick, Cyrus W., assignor of one-half to C. Coates, Cliftondale, Mass. Engine valve- gear.....	561,696	June 9	1128	269	75	1608
Chadwick, Everett D., Boston, Mass. Detachable fastening.....	572,865	Dec. 8	1356	327	77	1557
Chadwick, Sager, Philadelphia, Pa. Tawing leather.....	561,044	May 26	3104	.....	75	1342
Chadwick, Sarah J., Haverhill, Mass. Paper pad.....	554,110	Feb. 4	575	130	74	609
Chaffee, Charles S., Derby, and W. H. Moore, New Haven, assignors of one-third to J. Peter- son, Derby, Conn. Curtain-pole.....	557,091	Mar. 24	2860	683	74	1717

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Chaffee, Charles S., A. S. Hoffman, and F. A. Green, assignors of one-fourth to H. D. Sawyer, Derby, Conn. Carpet-sweeper	553,101	Jan. 14	1126	274	74	225
Chaffee, Frank W., Albany, N. Y. Spring-compressing mechanism	554,476	Feb. 11	1208	281	74	745
Chaffin, John M., Red Cloud, Nebr. Checkrein for harness	556,618	Mar. 17	2058	481	74	1546
Chalke, Edmund L., Cocanada, India. Commode	574,134	Dec. 29	3694	880	77	2042
Challands, Richard, F. W. Pare, and J. H. Smith, Nottingham, England. Knitting-machine	568,190	Sept. 22	2562	{ 617 618 }	76	1800
Challenge Corn Planter Company. (See Dickinson, Sherman, assignor.)						
Challenge Wind Mill and Feed Mill Company. (See Todd, James, assignor.)						
Challoner, Frank, Oshkosh, Wis. Shingle-sawing machine	555,148	Feb. 25	2399	{ 569 570 }	74	1001
Challoner, Frank, Oshkosh, Wis. Spalt-dropper for rotary shingle-sawing machines	559,362	May 5	23	6	75	685
Challoner, Frank, Oshkosh, Wis. Dog guiding and operating mechanism for shingle-sawing machines	560,687	May 26	2492	{ 571 572 }	75	1225
Challoner, Frank, Oshkosh, Wis. Machine for grinding saw-collars, saws, &c.	560,688	May 26	2494	{ 572 573 }	75	1225
Chamberlain, Courtland A., Canton, N. Y. Carpet-stretcher	555,362	Feb. 25	2778	651	74	1072
Chamberlain, Daniel, Boston, Mass. Baggage-support for bicycles	569,813	Oct. 20	1933	459	77	392
Chamberlain, George D. (See Graham, David F., assignor.)						
Chamberlain, Harold W., New York, N. Y. Hitching device	556,917	Mar. 24	2562	604	74	1658
Chamberlain, Marvin H., assignor to Detroit Liquid Separating Company, Detroit, Mich. Process of and apparatus for separating liquids and solids	562,376	June 23	2309	561	75	1864
Chamberlain, Minor E., Lebanon, Mo. Egg-case	564,914	July 28	2908	697	76	583
Chamberlain, Orange M., assignor to E. Stern, Boston, Mass. Sewing-machine	566,741	Sept. 1	15	4	76	1283
Chamberlain, Orrin F., et al. (See Midgley, Alexander, assignor.)						
Chamberlain, Rufus N., et al. (See Madden, Albert F., assignor.)						
Chamberlain, William T., assignor of one-half to C. B. Beebe, Norwich, Conn. Petroleum-burning furnace	562,802	June 30	3044	735	75	2021
Chamberlin, Frank H., Cleveland, Ohio. Supporting device	559,567	May 5	372	90	75	755
Chamberlin, Franklin L., Cleveland, Ohio. Internal-combustion engine	561,374	June 2	549	{ 138 139 }	75	1476
Chamberlin, John V. (See Aldrich and Chamberlin.)						
Chamberlin, S. Scovel, et al. (See Bragg, Robert, assignor.)						
Chamberlin, Willard D., et al. (See Bragg, Robert, assignor.)						
Chamberlin, William F., et al. (See Bragg, Robert, assignor.)						
Chambers, Bering, Quinlan Company. (See Kaylor, John, assignor.)						
Chambers Brothers Company. (See King, Howard K., assignor.)						
Chambers, James A., Pittsburg, Pa. Apparatus for annealing plate-glass	559,361	May 5	19	5, 6	75	684
Chambers, Perry F., La Cygne, Kans. Shaft for vehicles	571,213	Nov. 10	1412	330	77	929
Chambliss, Zachariah C. (See Peace, John G., assignor.)						
Champ, Charles E. M., St. Louis, Mo. Device for forming and tempering buggy-springs	568,602	Sept. 29	3305	{ 792 793 }	76	1953
Champ, Joseph H., assignor to Bishop & Babcock Company, Cleveland, Ohio. Hydraulic air-compressor	570,540	Nov. 3	190	51	77	673
Champion Button Hole Machine Company. (See Rauehle, William, assignor.)						
Champion Cash Register Company. (See Knight, George S., assignor.)						
Champion Natural Carbonic Acid Gas Company. (See Formel, Julius Z., assignor.)						
Champion Tobacco Machine Company. (See Dela Mar, Joseph, assignor.)						
Champlain, D. (See Terman, James W., assignor.)						
Champlin, Amos F., Waterbury, Conn. Connecting-rod	560,837	May 26	2743	629	75	1274
Chance, John H., Forest, Ohio. Post	563,842	July 14	1047	246	76	211
Chandler Adjustable Chair and Desk Company. (See Feely, Joseph J., assignor.)						
Chandler Adjustable Chair and Desk Company. (See Hill, Frederick W., assignor.)						
Chandler, Alfred D., Chelmsford, Mass. Yarn-separator	553,392	Jan. 21	1632	389	74	334
Chandler, Charles H., et al. (See Wold, Olaus C., assignor.)						
Chandler, George E., Fall River, Mass. Yarn-separator for spinning-frames	553,102	Jan. 14	1129	274	74	226
Chandler, Milo O., Walden, Vt. Overalls	556,530	Mar. 17	1922	448	74	1521
Chandler & Price Company. (See Burnham, Frank A., assignor.)						
Chandler, Rufus, Newark, N. J. Support for rubber-tired wheels	556,806	Mar. 24	2376	559	74	1623
Chandler, Willis, Selkirk, Mo. Flood-fence	567,333	Sept. 8	1073	{ 256 257 }	76	1493
Chaney, James M., Independence, Mo. Planetarium	561,488	June 2	759	186	75	1513
Chaney, James M., Independence, Mo. Planetarium	573,137	Dec. 15	1851	446	77	1669
Chant, Percy, et al. (See Moritz, Charles, assignor.)						
Chapal, Antonin. (See Chapal, Henri and A.)						
Chapal, Henri and A., Brooklyn, N. Y. Fur-trimming machine	562,375	June 23	2306	560	75	1864
Chapin, Herbert L., Chelsea, Mass., assignor to Thomas Manufacturing Company, Wilmington, Del. Machine for stringing tags	555,637	Mar. 3	266	62	74	1178
Chapin, William D., et al. (See Nellis, Charles E., assignor.)						
Chapin, William R., et al. (See Lindsay, Archibald L., assignor.)						
Chapin, William R., assignor of two-thirds to A. L. Lindsay, Wyoming, and J. W. Howarth, Scranton, Pa. Thill-tug	570,904	Nov. 10	883	206	77	831
Chaplin, Edwin D. (See Browne and Chaplin.)						
Chaplin, Frederick J. and R., Birmingham, England. Brush for dynamo-electric machines	556,176	Mar. 10	1232	288	74	1377
Chaplin, Robert. (See Chaplin, Frederick J. and R.)						
Chapman, Andrew W. (See Orr and Chapman.)						
Chapman, Charles H., Groton, Mass. Ball-bearing	567,849	Sept. 15	1946	466	76	1673
Chapman & Co., J. B., et al. (See Cleasby, William H., assignor.)						
Chapman Derrick and Wrecking Company. (See Chapman, Kivlin, and Stoddard, assignors.)						
Chapman, Ernest E., and S. S. Creider, Sterling, Ill. Corn-snapper and fodder-cutter	554,241	Feb. 11	797	{ 182 183 }	74	667
Chapman, F. P. (See Geb, Jacob F., assignor.)						
Chapman, Frank E., Medford, Mass. Relay	558,672	Apr. 21	2042	492	75	417
Chapman, Frank L. G., assignor of one-half to V. P. Atwell, Stevens Point, Wis. Spindle-bearing for axles	553,334	Jan. 21	1540	368	74	316
Chapman, George D., assignor to J. L. Chapman, H. Sibley, and J. S. Wilson, Fitchburg, Mass. Lathe	566,060	Aug. 18	2032	493	76	1036

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Chapman, Henry P. (See Shailer and Chapman.)						
Chapman, Isaac E. and W. L. T. Kivlin, Brooklyn, N. Y., and E. M. Stoddard, Norfolk, Va., assignors to Chapman Derrick and Wrecking Company, New York, N. Y. Apparatus for raising sunken vessels	563,565	July 7	561	{ 129 130 }	76	105
Chapman, James L. (See Taft, Edward L., assignor.)						
Chapman, James L., et al. (See Chapman, George D., assignor.)						
Chapman, James R. (See Hanson and Chapman.)						
Chapman, James S., and J. M. Scott, assignors to Elitsac Manufacturing Company, Castile, N. Y. Game apparatus	558,157	Apr. 14	1152	282	75	235
Chapman, Mark C. (See Chapman, Matthew T. and M. C.)						
Chapman, Matthew T., assignor to American Well Works, Aurora, Ill. Pump	573,860	Dec. 29	3190	{ 759 760 }	77	1950
Chapman, Matthew T. and M. C., Aurora, Ill. Pump	572,959	Dec. 15	1536	368	77	1608
Chapman, Matthew T. and M. C., Aurora, Ill. Steam-engine	572,960	Dec. 15	1541	369	77	1609
Chapman, Newton S. (See Bernaner and Chapman.)						
Chapman, Norman S., Springfield, Mass. Greenhouse	566,443	Aug. 25	2741	665	76	1185
Chapman, Richard A., et al. (See Frankel, Julius, assignor.)						
Chapman, Robert W., P. Borger, Newark, N. J., and J. H. Linton, Fort Snelling, Minn.; said Linton assignor to said Chapman and Borger. Bottle	568,109	Sept. 22	2429	583	76	1774
Chapman, Truman M. P., assignor to E. Broberg, Minneapolis, Minn. Spring-roller	558,481	Apr. 21	1718	415	75	358
Chapman, William, assignor to Electro-Magnetic Traction Company, Washington, D. C. Electric-railway switch and box therefor	560,471	May 19	2067	471	75	1130
Chapman, William, assignor to Electro-Magnetic Traction Company, Washington, D. C. Electric railway	560,473	May 19	2071	472	75	1131
Chapman, William, and P. W. Davies, assignors to Electro-Magnetic Traction Company, Washington, D. C. Current-collecting device for electric railways	560,472	May 19	2070	472	75	1131
Chapman, William A., assignor to Strong Manufacturing Company, Winsted, Conn. Coffin-handle	558,897	Apr. 21	2423	590	75	489
Chapman, William L. (See Chapman, Kivlin, and Stoddard.)						
Chapman, Winthrop M. (See Cole and Chapman.)						
Chapman, Winthrop M. (See Turner and Chapman.)						
Chappell, Allen & Co. (See Rossiter, Thomas R., assignor.)						
Chapsal, François, Paris, France. Brake apparatus for railway-vehicles	555,075	Feb. 25	2264	{ 540 541 }	74	974
Chaquette, Ephraïem, assignor to Chaquette Power Company, Bridgeport, Conn. Apparatus for compressing air	565,429	Aug. 11	864	204	76	796
Chaquette Power Company. (See Chaquette, Ephraïem, assignor.)						
Chard, Nicholas D., Cincinnati, Ohio. Tool-turret	567,080	Sept. 1	618	143	76	1399
Charleson, William F. (See Fernley and Charleson.)						
Charleston Metallic Packing Company. (See Hughes, Samuel, assignor.)						
Charlier, Henri, Paris, France, assignor to J. G. Hendrickson, Philadelphia, Pa. Smelting-furnace	570,981	Nov. 10	1009	{ 234 235 }	77	855
Charouzek, Rudolph. (See Schlimp and Charouzek.)						
Charrier, Leon C. H., Vendôme, France. Machine for carving straight or curved wood blanks and moldings	553,393	Jan. 21	1635	{ 389 390 391 }	74	334
Charroin, Frank B., assignor of one-half to M. Rumely Company, La Porte, Ind. Pneumatic stacker	566,841	Sept. 1	180	41	76	1316
Chartener, Victor, Pittsburg, Pa. Truck	572,104	Dec. 1	15	4	77	1281
Charter, John J., Sterling, Ill. Gas-engine	573,762	Dec. 22	3007	{ 712 713 }	77	1902
Chase, Andrew J. (See Chase, Confucius and A. J.)						
Chase, Andrew J., Boston, Mass. Grocery show-case	558,158	Apr. 14	1153	282	75	235
Chase, C. D. & C. S. (See Adams, James F., assignor.)						
Chase, Charles H., Newport, R. I. Coffee-pot	573,440	Dec. 22	2435	577	77	1793
Chase, Confucius and A. J., Boston, Mass. Apparatus for distilling water	558,775	Apr. 21	2212	533	75	449
Chase, Frank, Waterville, Me. Press	558,011	Apr. 7	894	225	75	167
Chase, Frank, Waterville, Me., assignor of two-thirds to G. McKay, Newport, R. I. Last.	565,531	Aug. 11	1080	259	76	836
Chase, Frank, Waterville, Me., assignor to Chase Lasting Machine Company, Portland, Me., and Boston, Mass. Lasting-machine	571,339	Nov. 17	1630	387	77	986
Chase, Frank, Waterville, Me., assignor to Chase Lasting Machine Company, Portland, Me., and Boston, Mass. Lasting-machine	571,429	Nov. 17	1772	{ 422 423 424 }	77	1011
Chase, Frank, Waterville, Me., assignor to Chase Lasting Machine Company, Portland, Me., and Boston, Mass. Clamping mechanism for lasting-machines	571,509	Nov. 17	1920	458	77	1038
Chase, Henry L. (See White, James L., assignor.)						
Chase, Joseph H., assignor to Æolian Company, Meriden, Conn. Exhauster or feeder for musical-organ bellows	568,310	Sept. 22	2764	{ 665 666 667 }	76	1839
Chase, Joseph H., Meriden, Conn., assignor to Æolian Company, New York, N. Y. Organ	570,200	Oct. 27	2606	699	77	532
Chase, Joseph H., Meriden, Conn., assignor to Æolian Company, New York, N. Y. Tempo indicator and governor for musical instruments	571,746	Nov. 24	2341	560	77	1135
Chase, Josiah B., Newton, Mass. Fastener for gloves	558,012	Apr. 7	896	225	75	168
Chase Lasting Machine Company. (See Chase, Frank, assignor.)						
Chase Lasting Machine Company. (See Dunphy, James A., assignor.)						
Chase Lasting Machine Company. (See Ray, Charles O., assignor.)						
Chase Lasting Machine Company. (See Willard, George A., assignor.)						
Chase, Lee L., assignor to Star Suction Washer Company, Sandy Hill, N. Y. Washing-machine	564,003	July 14	1348	314	76	266
Chase Machine Company. (See Newell, Charles E., assignor.)						
Chase, Milton, et al. (See Winn, Alby C., assignor.)						
Chase, Milton, and M. H. Foster, Haverhill, assignors to A. S. Vose, Boston, and C. E. Kennard, Longwood, Mass. Skiving-machine	572,083	Nov. 24	2960	696	77	1251
Chase, Rodney G., assignor to Q. & C. Company, Chicago, Ill. Guide-bracket for sliding doors	559,568	May 5	373	90	75	755
Chase, Solon, Denver, Colo. Repair-clamp for spectacles	555,496	Mar. 3	24	6	74	1134
Chatham, Robert J. (See Ryall and Chatham.)						
Chattillon, George H., New York, N. Y. Scale-pan	559,363	May 5	25	7	75	685
Chattanooga Plow Company. (See Hickman, Edgar M., assignor.)						
Chatterton, Clarence D., St. Paul, Minn. Runner for bicycle-wheels	565,067	Aug. 4	178	42, 43	76	650
Chavanne, Andre, Grass Valley, Cal. Shifting apparatus	570,623	Nov. 3	381	91	77	708
Chavanne, Andre, Grass Valley, Cal. Water-wheel bucket	571,510	Nov. 17	1921	458	77	1038
Chavez, Augustin M., Mexico, Mexico. Car-fender	556,619	Mar. 17	2059	481	74	1546
Chevez, Rafael J., and C. C. Herman, Pana, Ill. Apparatus for producing ornamental surfaces	573,206	Dec. 15	1971	475	77	1691

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Chazotte, Jean F., Montreal, Canada. Fire-escape ladder	572,244	Dec. 1	261	63	77	1328
Checkley, Richard S., New York, N. Y. Life-line or safety device	560,391	May 19	1928	441	75	1106
Chedister, Winfield S., Newark, N. J. Permutation-lock	555,474	Feb. 25	2986	711	74	1111
Cheek, Rolie M., and M. G. Logan, Tropic, Ga. Pea huller and separator	565,724	Aug. 11	1428	348	76	902
Cheek, William B. (See Smiley and Cheek.)						
Cheeseman, William E., Monroe, N. J. Planting-machine	570,905	Nov. 10	884	206	77	831
Chemische Fabrik auf Actien, vormals E. Schering. (See Hauser, Gustav C. F., assignor.)						
Chemische Werke, vormals H. & E. Albert. (See Albert, Heinrich, assignor.)						
Chenault, Harvey, Richmond, Ky. Device for relieving animals from flies	562,758	June 23	2960	{ 716 717 }	{ 75 77 }	1988 283
Cheney, Danforth, Brookfield, Mo. Stand-pipe and watering-crane	569,542	Oct. 13	1411	{ 333 334 }	{ 77 77 }	283
Cheney, James W., <i>et al.</i> (See Howe, Solon G., assignor.)						
Cheney, Thomas J., <i>et al.</i> (See Sebastian, Charles, assignor.)						
Chenoweth, Edward. (See Lankford, William J., assignor.)						
Chernic, Marcus, Philadelphia, Pa. Button-drilling machine	556,734	Mar. 24	2241	524	74	1598
Cherry, Felix F., Aurora, N. C. Hame-hook	571,894	Nov. 24	2614	619	77	1186
Cherry, Howard H., Syracuse, N. Y. Sanitary chamber pail or vessel	558,040	Apr. 14	958	235	75	198
Cherry, Theron E., Buckhannon, W. Va. Screen for ladies' bicycles	557,488	Mar. 31	3581	857	74	1871
Cherry, Thomas E., Bath, Me. Chuck	566,725	Aug. 25	3170	775	76	1265
Chesebro, Eugene L., Springfield, Mass. Catapult	565,259	Aug. 4	595	140	76	724
Chesebrough, Harriet E., <i>et al.</i> (See Richardson, Lewis C., assignor.)						
Chesney, Cummings C. (See Kelly, John F., assignor.)						
Chesney, Cummings C. (See Kelly and Chesney.)						
Chesney, Cummings C. (See Kelly, Chesney, and Power.)						
Chesney, Cummings C., and J. F. Kelly, assignors to Stanley Electric Manufacturing Com- pany, Pittsfield, Mass. System of electrical distribution	571,300	Nov. 10	1565	372	77	959
Chesney, Oliver M., Topeka, Kans. Indicator for bottles	568,663	Sept. 29	3421	818	76	1975
Chesney, Oliver M., Topeka, Kans. Combination-tool	569,955	Oct. 20	2177	517	77	437
Chesney, Oliver M., assignor of one-half to J. M. March and H. D. Booge, Topeka, Kans. Corset-clasp	561,761	June 9	1257	299	75	1633
Chesnut, Granville R., Spirit Lake, Iowa. Washing-machine	567,703	Sept. 15	1690	407	76	1624
Chevrier, Robert S., Trenton, N. J. Pencil-sharpener	555,497	Mar. 3	25	0	74	1135
Chevrier, Robert S., Trenton, N. J. Flagstaff-holder	557,969	Apr. 7	793	189	75	149
Chicago Brake and Manufacturing Company. (See Park, Harvey S., assignor.)						
Chicago Camera Company. (See Willis, Henry E., assignor.)						
Chicago Cane Seating Company. (See Powers, Edwin H., assignor.)						
Chicago Cotton Picker Company. (See Turner, William A., assignor.)						
Chicago Daily News. (See Stone, Allison R., assignor.)						
Chicago Hardware Manufacturing Company. (See Lovejoy, Thomas H., assignor.)						
Chicago Hardware Manufacturing Company. (See Sedgwick, Earl P., assignor.)						
Chicago Last and Die Company. (See Decker, Millard F., assignor.)						
Chicago Pressed Steel Company. (See Lamb, Edward L., assignor.)						
Chicago Railway Equipment Company. (See Robischung, Henry B., assignor.)						
Chicago Regulator Company. (See Wright, George W., assignor.)						
Chicago Rockford Hosiery Company. (See Harbaugh, Howard E., assignor.)						
Chicago Stamping Company. (See Benson, Andrew, assignor.)						
Chicago Stamping Company. (See Hubbard, Henry, assignor.)						
Chicago Telephone Company. (See Barrett, Max E., assignor.)						
Chichester, Lemuel A., Phenicia, assignor to Chichester Manufacturing Company, New York, N. Y. Convertible chair	571,038	Nov. 10	1112	260	77	874
Chichester Manufacturing Company. (See Chichester, Lemuel A., assignor.)						
Chickering & Sons. (See Cummings, Henry H., assignor.)						
Chilcote, James W., <i>et al.</i> (See Frick, Henry L., assignor.)						
Chilcote, Nathaniel, and C. Leffler, Johnstown, Pa. Horseshoe	565,960	Aug. 18	1856	451	76	1001
Chilcott, Reuben J., Beaver, Okla. Ter. Stirrup	567,334	Sept. 8	1074	257	76	1493
Child, Brainerd W., assignor to Economic Machine Company, New York, N. Y. Paper- feeding machine	567,261	Sept. 8	922	{ 220 221 }	{ 76 76 }	1466
Child, Brainerd W., assignor to Economic Machine Company, New York, N. Y. Auto- matic stop mechanism for paper-feeding or other machines	567,262	Sept. 8	923	221	76	1466
Child, Brainerd W., Boston, J. Keating, Lawrence, Mass., and M. B. Foy, New York, N. Y., assignors to Economic Machine Company, of New York. Sheet-separating machine	567,263	Sept. 8	928	{ 221 222 }	{ 76 76 }	1467
Child, Brainerd W., M. B. Foy, New York, and F. M. Leavitt, Brooklyn, assignors to Eco- nomic Machine Company, New York, N. Y. Paper-feeding machine	567,264	Sept. 8	931	222	76	1467
Childers, William L. (See Parkinson, Childers, Hanson, and Wakefield.)						
Childrey, Benjamin D., Philadelphia, Pa. Automatically-feeding furnace	574,190	Dec. 29	3829	{ 913 914 915 }	{ 77 77 }	2065
Childs, Ebenezer M., Elgin, Ill. Carpet-fastener	553,151	Jan. 14	1200	292	74	241
Childs, Eugene, Revere, assignor to Automatic Rapid Lathe Company, Boston, Mass. Lathe. (Reissue)	11,554	July 7	820	196	76	153
Childs, Merrick E., West Liberty, Iowa. Machine for providing picture-mats with ovalar or elliptical openings	553,278	Jan. 21	1450	349	74	300
Childs, Orlando J., Utica, N. Y. Harrow	571,895	Nov. 24	2615	619	77	1186
Childs, Samuel S., East Orange, N. J. Combined bookcase and table-leaf receptacle	566,658	Aug. 25	3051	745	76	1245
Childs, William A. (See Durant, Dean, and Childs.)						
Chillberg, Henry H., Chicago, Ill. Toilet-paper holder	557,553	Apr. 7	35	10	75	8
Chilton, Franklin H. (See Brandenburg and Chilton.)						
Chilton, George O. (See Wilson, Lewis O., assignor.)						
Chinnock, George H., Brooklyn, N. Y., assignor, by mesne assignments, to Self-Healing Pneumatic Tire Company, of New York. Pneumatic tire	560,192	May 19	1556	353	75	1042
Chipman, Elisha B., Savannah, Ga. Portable cooker	558,776	Apr. 21	2214	533	75	449
Chisholm, Boyd & White Company. (See Youngren, Peter L., assignor.)						
Chism, David E., Stafford, Conn. Cash-carrier	572,407	Dec. 1	579	138	77	1388
Chisolm, William G., assignor of one-half to T. L. Dodd, Charleston, S. C. Transferring device for knitting-machines	571,554	Nov. 17	1999	475	77	1051
Chittenden, George B. (See Ladd, Story B., assignor.)						
Chittenden, Giles E., Niles, Cal. Ladder	572,693	Dec. 8	1068	260	77	1501
Chivers, Roland M., Fall River, Mass. Dental disk-holder	552,514	Jan. 7	22	7	74	7
Chivers, William, Bristol, England. Clip	560,342	May 19	1835	418	75	1089
Chloride Electrical Storage Syndicate. (See Rhodin, John G. A., assignor.)						
Choate, Charles F., assignor of one-half to A. Robinson, Benicia, Cal. Bicycle-brake	559,996	May 12	1188	264	75	922
Choate, Charles N., assignor of one-half to E. J. Gordon, Greenville, Mich. Seed-bag	554,412	Feb. 11	1099	256	74	724
Choate, Charles N., assignor of one-half J. H. Serviss, Greenville, Mich. Lid-support	560,838	May 26	2745	629	75	1274

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Choate, Charles N., assignor to A. J. Colburn and Gordon Hollow Blast Grate Company, Greenville, Mich. Potato-planter.....	556,134	Mar. 10	1154	271	74	1363
Choate, Walter A., <i>et al.</i> (See Harpold, Adm'n, assignor.)						
Chockley, William B., Denver, Colo. Electric indicator for hot journal-boxes.....	557,650	Apr. 7	233	57	75	44
Chollar, Byron E., St. Louis, Mo. Meter-testing machine.....	565,838	Aug. 11	1620	396 397	76	937
Chope, Robert L., Detroit, Mich. Manufacture of coin-cases.....	559,263	Apr. 28	3129	756 757	75	639
Chormann, Alvin W., assignor to M. R. Chormann, Washington, Pa. Station-indicator.....	560,343	May 19	1836	418	75	1089
Chormann, Mollie R. (See Chormann, Alvin W., assignor.)						
Chouinard, Anthony. (See Dore, Evariste, assignor.)						
Chouteau Manufacturing Company. (See Chouteau, Pierre, assignor.)						
Chouteau Manufacturing Company. (See Rinsche, Frank C., assignor.)						
Chouteau, Pierre, St. Louis, Mo., assignor to Chouteau Manufacturing Company, of Missouri. Attachment for engines.....	568,715	Sept. 29	3503	838	76	1991
Chouvelon, Alphonse M., assignor to H. Rigby, Paterson, N. J. Shuttle bow or conductor.....						
Chretien, Casimir, Manville, R. I. Combination-square.....	573,861	Dec. 29	3192	760	77	1950
Christ, August, Greene, Germany. Bedstead.....	557,302	Mar. 31	3255	780	74	1808
Christ, Edward M., Pine Grove, Pa. Drinking-fountain.....	561,489	June 2	761	186	75	1513
Christ, Jacob, Brooklyn, assignor, by mesne assignments, of one-half to M. Wisel and C. Ohl, New York, N. Y. Folding bed.....	568,835	Oct. 6	202	49	77	40
Christensen, Charles. (See Dahlerup, Ursula S. S., assignor.)	554,653	Feb. 18	1519	359	74	819
Christensen, Christ, Oakland, Cal. Spool-box.....	559,364	May 5	26	7	75	685
Christensen, Niels A., Milwaukee, Wis. Air-pump valve.....	572,192	Dec. 1	166	40	77	1310
Christensen, Thomas. (See Groden and Christensen.)						
Christenson, George C., Newberg, Oreg. Landside for plows.....	566,659	Aug. 25	3052	746	76	1245
Christian, Wilhelm M. (See Jokl and Christian.)						
Christian, William, East Orange, assignor of one-third to I. Gaston, Newark, N. J. Car-fender.....	562,457	June 23	2443	593	75	1890
Christian, William R., <i>et al.</i> (See Munden, Joseph, assignor.)						
Christiansen, Emil, assignor of one-tenth to E. C. Fritsche, Leavenworth, Kans. Pneumatic tire.....	557,970	Apr. 7	794	189	75	149
Christiansen, John, assignor of one-half to W. A. Lorenz, Hartford, Conn., and H. T. Brück, Mount Savage, Md. Railway-switch.....	558,600	Apr. 21	1915	466	75	394
Christiansen, John, assignor of one-half to W. A. Lorenz, Hartford, Conn., and H. T. Brück, Mount Savage, Md. Railway-switch.....	559,481	May 5	231	52	75	727
Christiansen, John, and R. W. Pittman, Hartford, Conn., said Christiansen assignor to said Pittman. Bracket for pendent electric-light globes.....	570,452	Nov. 3	18	4	77	642
Christiansen, John, Quincy, A. Burnham, Boston, and J. A. Duggan, Quincy, Mass. Motor, locomotive, or car wheel.....	563,447	July 7	360	83	76	70
Christiansen, Olaf, St. Paul, Minn. Wheel-plow.....	556,735	Mar. 24	2243	524 525	74	1599
Christianson, Christian J., Brooklyn, N. Y. Window-shutter.....	558,159	Apr. 14	1154	282	75	236
Christianson, Theodore R. C., Leith, Scotland. Storing eggs and apparatus for turning them to keep them fresh.....	559,676	May 5	550	128 129	75	787
Christie, Gamaliel R. (See Greene, Edward E., assignor.)						
Christie, John T., Troy, N. Y. Slide-gate valve.....	559,677	May 5	551	129	75	788
Christie, Thomas S., <i>et al.</i> (See Ward, Alexander F., assignor.)						
Christoph, George W. (See Lynch and Christoph.)						
Christopher, Calvin F., assignor of one-third to H. E. Ravenel, Spartanburg, S. C. Fly-trap.....	554,654	Feb. 18	1522	359 360 607	74	820
Christopher, James H., assignor of one-half to J. H. Edwards, Morrisonville, Ill. Gate.....	560,776	May 26	2646	608	75	1254
Christopher, Starling K. (See Spain and Christopher.)						
Christopher, William O., Hillsborough, Tex. Telephone attachment.....	573,441	Dec. 22	2436	577	77	1793
Crittton, James M. (See Goodner and Crittton.)						
Chunn, Charles M., Powersville, Ga. Fish-plate and coupling for railway-rails.....	573,442	Dec. 22	2437	578	77	1794
Church, Benjamin S., New York, N. Y. Process of and apparatus for filtering.....	560,777	May 26	2648	608	75	1254
Church, Benjamin S., New York, N. Y. Pump.....	568,742	Oct. 6	47	11, 12	77	12
Church, Duane H., Newton, Mass. Staking-machine.....	553,221	Jan. 14	1328	322	74	263
Church, Duane H., Newton, Mass. Fluid-controlled clutch mechanism.....	555,036	Feb. 18	2185	520	74	944
Church, Duane H., Newton, Mass. Watch-dial fastener.....	556,303	Mar. 10	1497	347	74	1426
Church, Edgar D. (See McGregor and Jackson, assignors.)						
Church, Isaac, Toledo, Ohio. Anchor.....	557,361	Mar. 31	3360	807	74	1830
Church, Isaac, Toledo, Ohio. Expansion-bolt.....	570,786	Nov. 3	668	153	77	761
Church, Milton, Little Rock, Ark. Fire-escape.....	557,971	Apr. 7	794	189 190	75	150
Church, Zela A. (See Ellis, Thomas B., assignor.)						
Churchill, Henry P., assignor to A. S. Wilcox and J. M. Adams, Deering, Me. Receiving and delivering spout for toothpick-machines.....	570,744	Nov. 3	602	138	77	749
Churchward, George J., Swindon, England. Material for applying oil to axle-bearings.....	560,689	May 26	2496	573	75	1226
Chute, Clarence A., Chicago, Ill. Regulating-socket for electric lamps.....	566,892	Sept. 1	264	61	76	1333
Chute, John W., assignor of one-half to J. White, Jan José, Cal. Automatic electric releasing device.....	552,954	Jan. 14	870	211	74	177
Chute, William Y. (See Travis, Charles L., assignor.)						
Cigrand, Bernard J. (See Schwartz and Cigrand.)						
Cilley, Harry E. (See Judd and Cilley.)						
Cincinnati Milling Machine Company. (See Holz, Frederick, assignor.)						
Cinnamon, John, New Brighton, N. Y. Device for heating and ventilating rooms or houses.....	558,777	Apr. 21	2215	533	75	449
Ciocki, Johan, New York, N. Y. Buffer for vessels.....	558,482	Apr. 21	1719	416	75	358
Cisco, Elmer E. (See Hearne and Cisco.)						
City Metal Works. (See Munro, William, assignor.)						
Clabron, Joseph, Lexington, Ky. Fire escape and extinguisher.....	560,474	May 19	2074	472	75	1131
Clafin, Albert B., Staples, Minn. Tool for stovepipes.....	554,982	Feb. 18	2079	495	74	926
Clafin, Anna J. (See Clafin, George D., Jr., assignor.)						
Clafin, George D., Jr., Toledo, assignor to American Rail Joint and Manufacturing Company, Cleveland, Ohio. Rail-joint.....	560,971	May 26	2986	685	75	1319
Clafin, George D., Jr., assignor to A. J. Clafin, Toledo, Ohio. Laying railway-tracks.....	560,972	May 26	2988	686	75	1319
Clair, Edward A., Camden, N. J. Non-refillable bottle.....	556,003	Mar. 10	901	215	74	1319
Clancy Brothers. (See McGraw, Thomas F., assignor.)						
Clancy, William. (See Farrell and Clancy.)						
Clapham, John. (See Jefferson, Lishman, and Clapham.)						
Clapp, Dwight C., Owosso, Mich. Driving-mitten.....	557,362	Mar. 31	3361	807	74	1830

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Clapp, Frank O., and J. C. Bailey, Scituate, Mass. Draft-frame for two-wheeled carts.....	562,355	June 16	2274	552	75	1841
Clapp, Frederick, Miller's Falls, Mass. Mouthpiece for reed-instruments.....	554,242	Feb. 11	800	183	74	667
Clapp, John W., Brockton, Mass. Meat-press.....	561,091	June 2	27	7, 8	75	1372
Clapper, Jacob B. (See Hagey, George W., assignor.)						
Clare, James. (See Webb and Clare.)						
Clare, Walter F., Medford, Mass. Traveler for apparatus for raising and moving material.	563,448	July 7	360	83	76	70
Clarenbach, Louis, Jr., Philadelphia, Pa., assignor to H. M. Hasenclever, Jersey City, N. J. Compound napping-machine.....	559,997	May 12	1189	264	75	922
Clark, A. D., et al. (See Byrd, Walter M., assignor.)						
Clark, Albert M., Ann Arbor, Mich. Valve.....	563,742	July 14	857	{ 203 204 }	76	177
Clark, Alfred J., Lenox, Mass. Horseshoe.....	573,503	Dec. 22	2544	603	77	1813
Clark, Alfred L., Dubuque, Iowa. Device for operating roller-awnings.....	559,678	May 5	553	129	75	788
Clark, Alfred L., Dubuque, Iowa. Bottle.....	569,615	Oct. 20	1565	367	77	327
Clark, Allen L., Jackson, Tenn. Implement for removing curbs or tubes from the ground.	559,932	May 12	1074	239	75	897
Clark, Allison N., Plainville, Conn. Gumming-tool for mending pneumatic tires.....	559,120	Apr. 28	2821	683	75	585
Clark, Benjamin F. (See Sweeney and Clark.)						
Clark, Charles. (See Clark, John A. and C.)						
Clark, Charles F., assignor to Clark Manufacturing Company, Boston, Mass. Boot or shoe tree.....	569,857	Oct. 20	2004	478	77	405
Clark, Charles H., Rochester, N. Y., assignor to Bunker Saddle Company, Chicago, Ill. Bicycle-seat.....	568,474	Sept. 29	3044	731	76	1905
Clark, Charles R. (See Hammers and Clark.)						
Clark, Chester H., Chicago, Ill. Lubricator-filler.....	555,926	Mar. 10	754	182	74	1290
Clark, Daniel J. (See Eldridge, Clark, and Wambaugh.)						
Clark, David K., assignor of one-half to D. Nitrauer, Upper Sandusky, W. R. and E. H. Conaway, Caledonia, Ohio. Car-coupling.....	559,772	May 5	729	174	75	820
Clark, Eddy L., Philadelphia, Pa. Apparatus for treating garbage, &c.....	565,669	Aug. 11	1323	{ 319 320 }	76	682
Clark, Edward M. (See Gallien, Peter, assignor.)						
Clark, Ezra E., Northampton, Mass. Hot-water heating apparatus.....	557,189	Mar. 31	3040	{ 727 728 }	74	1770
Clark, Francis L. (See Bayley and Clark.)						
Clark, Frank B. (See Robbins, George A., assignor.)						
Clark, Fred D., McDonald, Pa. Ice-cream mold and dipper.....	571,188	Nov. 10	1375	321	77	922
Clark, Frederic A., Portland, Me. Checking device for horses.....	565,430	Aug. 11	865	204	76	797
Clark, Frederic A., Portland, Me. Curb-bit.....	565,431	Aug. 11	866	205	76	797
Clark, Frederic A., Portland, Me. Cheek-piece for bridle-bits.....	565,432	Aug. 11	867	205	76	797
Clark, Frederic A., Portland, Me. Wagon for training horses.....	566,560	Aug. 25	2917	712	76	1219
Clark, Frederick O., et al. (See Holley, Seymour H., assignor.)						
Clark, George F., Albany, N. Y. Apparatus for sawing stone.....	558,482	Apr. 21	1721	416	75	358
Clark, George H., Boston, Mass., assignor to Hub Treeling Machine Company, Portland, Me. Machine for treeling or shaping boots or shoes.....	564,407	July 21	2053	481	76	410
Clark, George L. (See Pratt, Jesse, assignor.)						
Clark, George P., Alexandria, Va. Non-fillable bottle.....	560,571	May 19	2227	509	75	1159
Clark, George S. (See Holmes, Frederick S., assignor.)						
Clark, George V. B., Valatie, N. Y. Baiting.....	558,352	Apr. 14	1473	362	75	296
Clark, Harlow C., Philadelphia, Pa. Penholder.....	554,503	Feb. 11	1248	292	74	752
Clark, Henry, Stockton-on-Tees, England. Apparatus for raising or lowering weights.....	561,490	June 2	761	186	75	1513
Clark, Henry A., trustee. (See Ray, Forest A., assignor.)						
Clark, Horace L., Beaver Dam, Wis., assignor of one-fourth to A. Armstrong, Albert Lea, Minn. Tablet-compressing machine.....	573,443	Dec. 22	2438	{ 578 579 }	77	1794
Clark, J. M. (See Boyce, Darwin C., assignor.)						
Clark, J. V. (See Hulme, William A. and T. B., assignors.)						
Clark, James G. (See Swaim and Clark.)						
Clark, James W., assignor to Clark Manufacturing Company, Janesville, Wis. Car for cash-carriers.....	560,344	May 19	1837	418	75	1089
Clark, Jasper. (See Lake and Clark.)						
Clark, John A. (See Wyman and Clark.)						
Clark, John A., assignor to Crompton Loom Works, Worcester, Mass. Loom-reed.....	562,757	June 23	2958	716	75	1988
Clark, John A. and C., assignors to Crompton Loom Works, Worcester, Mass. Loom-reed.....	570,381	Oct. 27	2970	704	77	599
Clark, John B., New York, N. Y., assignor of one-half to F. W. Lyman, Minneapolis, Minn. Means for converting wave motion into power.....	571,511	Nov. 17	1922	459	77	1039
Clark, John C., Atlanta, Ga. Pulverizing-machine.....	561,491	June 2	762	187	75	1514
Clark, John E., assignor to H. Techentin, Indianapolis, Ind. Harness.....	566,498	Aug. 25	2825	688	76	1200
Clark, John H., assignor to Whittier Machine Company, Boston, Mass. Circuit-controlling device.....	563,743	July 14	859	205	76	177
Clark, John H., assignor to Whittier Machine Company, Boston, Mass. Elevator mechanism.....	573,809	Dec. 22	3083	{ 732 733 }	77	1916
Clark, John N., Lake Worth, Fla. Cap or nipple for mucilage-bottles.....	567,704	Sept. 15	1691	407	76	1624
Clark, Joseph, San Francisco, Cal. Self-closing safety gas-cock.....	552,704	Jan. 7	356	93	74	69
Clark, Joseph H., Sidney, N. Y. Glove.....	559,679	May 5	555	129	75	788
Clark, Joseph H., Deering, Me. Pianoforte.....	571,645	Nov. 17	2145	515	77	1079
Clark, Josiah, Boston, Mass. Process of and apparatus for molding soap.....	567,734	Sept. 15	1742	{ 417 418 }	76	1634
Clark, Josiah B., Youngstown, Ohio. Grain-scouring machine.....	555,927	Mar. 10	756	183	74	1290
Clark, Julian W. (See Lewis and Clark.)						
Clark, Kate E., et al. (See Reid, Jennie, assignor.)						
Clark, Leander, Greenville, Ohio. Gate.....	567,535	Sept. 8	1397	336	76	1552
Clark, Leander, Greenville, Ohio. Gate.....	569,858	Oct. 20	2006	{ 478 479 }	77	406
Clark, Leroy. (See Conner and Clark.)						
Clark, Lew B., et al. (See Rose, Preston B., assignor.)						
Clark, Louie H. (See Kent and Clark.)						
Clark, Louie H., Fond du Lac, Wis. Temporary binder.....	570,541	Nov. 3	192	51	77	673
Clark, Louie H., Fond du Lac, Wis., assignor to American Metallic Packing Company, New York, N. Y. Piston-rod packing.....	557,107	Mar. 31	2888	690	74	1744
Clark, Louie H., and E. A. Munger, Fond du Lac, Wis., assignors to W. T. Allen and A. C. Ewen, Brooklyn, N. Y. Bicycle-lock.....	568,742	Oct. 6	50	12	77	13
Clark Manufacturing Company. (See Clark, Charles F., assignor.)						
Clark Manufacturing Company. (See Clark, James W., assignor.)						
Clark, Merrill E., Worcester, Mass. Apparatus for compressing air.....	558,041	Apr. 14	961	235	75	198

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Clark, Merrill E., Worcester, Mass. Burnishing-machine.....	570,866	Nov. 3	810	{ 185 186 187 }	77	789
Clark, Merrill E., Worcester, Mass. Machine for finishing stock.....	570,867	Nov. 3	814	{ 187 188 369 }	77	790
Clark, Merrill E., Worcester, Mass. Rotary engine.....	572,961	Dec. 15	1544	{ 370 }	77	1610
Clark, Michael J. (See Feather and Clark.)						
Clark, Peter, New York, N. Y. Friction sash-balance.....	572,049	Nov. 24	2869	674	77	1235
Clark, Prudence M. (See Hurlbut, Frank, assignor.)						
Clark, Robert F., Vicksburg, Mich. Screw-eye bedstead-clamp.....	566,742	Sept. 1	18	5	76	1284
Clark, Robert P., Milwaukee, Wis. Abutment-guard mechanism for bridges.....	557,106	Mar. 31	2886	690	74	1744
Clark, Samuel S., Akron, Ohio. Hot-air deflector.....	554,909	Feb. 18	1957	460	74	903
Clark, Stuart F. (See Schuman, Jacob L., assignor.)						
Clark, T. S. (See Barry, Jefferson D., assignor.)						
Clark, Theodore. (See Newton, Stephen S., assignor.)						
Clark, Thomas, Quincy, Ill. Tobacco-cutter.....	568,296	Sept. 22	2740	658	76	1834
Clark, W. D., et al. (See Byrd, Walter M., assignor.)						
Clark, Walter C. (See Cluxton, James R., assignor.)						
Clark, Walter E., Picture Rocks, assignor of one-half to L. M. White, Bloomsburg, Pa. Swing.....	560,609	May 19	2296	526	75	1172
Clark, Walton, and R. Norris, assignors to United Gas Improvement Company, Philadelphia, Pa. Apparatus for making gas.....	552,889	Jan. 14	741	181	74	153
Clark, William, Newark, N. J., assignor to William Clark Company, Newark, N. J., and Stonington, Conn. Core or spool for balls of thread.....	555,498	Mar. 3	25	7	74	1135
Clark, William B. (See Bennett and Clark.)						
Clark, William B. (See Norlund, Olof A., assignor.)						
Clark, William H., Providence, R. I. Bicycle-tire cleaner.....	572,355	Dec. 1	475	111	77	1369
Clark, William H., Erie, Pa., assignor to Rochester Cash Register Company, of New York. Cash register, indicator, and recorder.....	556,045	Mar. 10	985	{ 236 237 }	74	1332
Clark, William H. and W. J., Salem, Ohio. Die for drop-presses.....	555,363	Feb. 25	2779	651	74	1072
Clark, William J. (See Clark, William H. and W. J.)						
Clark, Zachariah T., and J. R. Neill, Portland, Oreg. Liquid compound used for tempering and toughening steel, iron, or other metals.....	571,646	Nov. 17	2146		77	1079
Clarke, Alexander, Brooklyn, N. Y. Faucet.....	571,065	Nov. 10	1152	269	77	882
Clarke, Alfred, Sydney, New South Wales. Instrument for determining errors of refraction in eyes.....	564,145	July 14	1599	{ 374 375 }	76	315
Clarke, Arthur R., assignor of one-half to L. Evans, Chicago, Ill. Safety device for elevators.....	568,521	Sept. 29	3154	759	76	1924
Clarke, Charles J., Kingsburg, Cal. Sash-fastener.....	572,408	Dec. 1	580	138	77	1388
Clarke, George R., Montell, Tex. Hat-pouncing machine.....	556,400	Mar. 17	1671	{ 389 390 }	74	1474
Clarke, Harry, assignor of one-half to E. A. Hall, New York, N. Y. Horse-collar.....	559,072	Apr. 28	2731	664	75	564
Clarke, Henry B., Chicago, Ill. Acetylene-generator and bicycle-lamp.....	566,660	Aug. 25	3053	746	76	1246
Clarke, Hopewell. (See Martin, Ralph, assignor.)						
Clarke, Joseph T., Boston, Mass. Pack of photographic films.....	571,470	Nov. 17	1843	439	77	1024
Clarke, Mary, New York, N. Y. Safety-envelope.....	561,762	June 9	1258	300	75	1633
Clarke, T. E., et al. (See Williams, Frederick W., assignor.)						
Clarke, William C. (See Esmond, Ernest R., assignor.)						
Clarke, William C., New York, N. Y. Manufacture of carbide of calcium.....	552,890	Jan. 14	743	181	74	153
Clarke, William C., New York, N. Y. Method of and apparatus for generating acetylene.....	556,736	Mar. 24	2244	525	74	1599
Clarke, William C., New York, N. Y. Generating illuminating-gas.....	556,737	Mar. 24	2247	525	74	1600
Clarke, William E., and J. W. McEachron, Cleveland, Ohio. Furnace for pulverized fuel.....	573,862	Dec. 29	3194	760	77	1950
Clarkson, Eugene C., Cleveland, Ohio. Car-dumping machinery.....	556,458	Mar. 17	1785	{ 413 414 }	74	1496
Clarkson, Frank S., Baltimore, Md. Sash-cord guide.....	557,489	Mar. 31	3582	858	74	1871
Clarkson, Nicholas F., New York, N. Y. Napkin-holder.....	563,566	July 7	567	131	76	106
Clarkson, William, Cleburne, Tex. Pump.....	572,962	Dec. 15	1547	371	77	1611
Clarkson, William, Cleburne, Tex. Hydraulic pump.....	572,963	Dec. 15	1549	371	77	1611
Clarkson, William, Cleburne, Tex. Hydraulic pump.....	572,964	Dec. 15	1551	{ 371 372 }	77	1611
Clasen, John, assignor of one-half to A. Hastrup & Co., Hamburg, Germany. Painters' size.....	570,122	Oct. 27	2470		77	506
Clasen, William, New York, N. Y. Cover for boxes.....	562,577	June 23	2651	642	75	1929
Clason, Martin, Providence, R. I. Snow-guard.....	572,332	Dec. 1	436	102	77	1362
Class, Gustav, Jr. (See Phillips and Class.)						
Class, John F., Pleasant Hill, Ohio. Churn.....	563,222	June 30	3817	914	75	2172
Claus, Max O. (See Püttmann and Claus.)						
Claus, Max O., T. B. Püttmann, and H. E. C. Felix, Leipsic, Germany. Mechanical musical instrument.....	574,240	Dec. 29	3936	936	77	2084
Clausen, Hans O., Chicago, Ill. Match-igniter.....	560,891	May 26	2863	656	75	1295
Claussen, Edward E. (See Lorenz and Claussen.)						
Claussen, Edward E., Hartford, Conn. Screw-machine.....	561,697	June 9	1129	{ 269 270 271 }	75	1609
Claussen, Edward E., Hartford, Conn. Machine for making twist-drills.....	566,966	Sept. 1	397	92, 93	76	1358
Claussen, Edward E., Hartford, Conn. Paper-bag machine.....	574,020	Dec. 29	3486	{ 832 833 569 }	77	2003
Claussen, Ole, assignor of one-half to W. M. Cronan and A. Larson, Nassau, Minn. Fracture apparatus.....	570,085	Oct. 27	2405	{ 570 }	77	494
Claviez, Emil Chemnitz, assignor to Kunstweberei, Claviez & Co., Gesellschaft mit Beschränkter Haftung, Leipsic, Germany. Change-box mechanism for power-looms.....	572,245	Dec. 1	262	63, 64	77	1328
Clawson, Abram L. (See Clawson, Linus G. and A. L.)						
Clawson, Charles H., Everett, assignor to J. W. Wilson, Boston, Mass. Cyclometer.....	569,322	Oct. 13	1050	249	77	216
Clawson, Linus G. and A. L., Pleasant Hill, Mo. Wagon-scale.....	554,983	Feb. 18	2080	495	74	926
Claxton, Langley, assignor of one-fourth to W. P. Herrmann, Paterson, N. J. Pneumatic tire.....	573,444	Dec. 22	2441	579	77	1795
Clay, Francis A., Newfields, N. H. Table-waiter.....	562,169	June 16	1958	475	75	1783
Clay, John H., Philadelphia, Pa. Door opener and holder.....	562,377	June 23	2311	561	75	1865
Claybourne Burner Company. (See Claybourne and Moore, assignors.)						
Claybourne Burner Company. (See Knickerbocker, James B., assignor.)						
Claybourne, Colin W., Indianapolis, Ind. Oil-burner.....	562,576	June 23	2650	642	75	1929
Claybourne, Colin W., Indianapolis, Ind., and M. Moore, Detroit, Mich., assignors to Claybourne Burner Company, Chicago, Ill. Mechanism for burning oil.....	572,866	Dec. 8	1356	328	77	1557
Claypool, William, and C. E. Dooley, Gering, Nebr. Water-elevator.....	572,596	Dec. 8	894	216	77	1468

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Clayton, Americus J., <i>et al.</i> (See Eddy, George W., assignor.)						
Clayton, Austin B., Dover, Mo. Combined trap and grappling device	560,973	May 26	2988	686	75	1319
Clayton, George W., Lebanon, Iowa. Fence-post	574,191	Dec. 29	3837	915	77	2066
Clayton, Horatio C., <i>et al.</i> (See Eddy, George W., assignor.)						
Clayton, John, Minneapolis, Minn. Bob-sleigh	571,647	Nov. 17	2147	515	77	1079
Clayton, Richard, Sedgley, England. Cover for cooking utensils, &c.	561,763	June 9	1260	300	75	1634
Clayton, Richard, Sedgley, England. Cover for vessels, &c.	561,764	June 9	1261	300	75	1634
Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator	555,282	Feb. 25	2634	618	74	1045
Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator	564,738	July 28	2620	625	76	531
Clear, Charles, St. Louis, Mo. Hot-air register	574,135	Dec. 29	3696	880	77	2042
Cleary, James, and T. M. Miller, Paterson, N. J. Wire rod for jacquard-cards	573,813	Dec. 22	3090	734	77	1918
Cleasby, Alice F., <i>et al.</i> (See Cleasby, William H., assignor.)						
Cleasby, William H., assignor to A. F. Cleasby, Hartford, Conn., and J. B. Chapman & Co., Springfield, Mass. Cash register and indicator	571,720	Nov. 17	2271	545	77	1102
Cleathero, Edward T., assignor of one-half to E. W. H. Walker, London, England. Paper-feeding machine	570,000	Oct. 27	2253	534 535 536	77	464
Cleaveland, Elisha B., Snohomish, Wash. Bow-facing oar	562,510	June 23	2520	612	75	1904
Cleaveland, John B., Indianapolis, Ind. Tool for wiring fences	562,170	June 16	1959	475	75	1783
Cleaveland, Joseph A. (See Brown and Cleaveland.)						
Cleaver, Howard C., London, England. Apparatus for applying paints or varnishes	567,452	Sept. 8	1272	308	76	1529
Clegg, Arthur. (See Whalley, Clegg, Benson, Parratt, and Robinson.)						
Clelland, Harry W., and F. J. Madden, Wilkinsburg, Pa. Automatic electrical battery cut-out	561,565	June 9	903	217	75	1566
Clemens, Ernest V., New York, N. Y., assignor to De La Vergne Bottle and Seal Company, of New Jersey. Machine for making bottle-seal stoppers	557,554	Apr. 7	36	10	75	9
Clément, Adolphe, Paris, France. Manufacture of heads for forks of velocipedes	556,880	Mar. 24	2501	590	74	1647
Clement, Burton H., Chester, assignor of one-half to E. Johnson, Waupun, Wis. Breech-loading firearm	572,290	Dec. 1	359	85	77	1347
Clement, J. I., <i>et al.</i> (See Clement, Robert B., assignor.)						
Clement, John, Birmingham, England. Lead-pencil case	566,444	Aug. 25	2742	665	76	1185
Clement, John F., Philadelphia, Pa., assignor to Clement Pneumatic Tool Company, Camden, N. J. Impact-tool	573,260	Dec. 15	2060	493	77	1707
Clement Pneumatic Tool Company. (See Clement, John F., assignor.)						
Clement, Robert B., Crayneville, assignor of two-thirds to C. J. Pierce and J. I. Clement, Marion, Ky. Hame-hook	559,998	May 12	1193	265	75	922
Clement, William S., Westmont, N. J., and C. F. S. Mann, Philadelphia, Pa.; said Mann assignor to said Clement. Car-fender	553,208	Jan. 14	1312	318	74	260
Clements-Kropp, Charles, Newark, N. J. Musical instrument	572,550	Dec. 8	804	193	77	1447
Clementson, Henry. (See Wilson and Clementson.)						
Clemmer, Joel G., Natrona, Pa. Bottle	554,655	Feb. 18	1524	360	74	820
Clelland, Milton A., assignor of one-fifth to H. Sylvester, San Francisco, Cal. Nut	572,743	Dec. 8	1164	280	77	1519
Clerici, Fabrizio. (See Pelatan and Clerici.)						
Clerk, W. B. (See Henry, George A., assignor.)						
Cléry, Augustin, London, England. Composition of matter for artificial stone	568,239	Sept. 22	2654		76	1817
Cleveland, Eugene W. (See Cleveland, William F. and E. W.)						
Cleveland Foundry Company. (See Drury and Skinner, assignors.)						
Cleveland Foundry Company. (See Whittingham, Charles, assignor.)						
Cleveland, George A., assignor of one-third to E. G. Durfee, Providence, R. I. Ore-pulverizing machine	570,745	Nov. 3	603	138 139	77	749
Cleveland, George W., Little Rock, assignor of one-half to R. D. St. Dennis, Thurston county, Wash. Fire-escape	556,961	Mar. 24	2631	618	74	1670
Cleveland, Henry H., assignor of one-half to J. H. Cleveland, Chicago, Ill. Whip-lock	562,578	June 23	2652	642	75	1929
Cleveland, Jay H. (See Cleveland, Henry H., assignor.)						
Cleveland Machine Screw Company. (See Clyne, James B., assignor.)						
Cleveland Motor Company. (See Saunders, Cecil L., assignor.)						
Cleveland Safety Gate Company. (See Hobbs, John T., assignor.)						
Cleveland, Sylvester E., assignor to D. W. Barningham, Harrison, Ill. Bicycle	565,880	Aug. 18	1706	418	76	971
Cleveland Time Register Company. (See Heene, George W., assignor.)						
Cleveland, William F. and E. W., Rounthwaite, Canada. Steam-engine	553,747	Jan. 28	2253	533	74	464
Clever, Friedrich and M., Hagen, Germany. Lock	555,209	Feb. 25	2504	591	74	1021
Clever, Max. (See Clever, Friedrich and M.)						
Click, Isaac A. (See Click, Washington B. and I. A.)						
Click, Washington B. and I. A., Whitewright, Tex. Quilting attachment for sewing-machines	569,616	Oct. 20	1566	367	77	327
Cliff, Edward, Newark, N. J. Car-truck	553,104	Jan. 14	1134	275	74	227
Cliff, Edward, Newark, N. J. Freight-car truck	555,563	Mar. 3	133	31	74	1155
Cliff, Edward, Newark, N. J. Car-truck	560,779	May 26	2654	609 610	75	1256
Cliff, Edward, Newark, N. J. Car-truck	562,579	June 23	2654	643	75	1929
Cliff, Edward, Newark, N. J. Car-truck	564,363	July 21	1982	465 466	76	395
Cliff, Edward, Newark, N. J. Car-truck frame	567,579	Sept. 15	1488	356 357	76	1584
Cliff, Edward, Newark, N. J. Brake for wheels of railway-cars	568,065	Sept. 22	2342	565	76	1757
Cliff, Edward, Newark, N. J., assignor of one-half to G. R. Joughins, Berkley, Va. Freight-car truck	553,103	Jan. 14	1131	275	74	226
Cliff, Edward, Newark, N. J., assignor of one-half to G. R. Joughins, Berkley, Va. Freight-car truck	560,780	May 26	2657	610	75	1256
Clifford, Charles and F. H., Muscatine, Iowa. Photographic flash-light apparatus	560,778	May 26	2652	609	75	1255
Clifford, Fred H. (See Clifford, Charles and F. H.)						
Clifford, John, assignor to L. Wolff Manufacturing Company, Chicago, Ill. Fixture for bath-tubs	566,561	Aug. 25	2918	712	76	1219
Clifford, Thomas G., assignor of one-half to A. Hartkorn, Jr., Hoboken, N. J. Axle-nut wrench	571,214	Nov. 10	1413	330	77	929
Clifford, Thomas G., assignor of one-half to A. Hartkorn, Jr., Hoboken, N. J. Wheel-drag	572,356	Dec. 1	476	111	77	1369
Clifford, William J., Pittsburg, Pa. Wall-paper trimmer	566,661	Aug. 25	3054	746	76	1246
Clifton, Frederick, St. Louis, Mo. Cash-register	563,843	July 14	1048	247 248	76	211
Clifton, Thomas, assignor of two-thirds to G. P. Giltz, Cincinnati, Ohio, and T. J. Barker, Ludlow, Ky. Track construction and fittings	563,744	July 14	861	205	76	177
Climenson, William W., Honey Brook, Pa. Game apparatus	574,192	Dec. 29	3838	916	77	2066

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Clinch, John C., assignor of one-half to F. S. Tucker, Portland, Me. Tire-bolt cutter.....	554,504	Feb. 11	1249	292	74	752
Cline, Alonzo M., and E. C. Ecker, Stryker, Ohio. Cider-press	555,429	Feb. 25	2896	689	74	1094
Cline, John B., Jefferson, Iowa. Chromatic inking apparatus for printing-presses.....	553,228	Jan. 21	1344	{ 326 327 }	74	281
Cline, Thomas B., <i>et al.</i> (See Gilpin, Albert D., assignor.)						
Cline, William, assignor to D. D. Good and S. B. Bitzer, Lancaster, Pa. Ventilated car...	555,928	Mar. 10	758	183	74	1291
Cline, William, assignor to D. D. Good and S. B. Bitzer, Lancaster, Pa. Stock-car.....	564,303	July 21	1873	{ 440 441 }	76	376
Cline, William M., assignor of one-half to G. N. De Merell, Lansing, Mich. Exhibition apparatus.....	564,971	Aug. 4		21	4, 5	76 621
Cling, William H., Charleston, S. C. Passenger-register.....	569,543	Oct. 13	1414	334	77	283
Clinton, Harmon S., Ancona, Ill. Implement for sharpening disk knives.....	553,279	Jan. 21	1452	349	74	300
Clinton, Homer, Eldora, Iowa. Windmill.....	570,123	Oct. 27	2471	585	77	506
Clinton, James A., Brooklyn, N. Y. Draft-producer.....	560,475	May 19	2075	472	75	1132
Clinton Wire Cloth Company. (See Misroon, John D., assignor.)						
Clizbe, Adelbert R., Chicago, Ill. Grinding-machine.....	567,637	Sept. 15	1583	381	76	1602
Clizbe, Adelbert R., Chicago, Ill. Grinding-machine.....	567,638	Sept. 15	1585	{ 381 382 }	76	1602
Clogg & Co., Fullmer. (See Gochbauer, Harry, assignor.)						
Clopton, Guy. (See Waters and Clopton.)						
Close, Benjamin M., Cato, N. Y. Orchard-ladder.....	571,853	Nov. 24	2529	599	77	1170
Close, Dorri R. (See Cone and Close.)						
Close, Gideon A., Bridgeport, Conn., assignor to G. C. Batcheller, New York, N. Y. Corset.....	561,202	June 2	230	55	75	1412
Closs, Peter, Wollaston Heights, assignor to A. J. Lloyd & Co., Boston, Mass. Eyeglass-case.....	559,438	May 5	162	35	75	712
Closson, John M., assignor of one-half to W. M. Holmes, Hoosick Falls, N. Y. Supply-valve for water-tanks.....	565,881	Aug. 18	1707	418	76	971
Clot, John B., San Francisco, Cal. Can-soldering machine.....	559,073	Apr. 28	2732	{ 664 665 }	75	564
Clot, John B., San Francisco, Cal. Can-soldering machine.....	559,074	Apr. 28	2735	665	75	564
Cloud, John W., Chicago, Ill. Bolster for cars, &c.....	559,365	May 5	27	7	75	686
Cloud, John W., Chicago, Ill. Truck for cars, &c.....	560,258	May 19	1690	385	75	1064
Cloud, John W., Chicago, Ill., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Pipe-coupling.....	567,735	Sept. 15	1745	418	76	1634
Cloud, William H., and V. J. Tull, Kokomo, Ind. Knife-polisher.....	561,765	June 9	1262	301	75	1634
Clough, John, and R. Illingworth, Bradford, England. Gear for bicycles.....	569,706	Oct. 20	1754	{ 416 417 }	77	359
Clouser, Samuel F., assignor of one-fourth to A. K. Sloan, Brooklyn, N. Y. Bicycle driving mechanism.....	562,580	June 23	2656	643	75	1930
Clouston, Samuel J., Brooklyn, N. Y. Leak-alarm.....	571,340	Nov. 17	1631	387	77	986
Clover, Elliot K., Baton Rouge, La. Seeder.....	571,896	Nov. 24	2616	620	77	1186
Clow, George E., Chicago, Ill. Box.....	571,747	Nov. 24	2343	560	77	1135
Cluett, Coon & Co. (See Kennedy, Howard S., assignor.)						
Clune, Michael, and P. Eckel, Syracuse, N. Y. Fence.....	564,591	July 28	2380	560	76	486
Clunie, John S., <i>et al.</i> (See Wilson, Andrew, assignor.)						
Cluthe, Amelia. (See Cluthe, Charles, assignor.)						
Cluthe, Charles, assignor to A. Cluthe, Toronto, Canada. Truss.....	563,449	July 7	361	83	76	70
Cluxton, James R., London, Ohio, assignor of one-half to W. C. Clark, Pewaukee, Wis. Top-spinning toy.....	561,492	June 2	764	187	75	1514
Clyde, Frank, Wellsville, Ohio. Thill-coupling.....	565,331	Aug. 4	699	167	76	715
Clymer, Charles T., <i>et al.</i> (See Conrad, Charles P., assignor.)						
Clyne, James B., assignor to Cleveland Machine Screw Company, Cleveland, Ohio. Machine for making screws, nipples, &c.....	554,812	Feb. 18	1778	419	74	870
Clyne, James B., assignor to Cleveland Machine Screw Company, Cleveland, Ohio. Belt-shifter.....	554,813	Feb. 18	1782	419	74	871
Clyne, James B., assignor to Cleveland Machine Screw Company, Cleveland, Ohio. Machine for making screws, nipples, &c.....	554,814	Feb. 18	1784	{ 420 421 }	74	871
Coakley, Thomas H., assignor of one-fourth to E. M. Mitchell, Baltimore, Md. Self-locking can-top.....	569,088	Oct. 6	640	146	77	123
Coakley, William J., Rockland, Me. Clothes-stick.....	559,264	Apr. 28	3132	757	75	639
Coates, Charles E., and L. Hancock, Woodbridge, N. J. Brick-kiln.....	573,445	Dec. 22	2442	{ 579 580 }	77	1793
Coates, Clarence. (See Chadwick, Cyrus W., assignor.)						
Coates, Clarence L., Bridgewater, Vt. Snow-plow.....	552,891	Jan. 14	744	{ 181 182 }	74	153
Coats, Fred R., Springfield, Ill. Die-stock.....	556,304	Mar. 10	1498	348	74	1426
Cobb, Charles N., <i>et al.</i> (See Shaw, Clarence P., assignor.)						
Cobb, Dewey A., Philadelphia, Pa. Machine for measuring and cutting torsion braided wire into lengths.....	555,638	Mar. 3	268	63	74	1178
Cobb, Dewey A., Philadelphia, Pa. Means for imparting helical forms to wire.....	573,763	Dec. 22	3009	713	77	1902
Cobb, Edward S., San Francisco, Cal. Wheel.....	565,378	Aug. 4	774	124	76	760
Cobb, George W. (See McCawley, Joel A., assignor.)						
Cobb, Henry B., Wilmington, Del. Lead-press.....	558,257	Apr. 14	1321	{ 322 323 }	75	267
Cobb, Leander B., Everett, Mass. Automatic cake-turner.....	557,092	Mar. 24	2861	684	74	1717
Cobb, Samuel C., Janesville, Wis. Cultivator.....	553,760	Mar. 3	459	110	74	1212
Cobb, William, and A. P. Rickmeyer, Perry, N. Y. Stop-motion for knitting-machines.....	565,134	Aug. 4	340	80, 81	76	681
Coburn, Lemuel, Holyoke, Mass. Metallic bedstead.....	554,477	Feb. 11	1210	282	74	745
Coburn, Lemuel, Holyoke, Mass. Trolley-track.....	564,004	July 14	1349	314	76	268
Coburn, Lemuel, Holyoke, Mass. Shelf construction.....	564,005	July 14	1350	314	76	266
Coburn, Lemuel, Holyoke, Mass. Trolley-track and hanger.....	564,868	July 28	2845	682	76	572
Coburn, Robert, New York, N. Y. Hopper or basin for water-closets, washstands, or urinals. Coburn Trolley Track Manufacturing Company. (See Sumner, William J., assignor.)	556,489	Mar. 17	1835	427	74	1506
Cochran, Arthur J., St. Louis, Mo. Bench-clamp.....	557,972	Apr. 7	795	190	75	150
Cochran, Charles J., assignor of one-half to G. H. Flett, Sisson, Cal. Railway-rail joint.....	572,694	Dec. 8	1070	260	77	1502
Cochran, Jacob S., Salina, Kans. Automatic wagon-brake.....	573,446	Dec. 22	2446	581	77	1795
Cochran, James F., North Liberty, Ohio. Adjustable plow-clevis.....	556,401	Mar. 17	1744	390	74	1475
Cochran, James M., Jackson, Tenn. Cotton-condenser.....	572,650	Dec. 8	966	{ 237 238 }	77	1485
Cochran, John C., Ripley, Ohio. Sewing-machine table.....	571,748	Nov. 24	2344	{ 560 561 }	77	1135
Cochran, Martin M. (See Taylor, Cochran, and Adams.)						
Cochran, William R., Jr., Delphos, Ohio. Railway-crossing.....	570,542	Nov. 3	193	51	77	673
Cochrane, David, assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Oil and steam separator.....	557,108	Mar. 31	2889	690	74	1744
Cochrane, David, assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Attachment for steam-separators.....	557,109	Mar. 31	2891	690	74	1744
Cochrane, Douglas M. B. H., London, England. Carriage for quick-firing guns.....	566,138	Aug. 18	2169	528	76	1061
Cochrane, Douglas M. B. H., London, England. Pocket-stove.....	560,662	Aug. 25	3055	746	76	1246

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Cochrane, Philip W., assignor of one-half to H. F. B. Booth and W. G. Rogers, Spring City, Pa. Mechanism for napping fabrics	558,353	Apr. 14	1475	362	75	296
Cochrane, Robert B., Madison, Wis. Drawing-board	565,433	Aug. 11	868	205	76	797
Cocke, John, Greensborough, Ala. Cotton chopper and cultivator	571,648	Nov. 17	2148	{ 515 516 }	77	1079
Cocker, Joseph N., West Devonport, Tasmania. Potato-harvester	553,511	Jan. 28	1836	436	74	388
Cocks, James, Brooklyn, N. Y. Cabinet-bath	557,651	Apr. 7	237	58	75	44
Cocks, Joel N., Stony Creek, Va. Plow attachment	573,504	Dec. 22	2545	603	77	1813
Coder, Harry G., and F. C. Ruffhead, Williamsport, Pa., assignor to Keystone Car Door and Supply Company, Williamsport, Pa., and Chicago, Ill. Car-door	552,821	Jan. 7	608	{ 147 148 }	74	114
Codman & Shurtleff. (See Shurtleff, Asabel M., assignor.)						
Cody, Alfred M., Philadelphia, Pa. Sectional folding table	564,504	July 21	2205	517	76	437
Cody, Miles S., Stockton, Cal., assignor to Universal Mail Equipment Improvement Company. Mail-bag fastener	573,074	Dec. 15	1736	416	77	1648
Cody, Richard D., Winona, Minn. Folding bed	556,576	Mar. 17	1991	{ 465 466 }	74	1534
Cody, Richard D., Winona, Minn. Washer for tool-posts	568,428	Sept. 29	2965	712	76	1891
Coe, Charles T., New York, N. Y. Steam-jet blower	559,075	Apr. 28	2736	665	75	565
Coe, James N. (See Coe, Nelson D., assignor.)						
Coe, John S., Paterson, N. J. Apparatus for heating water	555,675	Mar. 3	333	76	74	1189
Coe, Louis K., Saginaw, Mich. Type-writer	570,453	Nov. 3	21	5	77	642
Coe, Nelson D., New Haven, assignor of one-third to J. N. Coe, Noroton, Conn. Vehicle-wheel	573,764	Dec. 22	3011	713	77	1903
Coerper, Carl, Cologne, Germany. Electric-railway system, &c.	562,216	June 16	2035	491	75	1798
Coffee, John C., assignor of one-half to W. L. Coffee, Decatur, Ind. Lever lifting-jack	554,579	Feb. 11	1370	332	74	777
Coffee, Robert W., assignor to Coffee Stemming Machine Company, Richmond, Va. Tobacco-leaf-stemming machine	569,575	Oct. 13	1491	{ 351 352 353 }	77	297
Coffee Stemming Machine Company. (See Coffee, Robert W., assignor.)						
Coffee, William L. (See Coffee, John C., assignor.)						
Coffey, John R., et al. (See Dyer, Isaac T., assignor.)						
Coffield, Peter T., Springfield, Ohio. Lubricator	571,555	Nov. 17	2000	475	77	1052
Coffin, Charles L., Detroit, Mich. Electric-arc lamp	560,476	May 19	2076	473	75	1132
Coffin, Charles W. (See Jones and Talbot, assignors.)						
Coffits, John, Cedar Rapids, Iowa. Corn-planter	566,842	Sept. 1	181	41, 42	76	1317
Cofield, William O., Piqua, Ohio. Reducing-mill	557,973	Apr. 7	797	190	75	150
Cofran, George W., and W. J. Murray; said Cofran assignor of one-fifth to J. A. Addison, Baltimore, Md. Fire-extinguisher	556,305	Mar. 10	1499	348	74	1426
Coggin, Frank F. (See Whitcomb and Coggin.)						
Coggshall, Henry F., et al. (See Gates, Eugene N., assignor.)						
Coghill, Aaron F. (See Atkinson, Herbert C., assignor.)						
Coghill, Aaron F. (See Atkinson and West, assignors.)						
Cogswell, Aaron. (See Raymond, Henry E., assignor.)						
Cogswell, William G., Los Angeles, Cal. Can-opener	553,105	Jan. 14	1135	276	74	227
Cogniasse, Charles, and D. F. Shultz, San Francisco, Cal. Automatic car-fender	562,171	June 16	1960	475	75	1783
Cohen, Albert A., New York, N. Y. Machine for feeding cardboard, &c.	560,839	May 26	2746	{ 631 632 }	75	1274
Cohen, Cosman H., London, England. Implement for obtaining correct register in color-printing	565,153	Aug. 4	378	87	76	688
Cohen, Rosalie L., Columbus, Ohio. Trunk attachment	562,759	June 23	2961	717	75	1988
Cohen, Samuel. (See Goldenberg, John, assignor.)						
Cohen, Solomon L., St. Louis, Mo. Knife-sharpener	557,051	Mar. 24	2797	665	74	1703
Cohill, Edmund P. (See Seavolt, John W., assignor.)						
Cohn, Charles, Baltimore, Md. Skirt	573,765	Dec. 22	3013	714	77	1903
Cohoon, Steward L., San Francisco, Cal. Sheep-shears	553,954	Feb. 4	281	62	74	556
Coirin, Ferdinand, Paterson, N. J. Non-refillable bottle	559,844	May 12	901	200	75	866
Coit, George H., assignor of one-third to J. E. Dunham, San Jacinto, Cal. Water-heater	558,633	Apr. 21	1967	477	75	404
Coker, James L., Jr., Hartsville, S. C. Apparatus for making bisulfite solutions	572,193	Dec. 1	168	40, 41	77	1310
Colbert, Bettie A. (See Colbert, Joseph W., assignor.)						
Colbert, Joseph W., assignor to B. A. Colbert, Fredericksburg, Va. Car-coupling	555,430	Feb. 25	2898	{ 689 690 }	74	1094
Colburn, Adoniram J., et al. (See Choate, Charles N., assignor.)						
Colburn, Augusta F. S., Philadelphia, Pa. Car-fender	568,191	Sept. 22	2567	618	76	1800
Colburn, George S., Gardner, Mass. Child's carriage	563,567	July 7	568	131	76	106
Colburn, Henry J., assignor of two-thirds to L. H. Colburn, Toledo, Ohio, and I. W. Colburn, Fitchburg, Mass. Safe	568,429	Sept. 29	2965	{ 712 713 }	76	1891
Colburn, Irving W., et al. (See Colburn, Henry J., assignor.)						
Colburn, Leslie H., et al. (See Colburn, Henry J., assignor.)						
Colby, Caleb K., assignor to G. C. Tebo, Brooklyn, N. Y. Car-fender	564,006	July 14	1352	315	76	267
Colby, Charles H. and T. E., Brooklyn, N. Y. Thread-cutting device for sewing-machines	561,766	June 9	1263	301	75	1634
Colby, Edward A., Newark, N. J. Electric glow-lamp	558,634	Apr. 21	1967	478	75	404
Colby, Eli J., Spring Valley, Minn. Harrow and seeder	552,822	Jan. 7	609	148	74	114
Colby, Eugene P., assignor of one-half to J. P. Bodge, Fall River, Mass. Belt-shifting device for self-acting mules	556,918	Mar. 24	2565	604	74	1658
Colby, Jesse A., Wilmington, Del. Shoemaker's last	570,154	Oct. 27	2524	598	77	516
Colby, Thomas E. (See Colby, Charles H. and T. E.)						
Colcord, William H. (See Sawyer and Colcord.)						
Coldiron, John J., et al. (See Cullens, John T., assignor.)						
Cole, Alan. (See Tobe, Frederick E., assignor.)						
Cole, Alexander, Bridgeton, N. J. Spring bed-bottom	564,869	July 28	2846	682	76	572
Cole, Anson D., assignor of one-half to B. S. Smith, Philadelphia, Pa. Attachment for preventing refilling of bottles	571,967	Nov. 24	2733	646	77	1210
Cole, Anson D., assignor of one-half to B. S. Smith, Philadelphia, Pa. Attachment for preventing refilling of bottles	571,968	Nov. 24	2734	646	77	1210
Cole, Charles L., Bushnell, assignor of one-half to S. O. Spring, Peoria, Ill. Corn-popper	554,772	Feb. 18	1718	402	74	858
Cole, Edwin L., Peru, Ohio. Stove-leg	553,152	Jan. 14	1202	293	74	241
Cole, Frederick W., Newton, Mass. Local-alarm door for signal-boxes	552,746	Jan. 7	447	112	74	85
Cole, Frederick W., Newton, Mass. Tower-striker	566,843	Sept. 1	184	42	76	1317
Cole, Frederick W., Newton, Mass., assignor, by mesne assignments, to United States Fire and Police Telegraph Company, Portland, Me., and Boston, Mass. Successive non-interference signal-box	553,838	Feb. 4	30	8, 9	74	510
Cole, Frederick W., Newton, Mass., assignor, by mesne assignments, to United States Fire and Police Telegraph Company, Portland, Me., and Boston, Mass. Non-interference signal-box	553,839	Feb. 4	39	9	74	511

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Cole, Frederick W., Newton, Mass., assignor, by mesne assignments, to United States Fire and Police Telegraph Company, Portland, Me., and Boston, Mass. Successive non-interference signal-box	553,840	Feb. 4	43	10	74	513
Cole, Frederick W., Newton, and W. M. Chapman, Needham, Mass. Electric visual indicator	555,076	Feb. 25	2268	{ 541 542 }	{ 74 74 }	{ 975 975 }
Cole, George H., Lowell, Mass. Mechanical oiler for shafting	553,512	Jan. 28	1838	436	74	388
Cole, George W., Asbury Park, N. J. Bicycle toe-clip	560,392	May 19	1930	441	75	1106
Cole, Harrison, Columbus, Ohio. Device for determining optical axes and centers of lenses	563,745	July 14	863	205	76	177
Cole, Hartley R. (See Murray and Cole.)						
Cole, J. Edward, <i>et al.</i> (See Sears, Sydney L., assignor.)						
Cole, James, London, England. Photographic camera	561,966	June 16	1610	391	75	1719
Cole, John L., Radford Furnace, Va. Machine for sawing fellies, &c.	569,956	Oct. 20	2179	517	77	438
Cole, R. D., Sr. (See Florence, George, assignor.)						
Cole, Romaine C., New York, N. Y. Culinary utensil	561,566	June 9	904	217	75	1566
Cole, Walter, assignor to W. H. Van Steenberg, New York, N. Y. Manufacturing butter	564,325	July 21	1912	452	76	383
Cole, Warren, Jr., Knoxville, Tenn. Folding bed	561,654	June 9	1054	255	75	1594
Cole, Warren W., Portland, Me. Penholder	555,676	Mar. 3	335	76	74	1190
Cole, William E., Atlanta, Ga. Smoke-consumer	570,001	Oct. 27	2257	536	77	464
Cole, William E., assignor of one-half to A. J. Vickers, Atlanta, Ga. Steering apparatus for boats	557,052	Mar. 24	2798	665	74	1704
Cole, William M., Concord, Mass. Penholder	563,015	June 30	3441	827	75	2102
Cole, William R., Detroit, Mich. Telephone-transmitter	558,354	Apr. 14	1477	363	75	297
Cole, William R., Detroit, Mich. Store-service apparatus	566,139	Aug. 18	2172	528	76	1061
Coleman, Clyde, assignor of two-thirds to A. L. Deane and J. W. Donnell, Chicago, Ill. Electrical burglar-alarm	554,505	Feb. 11	1250	293	74	752
Coleman, Clyde, assignor of two-thirds to A. L. Deane and J. W. Donnell, Chicago, Ill. Galvanometer	570,454	Nov. 3	25	5, 6	77	643
Coleman, Clyde, assignor of two-thirds to A. L. Deane and J. W. Donnell, Chicago, Ill. Electric burglar-alarm	570,906	Nov. 10	886	{ 206 207 }	{ 77 77 }	{ 832 832 }
Coleman, Edward E., Easthampton, Mass. Water-wheel and gate therefor	568,603	Sept. 29	3306	793	76	1953
Coleman, Francis W., Rodney, Miss. Bottle-cap	564,146	July 14	1601	375	76	316
Coleman, James A., Perry Station, Canada. Automatic-closing telegraphic key	553,106	Jan. 14	1137	276	74	228
Coleman, John G., Lenox, Iowa. Damper and ventilator for stovepipes	557,763	Apr. 7	444	105	75	84
Coleman, John P., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Automatic signal	565,839	Aug. 11	1621	397	76	937
Coleman, John P., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Signal apparatus	566,499	Aug. 25	2826	{ 688 689 }	{ 76 76 }	{ 1201 1201 }
Coleman, John P., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Electrically-controlled derails for railway-crossings	571,107	Nov. 10	1247	290	77	898
Coleman, John P., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Track-drill	572,156	Dec. 1	113	27	77	1299
Coleman, John P., assignor to Union Switch and Signal Company, Swissvale, Pa. Indicator or signal	573,207	Dec. 15	1972	475	77	1691
Coleman, John R., Perry, assignor to Metallic Basket Company, Cedar Rapids, Iowa. Metallic basket	561,655	June 9	1055	255	75	1594
Coleman, Joseph H., Tottenham, Canada. Fare-box	552,892	Jan. 14	747	182	74	154
Coleman, Michael P., Boston, Mass. Core-press	573,643	Dec. 22	2807	665	77	1866
Coleman, Sanford, San Francisco, Cal. Car-coupling	554,984	Feb. 18	2084	496	74	927
Coleman, Thomas, Jr., and C. Runyon, Rochester, Pa. Glass-mold dipping and opening apparatus	560,974	May 26	2990	686	75	1320
Coleman, Thomas J., Greenwood, Ark. Pea and bean thresher	566,743	Sept. 1	19	5	76	1284
Coleman, Thomas S. and W. P., Marshall, Tex. Plumbing system	570,455	Nov. 3	27	6	77	643
Coleman, William P. (See Coleman, Thomas S. and W. P.)						
Coles, Charles N., <i>et al.</i> (See Brawley, William H., assignor.)						
Coles, John B., <i>et al.</i> (See Brawley, William H., assignor.)						
Coles, William A., Elgin, Ill. Core-set fastening	561,866	June 9	1440	347	75	1667
Coles, William G., and F. A. Barker, assignors to H. Verbeek, Chicago, Ill. Water-closet	570,543	Nov. 3	194	52	77	674
Coley, Joseph, Worcester, Mass. Double-faced woven pile fabric	558,160	Apr. 14	1156	283	75	236
Colgate, Arthur E., New York, assignor to G. J. Schoeffel, Brooklyn, N. Y. Electrical whistle-controlling device	553,900	Feb. 4	176	37	74	538
Colgate, Arthur E., New York, assignor to G. J. Schoeffel, Brooklyn, N. Y. Search-light	573,962	Dec. 29	3381	809	77	1985
Colgrove, James, Clearwater, Minn. Hand potato-planter	560,840	May 20	2758	632	75	1276
Colhapp, Daniel W., Chicago, Ill. Repair-plug for pneumatic tires	571,108	Nov. 10	1249	290	77	898
Collar, Adoniram J., Yreka, Cal. Hydraulic engine	560,394	May 19	1931	{ 441 442 }	{ 75 75 }	{ 1107 1107 }
Collard, Job B., and H. J. Hensarling, Rogersville, Tex. Cultivator	570,842	Nov. 3	771	176	77	782
Collen, Daniel, Inwood, Canada. Car-coupling	555,364	Feb. 25	2781	651	74	1073
Collen, Daniel, Inwood, Canada. Railway-crossing	571,215	Nov. 10	1413	331	77	929
Collet, Mark W., assignor, by mesne assignments, to Elevator Safety Controller Company, Philadelphia, Pa. Lock for shaft-doors of elevators	565,882	Aug. 18	1709	418	76	971
Colley, Robert B., St. Helier's, Island of Jersey. Trousers presser and stretcher	571,991	Nov. 24	2774	654	77	1217
Collicott, Edmund S., London, England. Electrode for galvanic belts	563,016	June 30	3442	823	75	2102
Collier, Edwin W. (See Soar and Collier.)						
Collier, Samuel J., Chicago, Ill. Electrotherapeutic apparatus for treating deafness	561,046	May 26	3106	716	75	1342
Collin, Simon C., Wissahickon, Pa. Charging and drawing apparatus	565,434	Aug. 11	869	{ 205 206 }	{ 76 76 }	{ 797 797 }
Colling, Charles J., Cincinnati, Ohio. Machine for making curved molding and embossing sheet metal	558,673	Apr. 21	2044	{ 492 493 }	{ 75 75 }	{ 417 417 }
Collins, Alfred R. (See Conard and Collins.)						
Collins, Alonzo G., St. Louis, Mo., assignor of one-half to Hord & Berg, San Antonio, Tex. Measuring and proportioning machine	559,680	May 5	556	{ 130 131 }	{ 75 75 }	{ 788 788 }
Collins Automatic Pneumatic Switching Tubes Company. (See Collins, William G., assignor.)						
Collins, Charles E. (See Williamson, Collins, and Graham.)						
Collins, Edward, New York, N. Y. Safety elevator-brake	559,569	May 5	374	90, 91	75	755
Collins, Frank O. (See Buerk, David M., assignor.)						
Collins, George J. S., Chicago, Ill. Ball-caster	559,514	May 5	280	66	75	736
Collins, Henry. (See Collins, Joseph W. and H.)						
Collins, Henry A., Brooklyn, N. Y. Filter or oil-extractor	573,766	Dec. 22	3014	714	77	1904
Collins, Herman B., Fulton, N. Y. Electric motor	569,746	Oct. 20	1824	433	77	372
Collins, Hiram B., Frankfort, Ind. Eraser	570,456	Nov. 3	30	7	77	644
Collins, Jasper P. (See Speer, Edwin A., assignor.)						
Collins, Joseph W. and H., Pawtucket, R. I. Bearing for dead-spindle sleeves	560,393	May 19	1930	441	75	1106
Collins, Judith L., Monongahela, Pa. Toy	556,333	Mar. 17	1552	363	74	1451
Collins, Mary, Scranton, Pa. Child-carrying strap	554,019	Feb. 4	398	87	74	578

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Collins, Mary E., assignor of one-half to C. M. Riggs, Grand Rapids, Mich. Fountain bath-brush.....	562,760	June 23	2962	717	75	1988
Collins, Michael, Omaha, Nebr. Collar and cuff starching machine.....	555,210	Feb. 25	2505	591	74	1021
Collins, Peter P., Toronto, Ohio. Wrench.....	555,677	Mar. 3	337	77	74	1190
Collins Plow Company. (See Brown and Gehrt, assignors.)						
Collins, Stephen, Portland, Oreg. Car-axle box.....	573,391	Dec. 15	2305	551	77	1752
Collins, Thomas, Overton, Pa. Hat, umbrella, and muff holder.....	561,045	May 26	3105	716	75	1342
Collins, Wallace G. (See Sloan, Leander E., assignor.)						
Collins, Warren E., Boston, Mass. Valve for pneumatic tires.....	573,392	Dec. 15	2306	551	77	1752
Collins, Wheeler R. (See Schorr and Collins.)						
Collins, Wheeler R., Denver, Colo. Bill-file.....	565,871	Aug. 11	1691	414	76	952
Collins, William A., Bayonne, N. J. Dredging-bucket.....	572,651	Dec. 8	987	238	77	1486
Collins, William G., New York, N. Y., assignor, by mesne assignments, to Collins Automatic Pneumatic Switching Tubes Company, of New Jersey. Pneumatic tube.....	555,077	Feb. 25	2274	542	74	976
Collins, William G., New York, N. Y., assignor, by mesne assignments, to Collins Automatic Pneumatic Switching Tubes Company, of New Jersey. Pneumatic tube.....	555,078	Feb. 25	2278	542 543	74	977
Collins, William G., New York, N. Y., assignor to Collins Automatic Pneumatic Switching Tubes Company, of New Jersey. Pneumatic-dispatch tube.....	555,079	Feb. 25	2282	543	74	978
Collins, William L. B. (See Miller and Collins.)						
Colliver, Henry P. (See Rider and Colliver.)						
Collyer, Albert E., assignor of one-half to O. T. and B. G. Kimmel, Monmouth, Ill. Automatic telegraph-repeater.....	558,042	Apr. 14	963	236	75	199
Colman, Frederick. (See Richard and Colman.)						
Colony, James D., Durham, N. H. Die-press.....	558,601	Apr. 21	1917	466 467	75	395
Colorado Iron Works. (See Cazin, Franz, assignor.)						
Colorado Iron Works. (See Nesmith, John W., assignor.)						
Colorado Iron Works Company. (See Bible, James M., assignor.)						
Colson, Edward C., Chicago, Ill. Fumigating apparatus.....	558,258	Apr. 14	1325	323 324	75	267
Coltharp, Malley H., Tallulah, La. Hat-pin.....	564,364	July 21	1984	466	76	396
Colton, Albert R., Rochester, N. Y. Invisible lacing.....	571,749	Nov. 24	2347	561	77	1136
Colt's Patent Fire Arms Manufacturing Company. (See Ehbets, Carl J., assignor.)						
Columbia Cash Register Company. (See Jacques, James, assignor.)						
Columbia Cash Register Company. (See Jacques and Trask, assignors.)						
Columbia Cash Register Company. (See White, Albert, assignor.)						
Columbia Perfecting Press Company. (See Schulze, Rudolph P., assignor.)						
Columbian Hose Nozzle Company. (See Morrell, Alonzo M., assignor.)						
Columbian Hose Nozzle Company. (See Murphy, Thomas L., assignor.)						
Colver, Eleanor C., New York, N. Y. Last or tree.....	573,644	Dec. 22	2810	665	77	1866
Colver, Franklin A. (See Cooper and Colver.)						
Colver, Mary J., Frankfort, Ind. Underskirt.....	559,681	May 5	559	132	75	789
Colves, Charles, assignor of one-half to H. C. Meyer, Beardstown, Ill. Truss.....	556,620	Mar. 17	2061	482	74	1546
Colvin, Frank D. (See Groff and Colvin.)						
Colvin, Frank D., Baltimore, Md., assignor of one-half to Foster Brothers Manufacturing Company of Baltimore City, of Maryland. Spring bed-bottom.....	570,425	Oct. 27	3059	724 725	77	616
Colvin, Frank R., assignor to Interior Telephone Company, New York, N. Y. Telephone system.....	552,823	Jan. 7	611	148	74	115
Colvin, Frank R., assignor to Interior Telephone Company, New York, N. Y. Telephony.....	552,865	Jan. 7	684	166	74	129
Colvin, Frank R., assignor to Interior Telephone Company, New York, N. Y. Telephony.....	554,656	Feb. 18	1524	360	74	820
Colvin, Fred H., Philadelphia, Pa. Hammer.....	562,581	June 23	2658	643	75	1930
Colwell, Augustus W. and L., New York, N. Y. Steam-boiler.....	553,513	Jan. 28	1840	437	74	388
Colwell, Lewis. (See Colwell, Augustus W. and L.)						
Colwell, Llewellyn R. (See Graham and Colwell.)						
Colwell, Nicholas H., Kenton, Ohio. Door-fastener.....	554,615	Feb. 11	1443	338	74	789
Colwell, William C., Palatka, Fla. Hose-coupling.....	558,355	Apr. 14	1479	363	75	297
Coman, Edgar E., and H. S. Seeley, Prattville, Mich. Car-coupling.....	562,378	June 23	2313	561	75	1865
Combination Roll and Rubber Company. (See Moomy, Joseph G., assignor.)						
Combs, John, Rushville, Ohio. Wire fence.....	557,490	Mar. 31	3582	858	74	1872
Comer, Frank, London, England. Bridging teeth.....	571,556	Nov. 17	2002	475	77	1052
Comer, Frank L., et al. (See Allen, Jot S., assignor.)						
Comes, Keros L., and S. T. Newman, Danbury, Conn. Hat-curling machine.....	565,154	Aug. 4	379	88, 89	76	688
Comfort, David, Albany, Ga. Seal-lock.....	570,907	Nov. 10	890	207	77	833
Compagnie de l'Industrie Electrique. (See Thury, René, assignor.)						
Compagnie Générale pour l'Exploitation des Machines à Fabriquer les Cigares (Brevets J. Reuse) Société Anonyme. (See Reuse, Jean, assignor.)						
Compagnie Internationale des Procédés Adolphe Seigle. (See Seigle, Adolphe, assignor.)						
Complete Combustion Company. (See Parkhurst, Edward B., assignor.)						
Composite Brake-Shoe Company. (See Whitcomb, William W., assignor.)						
Composite Brake Shoe Company. (See Whitcomb and Coggin, assignors.)						
Compton, Elizabeth, Campgaw, N. J. Shoe-fastener.....	557,053	Mar. 24	2798	665	74	1704
Compton, Shelby, administrator. (See Swift and Stewart.)						
Compton, William A., Liberty Corner, N. J. Neck-scarf.....	556,135	Mar. 10	1155	271	74	1363
Conrie, Jennings, Milwaukee, Wis. Glove.....	573,447	Dec. 22	2447	581	77	1796
Comstock, Alfred H., et al. (See Flood, Benjamin P., assignor.)						
Comstock, Andrew W., et al. (See Sleeper, George W., assignor.)						
Comstock Cheney & Company. (See Shaller and Chapman, assignors.)						
Comstock, Francis M., assignor to Comstock Motor Company, Topeka, Kans. Engine.....	560,892	May 26	2863	656	75	1296
Comstock-Hoff Manufacturing Company. (See Hoff, Augustus, assignor.)						
Comstock Motor Company. (See Comstock, Francis M., assignor.)						
Comstock, Oscar A., Amboy, Ill. Headlight.....	573,177	Dec. 15	1917	460	77	1682
Conant, Luther, Oak Park, Ill. Adjustable partition for drawers.....	560,893	May 26	2866	657	75	1296
Conard, Linford H., and A. R. Collins, Camden, N. J. Ventilator.....	555,431	Feb. 25	2901	690	74	1095
Conaway, E. H., et al. (See Clark, David K., assignor.)						
Conaway, John L., Philadelphia, Pa. Fastening for shoes, leggings, &c.....	572,157	Dec. 1	114	27	77	1299
Conaway, W. R., et al. (See Clark, David K., assignor.)						
Conboy, Daniel, Toronto, Canada. Carriage-top.....	560,121	May 12	1428	321	75	966
Conchar, James W., Dubuque, Iowa. Track for sliding doors.....	555,848	Mar. 3	602	143	74	1241
Conde, Jesse C., Boston, Mass. Liquid-testing device.....	569,783	Oct. 20	1887	448	77	383
Conderman, George W., Philadelphia, Pa. Hot and cold water supply for wash-trays, laundry-tubs, &c.....	566,296	Aug. 25	2416	593	76	1125
Conderman, Martin I., Hornellsville, N. Y. End-gate for wagons.....	574,021	Dec. 29	3490	834	77	2004
Condit, George M., Nineveh, Pa. Feed-trough.....	554,985	Feb. 18	2055	496	74	927
Condon, Alvin T., Belfast, Me. Tricycle.....	564,408	July 21	2056	482	76	410
Condon, William F., Saginaw, Mich. Safety car-brake.....	559,121	Apr. 28	2222	683	75	545
Condon, William F., Saginaw, Mich. Safety-gate for drawbridges and railway-crossings.....	563,019	June 30	3446	829	75	2103

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Cone, Edward G., and D. R. Close, Chicago, Ill. Magazine-camera	558,356	Apr. 14	1480	363	75	297
Cone, William C. (See Strobel and Cone.)						
Congdon, Henry W., assignor to himself and G. Smith, Weeping Water, Nebr. Self-registering lumber-measure	566,140	Aug. 18	2173	529	76	1060
Congelton, Osborn, New York, N. Y. Cuff-link	570,457	Nov. 3	31	7	77	644
Conger, Charles A., San Francisco, Cal. Buckle	557,253	Mar. 31	3166	760	74	1791
Conine, Gamaliel T., Prattsburg, N. Y. Telescopic valise	566,663	Aug. 25	3057	747	76	1246
Conklin, Don C., and J. Hughes, Corder, Mo. Baggage-loader	571,828	Nov. 24	2481	558	77	1161
Conklin, George A., Blairtown, Iowa. Sunshade for bicycles	561,767	June 9	1265	301	75	1635
Conklin, William A., Table Rock, Nebr. Game-board	567,885	Sept. 15	1996	479	76	1683
Conkling, Allen, Chicago, Ill., and T. S. Wiles, Albany, N. Y. Tape for laundry machinery	553,669	Jan. 28	2114	501	74	438
Conkwright, Stonewall J., Winchester, Ky. Invalid-bed	554,580	Feb. 11	1372	{ 332 333 }	74	777
Conley, Charles M., Chicago, Ill. Stereotype-casting apparatus	560,395	May 19	1934	442	75	1107
Conley, John. (See Blackstock and Conley)						
Conley, Michael R., Brooklyn, assignor to W. Bell, New York, N. Y. Electrical furnace	558,357	Apr. 14	1481	364	75	297
Conlin, John, and R. Whitty, Ripon, Wis. Show-case	557,974	Apr. 7	798	{ 190 191 }	75	150
Connell, James R. (See Bolte, Donlevy, and Connell.)						
Connell, Richard T. (See Stephens and Connell.)						
Connell, Richard T., and J. C. Calhoun, St. Joseph, Mo. Water-heating fireplace	556,807	Mar. 24	2377	559	74	1623
Connell, Walter G., assignor to J. H. Lorimer, Philadelphia, Pa. Jacquard mechanism for looms	567,453	Sept. 8	1274	308	76	1529
Connell, William, Pittsburg, Pa. Electric sign	572,158	Dec. 1	116	27	77	1300
Connolly-Critchlow Company. (See Connolly, John S., assignor.)						
Connolly, John S., assignor to Connolly-Critchlow Company, Titusville, Pa. Gas-regulator	564,047	July 14	1438	334	76	282
Connolly, John S., assignor to Connolly-Critchlow Company, Titusville, Pa. Gas lighting or extinguishing apparatus	566,445	Aug. 25	2743	665	76	1185
Connolly, William, Toledo, Ohio. Means for cleaning oil-wells	572,867	Dec. 8	1358	328	77	1557
Conner, Benjamin, Philadelphia, Pa. Shade-holder	573,138	Dec. 15	1856	446	77	1670
Conner, Burnetta, Hardy, Ark. Spinning attachment for sewing-machines	557,110	Mar. 31	2292	691	74	1745
Conner, Daniel E., assignor to J. Steffin, Covington, Ky. Station-indicator	571,301	Nov. 10	1566	372	77	959
Conner Elevator Safety Appliance Company. (See Conner, John D., assignor.)						
Conner, John D., Philadelphia, Pa., assignor to Conner Elevator Safety Appliance Company. Safety locking device for elevators and elevator-doors	564,956	July 28	3004	715	76	600
Conner, Joseph, New York, N. Y., assignor of forty-nine one-hundredths to G. T. Keeler, Baltimore, Md. Game apparatus	574,351	Dec. 29	4120	978	77	2119
Conner, Joseph, J. R. MacMillan, and A. J. Fuller, Philadelphia, Pa. Electric motor	565,155	Aug. 4	383	89, 90	76	689
Conner, Patrick H., and L. Clark, Monticello, Iowa. Corn-husker	574,136	Dec. 29	3698	{ 881 882 }	77	2043
Conner, William W., Dover, Del. Means for automatically lubricating vehicle-axles	559,076	Apr. 28	2737	666	75	565
Conners, Timothy, Brooklyn, N. Y. Curved sectional mandrel	553,608	Jan. 28	2015	477	74	421
Connet, Frederick N., Providence, R. I. Crane	563,258	July 7	40	10, 11	76	9
Connet, Frederick N., Providence, R. I. Crane	563,259	July 7	47	12	76	11
Connett, Albert N., Washington, D. C. Current-collector for electric railways	560,841	May 26	2759	{ 632 633 }	75	1277
Connett, Albert N., Washington, D. C., and J. S. Detrick, Baltimore, Md.; said Detrick assignor to said Connett. Current-collector for electric railways	560,894	May 26	2868	{ 657 658 }	75	1296
Connolly, Patrick, Brooklyn, N. Y. Washtub	561,493	June 2	765	{ 187 188 }	75	1514
Connor, James M. (See Forester, Edward W., assignor.)						
Connor, John T., Houston, Tex. Apparatus for heating up locomotive-boilers	553,449	Jan. 21	1722	410	74	350
Conover, Edwin K., Newark, N. J. Water-supply system	568,522	Sept. 29	3157	760	76	1924
Conover, John T., Flemington, N. J. Fence	571,150	Nov. 10	1321	308	77	912
Conrad, Charles P., Denver, Colo., assignor of two-thirds to C. T. Clymer, H. Thompson, G. Boelke, W. Capelli, W. Mayer, and F. Ballat. Punctureless pneumatic tire	557,531	Mar. 31	3657	876	74	1884
Conrad, Fredrick C., and C. W. Goodspeed, Elyria, Ohio. Pneumatic car-lock	564,304	July 21	1877	441	76	377
Conrad, Hugh V., North Tarrytown, N. Y. Inlet-valve for air-compressors	569,323	Oct. 13	1052	{ 249 250 }	77	217
Conrad, Otto. (See Phifer, Washington I., assignor.)						
Conrad, William, Atlanta, N. Y. Wire fence	569,275	Oct. 13	960	230	77	199
Conrader, Rudolph, Erie, Pa. Oil-filtering apparatus and process	559,439	May 5	163	35	75	713
Conrader, Rudolph, Erie, Pa. Oil-filter	559,440	May 5	166	36	75	713
Conradi, Jacob B. (See Caswell, Myron J., assignor.)						
Conradson, Conrad M. (See Jackson and Conradson.)						
Conrath, Solomon, and S. Kridler, Cookport, Pa. Broom-holder	554,657	Feb. 18	1526	360	74	821
Conrow, Roland, Cinnamonson, N. J. Indicating device for bicycles, &c.	574,022	Dec. 29	3491	834	77	2004
Conroy, Patrick J., Philadelphia, Pa. Lock and latch	561,915	July 28	2909	697	76	584
Consalvi, Icilio, Revere, Mass. Banjo	568,297	Sept. 22	2741	658	76	1834
Consolidated Car-Heating Company. (See McElroy, James F., assignor.)						
Consolidated Fastener Company. (See Dowse, William B. H., assignor.)						
Consolidated Fastener Company. (See Smith, Joseph R., assignor.)						
Consolidated Fruit Jar Company. (See Fisher, Alvin L., assignor.)						
Consolidated Hand Method Lasting Machine Company. (See Carter, George W., assignor.)						
Consolidated Hand Method Lasting Machine Company. (See Fréchette, Isaac, assignor.)						
Consolidated Hand Method Lasting Machine Company. (See Worcester, Edgar E., assignor.)						
Consolidated Railway Supply Company. (See Graham, John H., assignor.)						
Consolidated S. O. S. Bag Company. (See Lorenz, William A., assignor.)						
Consolidated S. O. S. Bag Company. (See Lorenz and Reising, assignors.)						
Consolidated S. O. S. Bag Company et al. (See Lorenz and Claussen, assignors.)						
Consolidated Safety Pin Company. (See Bryant, Charles A., assignor.)						
Consolidated Safety Pin Company. (See Farmer, George P., assignor.)						
Consolidated Sterling Incandescent Gas Lamp Company. (See Inch, Philip, assignor.)						
Consolidated Sterling Incandescent Gas Lamp Company. (See Voelker, William L., assignor.)						
Consolidated Telegraph and News Company. (See Merritt, Benjamin F., assignor.)						
Consolidated Telegraph and News Company. (See Merritt and Joy, assignors.)						
Constable, Robert S. (See Cunningham, Logan M., assignor.)						
Constant, Hormisdas. (See Alluisi, Charles, assignor.)						
Constantin, Gaston E., et al. (See Girtler, John F., assignor.)						
Contardo, Ramon C., Paris, France. Turnstile	552,893	Jan. 14	751	183	74	155
Conti, James T. F., Paris, France. System of distributing gear for cylinders or other apparatus operated by motive fluids	554,111	Feb. 4	576	130	74	609

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Conti, James T. F., Paris, France. Fluid-pressure regulator.....	556,402	Mar. 17	1675	{ 390	74	1475
Conti, James T. F., Paris, France. Slide-valve gear.....	562,804	June 30	3046	736		
Convers, Albert E., Cleveland, Ohio. Tack-machine.....	563,017	June 30	3443	828	75	2021
Convers, Albert E., Cleveland, Ohio. Throw-off for tack-machine rockers.....	563,018	June 30	3445	828	75	2102
Converse, Edmund. (See Turner, William A., assignor.)						
Converse, Edmund C. (See Lynch, Harry B., assignor.)						
Converse, Frank M., New York, N. Y. Hook.....	564,326	July 21	1915	452	76	384
Converse, Frank M., New York, N. Y. Safety-seal for envelopes.....	564,327	July 21	1916	452	76	384
Converse, John H., et al. (See McConnell, Jacob Y., assignor.)						
Converse, Merton E., Winchendon, Mass. Rocking or similar horse.....	570,002	Oct. 27	2259	537	77	465
Converse, Morton E., Winchendon, Mass. Embossing-machine.....	554,053	Feb. 4	457	102	74	588
Converse, Morton E., Winchendon, Mass. Bed.....	556,334	Mar. 17	1553	363	74	1451
Convert, Richard E., Chicago, Ill. Carbonator.....	553,054	Jan. 14	1033	252	74	207
Conway, George M., Milwaukee, Wis. Shaking and dumping grate.....	556,403	Mar. 17	1677	391	74	1475
Conway, Harrison V., Boone, Iowa. Fence-tightener.....	563,137	June 30	3670	878	75	2144
Conway, John. (See Fox, John, assignor.)						
Conway, John, Union, N. J., assignor of two-thirds to B. Feeney and W. I. McCoy. Wash-tub.....	572,597	Dec. 8	897	217	77	1468
Conway, Richard, Carroll, Iowa. Gage.....	560,781	May 26	2658	611	75	1257
Conway, W. E., et al. (See Milner, George, assignor.)						
Cooch, Francis L., and W. H. Lawrence, Pottsville, Pa. Bottle.....	567,808	Sept. 15	1869	447	76	1657
Cook, Aaron R., Newton, Mass. Device for copy-holders.....	567,221	Sept. 8	848	201	76	1453
Cook, Adolphus H., assignor of one-half to A. Hood, Markham, Canada. Fence.....	568,744	Oct. 6	52	13	77	13
Cook, Adolphus H., assignor of one-half to A. Hood, Markham, Canada. Fence.....	569,174	Oct. 13	784	183	77	165
Cook, Austin W., Stockton, assignor of one-half to A. A. Day, Santa Cruz county, Cal. Thill-tug.....	562,066	June 16	1795	434	75	1752
Cook & Bro., E. C. (See Frazier, Horace B., assignor.)						
Cook, Charles H., Trenton, N. J. Venting device for water-closet bowls.....	570,982	Nov. 10	1010	235	77	855
Cook, Clara A., Philadelphia, Pa. Folding or portable stove.....	554,334	Feb. 11	961	222	74	698
Cook, David F., and H. U. Abbott, Converse, Ind. Broom-head.....	568,836	Oct. 8	203	49	77	40
Cook, Emanuel M., Indianapolis, Ind. Valve for fire-extinguisher systems.....	558,259	Apr. 14	1328	324	75	268
Cook, Francis C. (See Cook, Francis L., assignor.)						
Cook, Francis L., assignor to F. C. Cook, Springfield, Mass. Roach-trap.....	554,616	Feb. 11	1445	339	74	790
Cook, Francis L., assignor of one-half to S. A. Ryan, Springfield, Mass. Non-refillable bottle.....	574,193	Dec. 29	3841	916	77	2067
Cook, Francis M., Tupelo, Ark. Colter-holder.....	571,189	Nov. 10	1376	321	77	923
Cook, Fred L., Ashtabula, Ohio. Roof construction.....	568,066	Sept. 22	2344	566	76	1757
Cook, George, Syracuse, N. Y. Water-tube boiler.....	566,500	Aug. 25	2828	689	76	1201
Cook, George, Syracuse, N. Y. Balanced slide-valve.....	566,501	Aug. 25	2830	689	76	1201
Cook, George T., Bristol, Conn. Egg-whipper.....	565,260	Aug. 4	596	140	76	724
Cook, Harry A. (See Ballard, Vernon H., assignor.)						
Cook, Herbert F., Cleveland, Ohio. High or low water alarm.....	558,161	Apr. 14	1157	283	75	236
Cook, J. W., et al. (See Morrison, James D., assignor.)						
Cook, James L., Springfield, Ill. Wheel and axle.....	556,808	Mar. 24	2379	560	74	1624
Cook, James L., Springfield, Ill. Box and axle for vehicles.....	556,809	Mar. 24	2382	560	74	1624
Cook, James M., Mount Gilead, Ohio. Motor-vehicle.....	569,175	Oct. 13	785	{ 183	77	166
				184		
Cook, John W., and C. Scott, Woodburn, Oreg. Brake-rod.....	552,824	Jan. 7	612	149	74	115
Cook, Kate J., New York, N. Y. Bicycle-skirt.....	564,271	July 21	1828	428	76	368
Cook, Leroy, Worcester, Mass. Rail-bond.....	561,698	June 9	1135	271	75	1610
Cook, Lewis I., et al. (See Wenger, Julius D. C., assignor.)						
Cook, Lewis L., and C. Carter, Ansonia, Conn. Machine for covering dress-stays.....	554,773	Feb. 18	1719	403	74	858
Cook, Louis T., Portsmouth, Ohio. Variable feed for gang stone-saws.....	559,441	May 5	167	36, 37	75	713
Cook, Marion F., assignor of one-half to C. R. Martin and T. B. Hanna, Denison, Tex. Train-marker and signal-lamp.....	554,966	Feb. 18	2086	496	74	927
Cook, Moses G., Ashfield, assignor to G. H. Allen, Lynn, Mass. Flue-cleaner.....	560,084	May 12	1356	304	75	952
Cook, Philip A., Woodside, N. J., assignor of one-half to J. F. Emmons, Staten Island, N. Y. Grinding or crushing mill.....	568,334	Sept. 29	2811	676	76	1862
Cook, Richard R. (See Walker and Cook.)						
Cook, Thomas R., Marion, assignor of one-half to E. Over, Indianapolis, Ind. Machine-gun.....	560,842	May 26	2761	633	75	1277
Cook, Truman D., Topeka, Kans. Carving, routing, and mortising machine.....	554,333	Feb. 11	959	222	74	697
Cook, Walter E., assignor of one-half to J. P. C. Weis, Providence, R. I. Grinding-machine.....	556,919	Mar. 24	2567	604	74	1659
Cook, Wilber E., Middletown, N. Y. Bottle-stopper.....	563,568	July 7	570	131	76	107
Cook, Wilber E., C. R. Stout, and R. S. Morris, Siloam Springs, Ark. Rail lock and support.....	570,003	Oct. 27	2259	537	77	465
Cook, William. (See Musgrave and Cook.)						
Cook, William, New York, N. Y. Letter-box.....	560,477	May 19	2077	473	75	1132
Cooke, Emma C. (See Rood, Alfred E., assignor.)						
Cooke, Emma M., et al. (See Cooke, Robert F., assignor.)						
Cooke, George, Philadelphia, Pa. Protective cutter.....	561,092	June 2	29	8	75	1372
Cooke, Hiram L., Brampton, N. D. Planting attachment.....	552,515	Jan. 7	23	8	74	7
Cooke, Robert F., assignor to E. M. Cooke and E. Sandford, New York, N. Y. Lighting implement.....	557,555	Apr. 7	38	11	75	9
Cooke, Robert F., assignor to E. M. Cooke, Brooklyn, and E. Sandford, New York, N. Y. Slow-match.....	557,556	Apr. 7	39	11	75	9
Cooke, Robert F., assignor to E. Sandford, New York, and E. M. Cooke, Brooklyn, N. Y. Match.....	563,746	July 14	865	206	76	178
Cooke, Samuel P., Independence, Wis. Swaging or welding machine.....	564,972	Aug. 4	24	5	76	621
Cooke, William A., Jr., Brooklyn, N. Y. Transfer-sheet holder and cover for manifolding-books.....	558,635	Apr. 21	1969	478	75	405
Cooke, William A., Jr., Brooklyn, N. Y. Manifolding-book.....	558,636	Apr. 21	1971	478	75	405
Cooke, William A., Jr., Brooklyn, N. Y. Duplicate memorandum or sales-check book.....	558,637	Apr. 21	1973	479	75	405
Cooke, William A., Jr., Brooklyn, N. Y. Letter-file.....	565,961	Aug. 18	1857	{ 451	76	1001
				452		
Cookson, Thomas J., Chicago, Ill. Feed-water heater.....	562,888	June 30	3214	777	75	2053
Cooley, Albert J., New York, N. Y. Registering device.....	566,297	Aug. 25	2417	594	76	1125
Cooley, Milton H., Brockport, N. Y. Apparatus for warming and ventilating.....	553,670	Jan. 28	2116	501	74	438
Cooley, William H., Brockport, N. Y. Means for recording and reproducing impulses.....	554,862	Feb. 18	1877	442	74	889
Cooley, William H., Brockport, N. Y. Electric motor.....	561,699	June 9	1136	272	75	1610
Cooley, William H., Brockport, N. Y. Electric motor.....	561,700	June 9	1144	{ 272	75	1612
				273		
Cooley, William H., Brockport, N. Y. Electric motor and motor-generator.....	561,867	June 9	1441	348	75	1667
Cooley, William H., Brockport, N. Y. Automatic system of distribution and control for electric railways, &c.....	573,645	Dec. 22	2810	666	77	1866

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Coolidge, Henry A., East Jaffrey, assignor of one-half to J. W. Coolidge, Hancock, N. H. Wrench	562,329	June 16	2220	540	75	1833
Coolidge, John W. (See Coolidge, Henry A., assignor.)						
Coombe, John W., Rochepport, Mo. Wire-stretcher	559,265	Apr. 28	3133	757	75	639
Coombs, Abram L., Cliftondale, Mass., assignor to Union Special Sewing Machine Company, Chicago, Ill. Needle-bar for sewing machines	558,449	Apr. 14	1657	398	75	331
Coombs, Stephen H., Helena, Mont. Batter-mixer, &c	573,208	Dec. 15	1973	475	77	1691
Coon, Benjamin F., Jamaica, Iowa. Wind-engine	555,929	Mar. 10	762	124	74	1292
Cooney, James E. (See Lane and Cooney.)						
Cooney, Laura S., Brooklyn, N. Y. Suspenders	562,582	June 23	2658	644	75	1930
Cooney, Laurence, <i>et al.</i> (See Cooney, Luke, Jr., assignor.)						
Cooney, Luke, Jr., assignor, by mesne assignments, to V. T. Barker, trustee, Kalamazoo, Mich. Cash-register	565,962	Aug. 18	1859	452 453 454	76	1001
Cooney, Luke, Jr., assignor of one-fourth to L. Cooney, Kalamazoo, Mich. Cash-register	565,963	Aug. 18	1867	455 456	76	1003
Cooney, Luke, Jr., Chicago, Ill., assignor, by mesne assignments, to V. T. Barker, trustee, Kalamazoo, Mich. Cash-register	565,964	Aug. 18	1875	456 457	76	1005
Cooney, Luke, Jr., assignor to M. H. Lane, F. B. Lay, H. P. Kauffer, and L. Cooney, Kalamazoo, Mich. Cash-register	555,302	Feb. 25	2673	626 627	74	1053
Cooney, Sebern A., New York, N. Y., assignor of one-half to John A. Roebling's Sons Company, Trenton, N. J. Cable-railway	564,184	July 21	1685	394	76	342
Coons, James, New York, N. Y. Combined gas-meter and gas-regulator	573,863	Dec. 29	3195	761	77	1951
Coony, Thomas V., Albuquerque, N. Mex. Ter. Valve	557,975	Apr. 7	799	191	75	151
Cooper, Alfred J., Duryea, Pa. Coal and rock drilling machine	565,840	Aug. 11	1623	397	76	938
Cooper, Arthur L., and F. A. Colver, Frankfort, Ind. Gate	557,491	Mar. 31	3583	858	74	1872
Cooper, Ashley R., Mooresville, Ind. Steam-boiler	572,194	Dec. 1	172	41, 42	77	1311
Cooper, Charles. (See Barratt, William T., assignor.)						
Cooper, Charles. (See Hurley, Daniel, assignor.)						
Cooper, Charles F., <i>et al.</i> (See Hermite, Eugene, assignor.)						
Cooper, Charles W., New York, N. Y. Process of and apparatus for making glue	552,894	Jan. 14	753	183 184 185 186	74	155
Cooper, Charles W., New York, N. Y. Apparatus for evaporating liquids	553,841	Feb. 4	52	11	74	515
Cooper, Daniel M. (See Hagen and Cooper.)						
Cooper, Dyer, Philadelphia, Pa. Valve mechanism	553,776	Jan. 28	2294	544	74	473
Cooper, Edgar W., East Lake, Mich. Salt-packer	563,260	July 7	50	12	76	11
Cooper, Ella H., Meriden, Conn. Bicycle-skirt	555,211	Feb. 25	2506	501	74	1021
Cooper, Emily, Philadelphia, Pa. Belt	554,478	Feb. 11	1211	282	74	745
Cooper, Frank J., Toledo, Ohio, assignor to A. Mester. Metal wheel	554,054	Feb. 4	459	102	74	588
Cooper, Frank J., Toledo, Ohio, assignor to A. Mester. Metal wheel	554,055	Feb. 4	459	103	74	589
Cooper, Henry. (See Robertson and Cooper.)						
Cooper, Herbert, Jersey City, N. J. Apparatus for moistening air	565,604	Aug. 11	1206	290	76	859
Cooper, Herbert, Jersey City, N. J., assignor to I. Stern, New York, N. Y., and L. Klein, Danville, Ohio. Hair-clipping machine	566,377	Aug. 25	2582	630	76	1156
Cooper, Herbert W., Moline, Ill. Trace-carrier	555,678	Mar. 3	337	77	74	1190
Cooper, Jacob P., Edinburg, Ill. Buggy-seat	566,141	Aug. 18	2174	529	76	1061
Cooper, James, New York, N. Y. Chair-brace	572,409	Dec. 1	582	138	77	1389
Cooper, James A. (See Edwards, James A., assignor.)						
Cooper, James G., Cincinnati, Ohio. Steam-generator	558,778	Apr. 21	2217	534 535	75	449
Cooper, James G., Cincinnati, Ohio. Steam-generator	558,779	Apr. 21	2222	535	75	451
Cooper, James W., Mayesville, S. C. Saw cotton-gin	562,363	June 16	2284	555	75	1843
Cooper, John A., assignor of two-thirds to C. M. and J. B. Rasco, Rogers Prairie, Tex. Pinless clothes-line	566,711	Aug. 25	3150	770	76	1261
Cooper, John J., Providence, R. I. Hose-mender	567,962	Sept. 22	2132	514	76	1722
Cooper, John M. (See Johnston and Cooper.)						
Cooper, John W., Temperance, Mich. Vestibule-car	566,712	Aug. 25	3151	770 771	76	1261
Cooper, Newton A., Winchester, Va. Car-coupling	564,973	Aug. 4	26	5	76	622
Cooper, Samuel M., Chanute, Kans. Window-cleaning bracket	564,272	July 1	1829	428	76	369
Cooper, Thomas, King's Lynn, England. Machinery for cultivating and clearing land	571,082	Nov. 10	1191	280	77	888
Cooper, William, Schenectady, N. Y., assignor to General Electric Company, of New York. Lightning-arrester	561,073	May 26	3145	726 727	75	1349
Cooper, William, Schenectady, N. Y., assignor to General Electric Company, of New York. Dynamo-electric machine	563,911	July 14	1184	279	76	237
Cooper, William, Schenectady, N. Y., assignor to General Electric Company, of New York. Trolley-wire hanger	566,376	Aug. 25	2580	630	76	1155
Cope, Alvinza H., Danville, Cal. Almond-sheller	567,736	Sept. 15	1748	418	76	1635
Cope, George W., assignor to Art Stove Company, Detroit, Mich. Coal-stove	569,176	Oct. 13	787	184	77	166
Cope, John C., <i>et al.</i> (See Hand, Townsend, assignor.)						
Cope, Thomas J., Philadelphia, Pa. Apparatus for threading conduits or pipes	563,360	July 7	215	48	76	44
Copeland, Frank W., <i>et al.</i> (See Schroyer, Stephen, assignor.)						
Copeland, George A. (See Mitchell, Andrew W., assignor.)						
Copeland, George W. (See Crisp and Copeland.)						
Copeland, George W., Malden, E. F. Crisp, Somerville, E. F. Grandy, and W. Avery, Everett, Mass., assignors to Copeland Rapid Laster Manufacturing Company. Lasting-machine	558,043	Apr. 14	967	236	75	199
Copeland, James E., Round Hill, and J. A. Nesmith, Paxson, Va. Swinging gate	564,870	July 28	2847	682	76	572
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Vehicle-wheel	556,004	Mar. 10	902	216	74	1319
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Velocipede	558,260	Apr. 14	1330	324	75	269
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Frame for velocipedes	562,067	June 16	1796	434	75	1752
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Wheel for vehicles	574,194	Dec. 29	3842	916	77	2067
Copeland Rapid Laster Manufacturing Company. (See Copeland, Crisp, Grandy, and Avery, assignors.)						
Copeland Rapid Laster Manufacturing Company. (See Snow, Stephen, assignor.)						
Copeland, Robert J., New York, and H. E. Dade, Brooklyn, N. Y. Binder and sheets therefor	555,930	Mar. 10	763	184	74	1292
Copeland, Wesley A., C. Roberts, and T. J. McCrary, Alvord, Tex. Calculator	569,544	Oct. 13	1415	334	77	284
Copland, Henry M., Scottsburg, Oreg. Ore-separator	570,843	Nov. 3	773	176	77	782

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Coplin, David, assignor of one-fourth to B. Waber, Philadelphia, Pa. Life-preserver	563,747	July 14	865	206	76	178
Copp, David E., Woodstock, Va. Hame-fastener	566,142	Aug. 18	2175	529	76	1061
Coppertbrite, Henry. (See Shipman, Charles F., assignor.)						
Coppin, Daniel G., Newport, Ky., assignor to Blymyer Iron-Works Company, Cincinnati, Ohio. Cane-mill	558,638	Apr. 21	1974	479	75	405
Coram, John C., Lowell, assignor of one-half to D. M. Belches, Brookline, Mass. Cone for winding						
Corbet, Denys W., Brooklyn, N. Y. Lantern	555,564	Mar. 3	134	31	74	1155
Corbet, Denys W., Brooklyn, N. Y. Lantern	554,863	Feb. 18	1890	442	74	889
Corbett, Edward. (See Long and Corbett.)	565,156	Aug. 4	385	90	76	689
Corbett, Joseph, Brooklyn, assignor of one-half to H. C. Berlin and T. F. Shaw, New York, N. Y. Steam-generator	566,664	Aug. 25	3059	{ 747 748 }	76	1247
Corbett, Joseph, Brooklyn, assignor of one-half to H. C. Berlin and T. F. Shaw, New York, N. Y. Power-generator	566,713	Aug. 25	3152	771	76	1262
Corbin, Charles B., assignor of one-half to W. T. Lamoreaux, Grand Rapids, Mich. Scissors-sharpener	559,570	May 5	376	91	75	755
Corbin, George A. (See Harris and Corbin.)						
Corcoran, Richard M., Toledo, Ohio. Sheet-metal sprocket-wheel	567,294	Sept. 8	994	236	76	1479
Corcoran, W. D. (See Capper, Charles, assignor.)						
Cordeiro, Frederick J. B., U. S. Navy. Telemeter	565,841	Aug. 11	1625	398	76	938
Cordes, August F. (See Bamford, George W., assignor.)						
Cordray, Henry A., Brenham, Tex. Construction of doors or window-sashes	564,780	July 28	2701	642	76	544
Core, George I., et al. (See Meyers, Charles S., assignor.)						
Corelle, Lewis, et al. (See Dreisbach, Amos M., assignor.)						
Corey, Amos B. (See Corey and Wattis.)						
Corey, Charles J. and A. B., and E. O. Wattis, Ogden, Utah. Grading and ditching machine	559,165	Apr. 28	2937	{ 709 710 }	75	603
Cork, William H. (See Hopkins, Meshach, assignor.)						
Corkhill, Henry R., Jr., assignor to Stecher Lithographic Company, Rochester, N. Y. Machine for making shells for sliding boxes	554,987	Feb. 18	2088	{ 496 497 498 }	74	928
Corkhill, Henry R., Jr., assignor to Stecher Lithographic Company, Rochester, N. Y. Apparatus for making paper-box blanks	569,957	Oct. 20	2180	517	77	438
Corliss, William, Providence, R. I. Mechanism for varying speed	569,369	Oct. 13	1128	269	77	232
Corliss, William, Providence, R. I. Wheel-tire	569,370	Oct. 13	1130	269	77	232
Cormack, George H., Rockford, Ill. Grain-drier	570,662	Nov. 3	457	107	77	724
Corn, James M., Tempe, Ariz. Ter. Water-elevator	573,963	Dec. 29	3384	809	77	1986
Corne, Noah F., Saluda, N. C. Car-brake	570,004	Oct. 27	2260	537	77	465
Corneau, Arnidas J., assignor to Rotary King Manufacturing Co., Westfield, Mass. Mechanical movement	569,006	Oct. 6	504	114	77	96
Cornelius, Louis A. (See Cahill, Thomas J., assignor.)						
Cornell, Charles W., East Orange, N. J., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Signal-box	568,335	Sept. 29	2813	676	76	1862
Cornell, David F., North Fork, Pa. Tool-carriage for lathes	559,482	May 5	233	52	75	727
Cornell, Evan W., assignor of one-half to Cornell & Knapp Co., Adrian, Mich. Can-case-filling machine	560,058	May 12	1307	{ 293 294 }	75	942
Cornell, Evan W., and F. H. Knapp, Adrian, Mich. Attachmen for can-labeling machines	561,656	June 9	1056	255	75	1595
Cornell, Joseph, Potsdam, N. Y. Extension-table	565,070	Aug. 11	1325	320	76	882
Cornell & Knapp Co. (See Cornell, Evan W., assignor.)						
Cornely, Emile and R., Paris, France. Embroidering-machine	566,061	Aug. 18	2034	{ 493 494 }	76	1037
Cornely, Robert. (See Cornely, Emile and R.)						
Cornes, Mary A., Buffalo, N. Y. Drier	560,975	May 26	2991	687	75	1320
Cornish, Nathan, Garner, Iowa. Attachment for straw-stackers	561,093	June 2	29	8	75	1373
Cornwall, John B., Moline, Ill. Combined corn sheller and cleaner	572,084	Nov. 24	2963	{ 696 697 }	77	1252
Cornwall, John B., assignor to Barnard & Leas Manufacturing Company, Moline, Ill. Tubular grain-separator	569,089	Oct. 6	641	146	77	123
Corre, Albert G. (See Granville, Bernard, assignor.)						
Corron, Cesar, Lyons, France. Apparatus for dyeing	563,569	July 7	571	132	76	107
Corrothers, Andrew J. (See Ransom and Corrothers.)						
Corscaden, Robert, Providence, R. I. Vapor-lamp	561,967	June 16	1612	392	75	1720
Corscaden, Thomas, New Britain, Conn. Shelf-bracket	553,497	Jan. 21	1812	430	74	367
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Blind-hinge	553,955	Feb. 4	282	63	74	556
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Shelf-bracket	555,732	Mar. 3	404	93	74	1202
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Shelf-bracket	557,492	Mar. 31	3585	859	74	1872
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Antifriction-hinge	563,450	July 7	362	83	76	70
Corser, Brackett G., Brattleborough, Vt. Slide for suspenders	568,128	Sept. 22	2461	591	76	1780
Corser, Lorenzo D., Bridgeton, Me. Cow-tail holder	562,379	June 23	2314	562	75	1865
Corson, William L. (See Daly and Corson.)						
Cortland, Harvey, Toledo, Ohio. Double-acting thermostat	563,138	June 30	3671	879	75	2144
Cory, Randolph P., assignor of one-third to J. Baron, St. Louis, Mo. Choke attachment for guns	555,432	Feb. 25	2903	690	74	1095
Cost, Joseph G., Tippecanoe City, Ohio. Awning	562,458	June 23	2444	593	75	1890
Costello, John J. (See Merritt, Otis J., assignor.)						
Costello, Simon, Greenwich, Conn. Bottle	571,430	Nov. 17	1777	424	77	1012
Coster, Frank, College Point, N. Y. Label for rolls of ribbon	560,690	May 26	2497	573	75	1236
Costigan, Dennis W., Providence, R. I. Gem-setting	573,139	Dec. 15	1857	447	77	1671
Coston, Clarence L., and E. W. Broadhead, Mancos, Colo. Wagon-box iron	566,062	Aug. 18	2036	494	76	1037
Coston, William F., New York, N. Y. Pyrotechnic-signal holder	570,458	Nov. 3	32	7	77	644
Cota, Louis P., and I. L. Edwards, Aurora, Ill. Farm-gate	572,473	Dec. 1	672	{ 159 160 }	77	1406
Cotter, Charles A. (See Dever and Cotter.)						
Cotter, Charles A., assignor to Randolph & Clowes, Waterbury, Conn. Metal bracket	557,111	Mar. 31	2893	691	74	1745
Cotter, Timothy, and T. H. Walker, assignors of one-third to J. McDonnell, Kansas City, Mo. Composition of matter	569,859	Oct. 20	2008	.....	77	406
Cottet, Jules, Morez-du-Jura, France, assignor to J. Raphael, London, England. Pincenez	560,895	May 28	2870	658	75	1297
Cottingham, Robert C., Moberly, Mo. Inhaler	556,335	Mar. 17	1554	364	74	1452
Cottle, John W., Leavenworth, Kans. Gate	567,222	Sept. 8	848	201	76	1454
Cottle, Thomas M., Albertville, Ala. Spring bed-bottom	568,745	Oct. 6	53	13	77	13
Cotton Bros. & Co. (See Reom, Nelson Z., assignor.)						
Cotton Gunners Compress Company. (See Swenson, Magnus, assignor.)						
Cottrell, Charles P., Stonington, Conn. Offset mechanism for printing-machines	560,345	May 19	1839	419	75	1089
Cottrell, Charles P., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, Stonington, Conn., and New York, N. Y. Toothed rack for printing or other machines	574,195	Dec. 29	3843	917	77	2067

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Cottrell, Charles P., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, Stonington, Conn., and New York, N. Y. Toothed rack for printing or other machines	574,196	Dec. 29	3844	917	77	2067
Cottrell, Edgar H., Stonington, Conn., assignor to C. B. Cottrell & Sons, Westerly, R. I. Holder for electrotype and stereotype plates	572,695	Dec. 8	1071	{ 260 261 }	77	1502
Cottrell, George R., New York, N. Y., assignor of one-half to W. W. Dudley and F. C. Browne, Washington, D. C. Apparatus for mixing gas and air	556,490	Mar. 17	1836	428	74	1507
Cottrell & Sons, C. B. (See Cottrell, Edgar H., assignor.)						
Cottrell, Thomas H., Annville, Pa. Animal trap	563,748	July 14	867	206	76	178
Cottrell, William C., Asbury Park, N. J. Trolley-wheel	563,749	July 14	868	206	76	178
Couch, Charles A., Boston, Mass. Locomotive	562,583	June 23	2660	644	75	1931
Couch, Franklin L., Boston, Mass. Damper	556,738	Mar. 24	2250	526	74	1600
Cough, Adoniram B., Tremont, Me. Flower-holder	556,920	Mar. 24	2568	604	74	1659
Coughlin, William T., Bessemer, Ala. Foundry-ladle	553,055	Jan. 14	1035	252	74	208
Cougill, George W., Humphreys, Mo. Screen-door-opening device	560,478	May 19	2079	473	75	1133
Coulling, Charles K., et al. (See Carlie, George F., assignor.)						
Coulling, William M., et al. (See Carlie, George F., assignor.)						
Coulon, Georges, Paris, France. System of securing Vignoles rails to transverse or longitudinal sleepers	561,968	June 16	1612	392	75	1720
Coulson, Austin A., et al. (See Henery, Alvanes G., assignor.)						
Coulson, William H., Jersey City, N. J. Glazed structure	560,059	May 12	1311	294	75	943
Coulston, J. Warren, et al. (See Criswell, James A., assignor.)						
Coults, Thomas, Pittsburg, Pa. Explosive valve for blast-furnaces	553,956	Feb. 4	283	63	74	556
Coults, William L., Jr., assignor to W. L. Coultas, Sr., Brooklyn, N. Y. Spindle for reeling or rolling paper	559,682	May 5	560	132	75	789
Coulter & McKenzie Machine Company. (See Bannister, John, assignor.)						
Coup, John, Cleveland, Ohio. Drawbridge safety appliance	561,375	June 2	553	139	75	1477
Coup, John, Cleveland, Ohio. Drawbridge safety device	562,805	June 30	3047	{ 736 737 738 }	75	2021
Coupal, Joseph, trustee. (See Coupal and Gray, assignors.)						
Coupal, Joseph, Winchester, and L. E. Gray, Boston, assignors of one-third to J. Coupal, trustee, Winchester, Mass. Coin-controlled playing-card holder	573,810	Dec. 22	3085	733	77	1917
Coupal, Peter A., Boston, Mass., assignor to Goodyear Shoe Machinery Company, Portland, Me. Machine for indenting surfaces	530,976	May 26	2992	{ 687 688 }	75	1320
Coupland, Charles, and F. Pearson, Seymour, Conn. Loom for weaving pile fabrics	569,814	Oct. 20	1934	460	77	392
Coupland, Lemuel B. (See Covell, Milo, assignor.)						
Cournyer, Albert R. (See Cournyer, John B. and A. R.)						
Cournyer, John B., Coopersville, and A. R. Cournyer, Fruitport, Mich. Wagon-dump	572,630	Dec. 8	955	231	77	1480
Coursac, Jacques F. M. H. de. (See Pascault and Coursac.)						
Coursen, Robert R., Newark, N. J. Saw-toothing machine	567,295	Sept. 8	995	237	76	1479
Coursen, Robert R., Newark, N. J. Saw-filing machine	567,296	Sept. 8	996	237	76	1479
Coursen, Robert R., Newark, N. J. Saw-setting machine	569,545	Oct. 13	1416	335	77	284
Court, John S., Springdale, Tenn. Wheel	564,473	July 21	2160	506	76	428
Courtney, John I. (See King, Frank, assignor.)						
Courtland Machine Company of Baltimore City. (See Hazell, Joseph W., assignor.)						
Courtland Machine Company of Baltimore City. (See Prunty, John E., assignor.)						
Courtney, Herbert F., and F. Schwartz, assignors of one-third to J. B. Kimes, Philadelphia, Pa. Apparatus for making fertilizers	572,965	Dec. 15	1552	372	77	1612
Courtney, Thomas L., Pettaway, Tex. Muzzle-yoke	556,306	Mar. 10	1500	348	74	1426
Courtright, Albert S., and C. W. Meggenhofen, assignors to Indianapolis Wrench and Stamping Company, Indianapolis, Ind. Wrench	562,709	June 23	2872	697	75	1970
Courtright, George C., et al. (See McCann, William B., assignor.)						
Courtright, George C., and J. W. Purdy, Philadelphia, Pa. Rotary tooth-brush	569,409	Oct. 13	1201	283	77	244
Courvoisier, De Forrest R., Pine Bluff, Ark. Automatic fire-lighter	557,254	Mar. 31	3167	760	74	1791
Cousy, Constant E., New York, N. Y. Pencil-sharpener	572,868	Dec. 8	1359	329	77	1557
Coutant, Oscar Z., Chicago, assignor to D. R. Armstrong, Evanston, Ill. Car-coupling	554,413	Feb. 11	1099	256	74	724
Coutinho, Manoel V., Para, Brazil. Aerostat	556,621	Mar. 17	2061	482	74	1547
Coutineau, Henri E., Lille, France. Apparatus for printing or impressing designs, patterns, or outlines for garments	567,886	Sept. 15	1997	479	76	1684
Covel, Milo, Chicago, Ill. Ore mining and separating machine	558,674	Apr. 21	2047	{ 493 494 }	75	417
Covel, Milo, assignor to L. B. Coupland, Chicago, Ill. Dish-washer	557,112	Mar. 31	2893	691	74	1745
Cover, John W., and M. O. Tibbitts, Everett, Wash. Cable-clip	554,335	Feb. 11	962	{ 222 223 }	74	698
Covert, Enoch, Farmer, N. Y. Lifting-jack	558,581	Apr. 21	1884	456	75	388
Covert, Henry H., Brooklyn, assignor of one-half to H. E. Bedell, New York, N. Y. Bicycle-rest	563,570	July 7	574	132	76	107
Cowan, George W., Cannonsburg, Pa. Bread-raising apparatus	554,479	Feb. 11	1212	282	74	745
Cowan, Henry. (See Williams, George W., assignor.)						
Cowan, William P., Chicago, Ill. Apparatus for treating paraffin-wax, &c	558,358	Apr. 14	1482	{ 364 365 }	75	298
Coward, Percie H. (See Di Vecchio and Coward.)						
Coward, William H., London, England. Apparatus for concentrating, grading, or classifying crushed ores, &c	574,241	Dec. 29	3936	936	77	2085
Cowart, Andrew M. (See Daughtrey and Cowart.)						
Cowart, Andrew M., Punta Gorda, Fla. Bottle-sealing device	571,262	Nov. 10	1499	353	77	945
Cowburn, James, and C. Peck, Eccles, England. Shuttle-box-operating mechanism for looms	563,020	June 30	3449	{ 829 830 831 }	75	2103
Cowburn, Thomas, Gloucester, England. Boot or shoe pegging machine	558,261	Apr. 14	1331	{ 325 326 327 }	75	269
Cowdrey, Charles F. (See Keyes and Cowdrey.)						
Cowdrey, Charles H., Fitchburg, Mass. Machine for dressing wheel-rims or the like	562,172	June 16	1961	476	75	1784
Cowen, Charles B., et al. (See Yost, George B., assignor.)						
Cowen, John, Hartford, Conn. Sprocket-wheel	568,837	Oct. 6	204	49	77	40
Cowen, Robert, Cambridge, assignor to Boston Woven Hose and Rubber Company, Boston, Mass. Manufacturing tires	565,854	Aug. 11	1659	407	76	945
Cowgill, Jonette, Ottawa, Kans. Scrubbing-machine	558,934	Apr. 28	2494	606	75	519
Cowhig, John J., Manassas, Va. Annunciator time-caller for railway-trains	568,430	Sept. 29	2969	{ 713 714 }	76	1892
Cowles, Samuel H., Oakville, Conn. Antifriction-bearing	558,044	Apr. 14	969	237	75	200
Cowles, William B., Cleveland, Ohio. Hydraulic system for closing water-tight bulkheads on board ships	564,474	July 21	2161	{ 506 507 }	76	428
Cowley, Edward J., Boise, Idaho. Gold-washing machine	563,021	June 30	3458	831	75	2104

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Cowley, James T., Lowell, assignor to Lamson Consolidated Store Service Company, Boston, Mass. Store-service apparatus.	562,584	June 23	2662	{ 644 645 }	75	1931
Cowley, James T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Cash-carrier apparatus.	568,716	Sept. 29	3504	{ 838 839 840 }	76	1992
Cowley, James T., Lowell, Mass., assignor, by mesne assignments, to American Metallic Cushion Company, of West Virginia. Seat or cushion.	569,784	Oct. 20	1888	448	77	383
Cowperthwait, Allan, Montreal, Canada. Holder for broom-backs.	557,303	Mar. 31	3255	{ 780 781 }	74	1808
Cox, Allen L., Wise, Ala. Baling-press.	563,451	July 7	364	84	76	70
Cox, Benjamin L., Alliance, Ohio. Cloth-laying machine.	573,448	Dec. 22	2450	581	77	1796
Cox, Charles D. (See Gray, Frank, assignor.)						
Cox, Charles H., assignor of one-half to S. P. Gardner, Haverhill, Mass. Sand-box for electric or other cars.	556,712	Mar. 17	2192	512	74	1572
Cox, Charley G., et al. (See Andrews, Samuel S., assignor.)						
Cox, Daniel, and L. Spence, Martin's Ferry, Ohio. Tin-plate cleaning and polishing machine.	569,090	Oct. 6	643	147	77	123
Cox, David H., Jr., Elizabeth, N. J. Tire-repairing device.	566,562	Aug. 25	2919	712	76	1220
Cox, Frank P., Lynn, Mass., assignor to General Electric Company, of New York. Aging permanent magnets.	558,045	Apr. 14	970	237	75	200
Cox, Frank S., assignor of two-thirds to G. E. Green, Binghamton, N. Y., and H. J. Truesdell, Montclair, N. J. Time-recorder.	554,581	Feb. 11	1377	{ 323 324 }	74	778
Cox, George W. (See Hanke, Cox, and Wilson.)						
Cox, Harry B., Hartford, Conn. Thermo-electric generator.	561,657	June 9	1058	256	75	1595
Cox, Harry W. C., and R. J. Crowley, assignors to J. C. Fell and R. W. James, London, England. Facsimile telegraphy.	566,298	Aug. 25	2418	594	76	1126
Cox, Henry T. (See Herkomer and Cox.)						
Cox, J. Otis, et al. (See Brooks, Stephen H., assignor.)						
Cox, William A. (See Avery, William C., assignor.)						
Cox, William H., Virden, Ill. Dish-cleaner.	562,710	June 23	2874	{ 697 698 }	75	1970
Coxe, Alexander B., et al., executors. (See Coxe, Eckley B.)						
Coxe, Alexander B., et al., executors. (See Richards, Francis H., assignor.)						
Coxe, Eckley B., deceased, Drifton, Pa.; A. B. and H. B. Coxe executors. Apparatus for jiggling coal.	556,739	Mar. 24	2251	526	74	1600
Coxe, Eckley B., deceased; A. B. Coxe, Drifton, Pa., and H. B. Coxe, New York, N. Y., executors. Art of and apparatus for controlling operations of traveling-grate furnaces.	562,068	June 16	1798	435	75	1753
Coxe, Eckley B., deceased; A. B. Coxe, Drifton, Pa., and H. B. Coxe, New York, N. Y., executors. Traveling grate.	562,069	June 16	1803	435	75	1753
Coxe, Henry B., et al., executors. (See Coxe, Eckley B.)						
Coxe, Henry B., et al., executors. (See Richards, Francis H., assignor.)						
Coy, George W., Milford, Conn. Telephone-switch.	552,516	Jan. 7	25	8	74	8
Coy, George W., Milford, Conn. Telephone-switch.	552,705	Jan. 7	357	94	74	69
Coy, George W., Milford, Conn. Telephone-switch.	552,866	Jan. 7	686	167	74	129
Coy, George W., Milford, Conn. Desk telephone apparatus.	552,867	Jan. 7	687	167	74	129
Coyle, Bernard J., et al. (See Atkinson, Mahlon B., assignor.)						
Coyle, Robert. (See Atkins and Coyle.)						
Coyle, Robert. (See Wallace and Coyle.)						
Coyne, John, Pittsburg, Pa. Grinding-machine.	554,480	Feb. 11	1213	{ 283 284 }	74	745
Coyne, John, Pittsburg, Pa. Machine for shaping sleeve-nuts, &c.	554,481	Feb. 11	1215	{ 284 285 }	74	746
Coyte, Joseph S., New York, N. Y. Making gutta-percha cloth.	562,281	June 16	2142	521	75	1817
Crabb, James N., Indianapolis, Ind. Stopper for washbasins and bath-tubs.	559,845	May 12	902	201	75	866
Crabb, William, Des Moines, Iowa. Wire fence.	554,774	Feb. 18	1722	404	74	859
Crabtree, David. (See Crabtree, William A. and D.)						
Crabtree, John, Philadelphia, Pa. Brick-machine.	571,750	Nov. 24	2348	{ 561 562 }	77	1136
Crabtree, William A. and D., Shipley, England. Loom pattern-chain.	568,162	Sept. 22	2516	606	76	1791
Cracknell, Richard J., Rochester, England. Refrigerating machinery.	572,696	Dec. 8	1072	261	77	1502
Craft, Thomas. (See Martin, McCarty, and Craft.)						
Crahan, William, assignor of one-half to H. G. Byram, Indianapolis, Ind. Embossing-machine.	556,491	Mar. 17	1838	{ 428 429 }	74	1507
Crahen, Martin. (See Ward and Crahen.)						
Craig, Burton S., assignor of one-half to J. Peterson, Clinton, Iowa. Snow-melting machine.	557,976	Apr. 7	801	191	75	151
Craig, George, Glasgow, Scotland. Purifying ammonium nitrate.	573,964	Dec. 29	3385	810	77	1986
Craig, Gilbert T., New York, assignor to R. H. Mayland and J. H. Foote, Brooklyn, N. Y. Musical instrument.	569,707	Oct. 20	1756	417	77	360
Craig, James, et al. (See Berrighin, Peter H., assignor.)						
Craig, Lee D., San Francisco, Cal. Bicycle-alarm.	556,459	Mar. 17	1786	414	74	1496
Craig, Thomas H., assignor of one-half to W. B. McSkimmon, Philadelphia, Pa. Differential spur-gear hoist.	554,658	Feb. 18	1527	361	74	821
Craig, Warren H., Lawrence, Mass. Plate-lifter.	561,969	June 16	1614	392	75	1730
Crain, Frank D., Maumee, Ohio. Dish-cleaner.	559,933	May 12	1675	239	75	898
Crakauer, Felix, Wiesbaden, Germany. Apparatus for producing patterns.	558,780	Apr. 21	2224	{ 535 536 }	75	451
Cram, Alonzo W., Haverhill, Mass. Tea-kettle.	562,761	June 23	2963	717	75	1989
Cram & Co., Milan C., et al. (See Winn, Alby C., assignor.)						
Cram, William E., Boston, Mass. Electric gas-lighting burner.	569,785	Oct. 20	1890	448	77	384
Cramblitt, Frank, Baltimore, Md. Key-seat rule.	568,192	Sept. 22	2568	618	76	1800
Cramblitt, Frank, Baltimore, Md. Reversible window-sash.	573,261	Dec. 15	2062	494	77	1708
Cramer, Clara J., Griswold, Iowa. Adjustable ironing-board.	563,844	July 14	1052	248	76	212
Cramer, Edward D. (See Rooks, Alva N., assignor.)						
Cramer, John, assignor of two-thirds to J. C. Shank and T. C. Hipple, Lock Haven, Pa. Bridle-bit.	574,304	Dec. 29	4038	959	77	2104
Crampton, Orlando W., et al. (See Hann, Francis S., assignor.)						
Crandall, Emmet M., St. Joseph, Mo. Steam, air, or water motor.	569,546	Oct. 13	1417	335	77	284
Crandall, Frederick D., assignor of five-twelfths to F. J. Hamilton, Sturgeon Bay, Wis. Car-coupling.	558,359	Apr. 14	1487	365	75	299
Crandall, Henry F., Milwaukee, Wis., assignor to Milwaukee Harvester Company, of Wisconsin. Automatic locking and unlocking device.	566,844	Sept. 1	187	42, 43	76	1318
Crandall, Henry F., and E. J. Birkett, assignors to Milwaukee Harvester Company, Milwaukee, Wis. Driving connection for harvesters.	568,893	Oct. 6	304	70	77	58

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			Spec.	Dr'g.	Vol.	Page.
Crandall, John W., Jeffersonville, Ind. Combined snap hook and buckle.....	570,277	Oct. 27	2751	655	77	559
Crane, Charles A. (See Hastings, James T., assignor.)						
Crane Company. (See Doolittle, William W., assignor.)						
Crane Company. (See Hayden, George W., assignor.)						
Crane Company. (See Hayden, James T., assignor.)						
Crane Company. (See Synnestrødt, Paul, assignor.)						
Crane Company. (See Winne, Frank N., assignor.)						
Crane & Company. (See Knight, Jonathan L., assignor.)						
Crane, Daniel, Saginaw, Mich. Gang-saw mill.....	562,217	June 16	2035	{ 492 493 }	{ 75 }	1798
Crane Elevator Company. (See Heermans, Thaddens W., assignor.)						
Crane Elevator Company. (See Reynolds, George H., assignor.)						
Crane, Elizabeth E. (See Crane, Thomas R., assignor.)						
Crane, Moses G. (See Ruddick, John J., assignor.)						
Crane, Moses G., Newton, Mass., assignor to E. Hudson, Hartford, Conn. Stereopticon...	556,531	Mar. 17	1923	{ 448 449 }	{ 74 }	1322
Crane, Newton, Newton, assignor of one-half to L. R. Lincoln, Brookline, Mass. Roll-holding camera.....	567,297	Sept. 8	998	237	76	1479
Crane, Richard T. (See Doolittle, William W., assignor.)						
Crane, Richard T., Chicago, Ill. Elevator controlling mechanism.....	556,921	Mar. 24	2369	605	74	1659
Crane, Thomas, assignor of one-half to C. A. Caswell, Fort Atkinson, Wis. Animal-trap.....	566,502	Aug. 25	2832	689	76	1302
Crane, Thomas R., Baltimore, Md., assignor to E. E. Crane, Heathsville, Va. Feed for pea-planters.....	555,896	Mar. 3	701	169	74	1260
Crane, Thomas R., Baltimore, Md., assignor to E. E. Crane, Heathsville, Va. Combined seed and fertilizer distributor.....	555,897	Mar. 3	702	169	74	1260
Crane, Walter E., Hartford, Conn. File-box.....	562,950	June 30	3335	802	75	2080
Crane, Thomas, Bay City, Mich. Process of and apparatus for making carbonates of soda.....	552,895	Jan. 14	767	186	74	157
Crane, Thomas, Bay City, Mich. Process of and apparatus for manufacture of sodium carbonate.....	552,955	Jan. 14	871	211	74	177
Crane, Thomas, Bay City, Mich. Evaporating apparatus.....	572,333	Dec. 1	437	103	77	1362
Cranford, William J., Spokane, Wash. Plate-lifter.....	557,255	Mar. 31	3169	760	74	1792
Cranford, William J., assignor to J. R. Price, Spokane, Wash. Gate-hinge.....	561,494	June 2	767	188	75	1514
Crank, Albert. (See Gibson and Crank.)						
Crary, Will C., Terre Haute, Ind. Weather-strip.....	568,561	Sept. 29	3212	774	76	1935
Crass, George F., assignor of one-half to B. F. Slocum, Ithaca, N. Y. Chain pipe-wrench.....	555,931	Mar. 10	766	184	74	1293
Crate, John W. (See Teal and Crate.)						
Crater, George W., assignor to Grand Rapids Piano Case Company, Grand Rapids, Mich. Knockdown table.....	565,435	Aug. 11	871	206	76	798
Cravens, James H., and W. L. McGoodwin, Kansas City, Mo. Vending-machine.....	564,871	July 28	2848	{ 682 683 }	{ 76 }	572
Craver, Charles F. (See Appleby, John F., assignor.)						
Craw, Joseph T., Jersey City, N. J., assignor to himself, R. P. Brown, and E. L. Bailey, Philadelphia, Pa. Mechanism for making paper boxes.....	557,557	Apr. 7	39	11	75	9
Craw, Joseph T., Jersey City, N. J., assignor to himself, R. P. Brown, and E. L. Bailey, Philadelphia, Pa. Paper box.....	564,592	July 28	2382	{ 560 561 }	{ 76 }	486
Craw, Joseph T., Jersey City, N. J., assignor to himself, R. P. Brown, and E. L. Bailey, Philadelphia, Pa. Paper box.....	564,593	July 28	2383	561	76	487
Craw, Joseph T., Jersey City, N. J., assignor to himself, R. P. Brown, and E. L. Bailey, Philadelphia, Pa. Knockdown paper box.....	564,594	July 28	2385	562	76	487
Craw, William N. (See Austin and Craw.)						
Crawford, A. H. (See Crews, Jefferson P., assignor.)						
Crawford, Frederick, Toronto, Canada. Metallic shingle.....	553,514	Jan. 28	1843	438	74	389
Crawford, Harvey F., Brockton, Mass. Robe or blanket holder.....	561,376	June 2	555	140	75	1477
Crawford, John T., Wilsonville, Ala. Rat or vermin proof building.....	574,305	Dec. 29	4039	{ 959 960 }	{ 77 }	2104
Crawford, Jonathan S., Scranton, Pa. Fire-escape.....	570,908	Nov. 10	891	207	77	833
Crawford, Miley P., assignor of one-half to C. Goodman, Roanoke, Va. Car signaling-light.....	567,941	Sept. 15	2091	503	76	1700
Crawford, Nehemiah. (See Barkalow and Crawford.)						
Crawford, Samuel S., Holt, Mo. Wagon end-gate.....	572,869	Dec. 8	1360	329	77	1558
Crawford, Thomas, Green Island, N. Y. Car-truck.....	571,263	Nov. 10	1500	{ 353 354 }	{ 77 }	946
Crawford, Thomas D. (See Knollenberg and Crawford.)						
Crawford, Wesley C., Metamora, Ind. Lifting-jack.....	555,802	Mar. 3	522	127	74	1225
Crawford, William, New York, N. Y. Device for stopping runaway horses.....	552,747	Jan. 7	449	112	74	85
Crawford, William W., assignor to G. E. Kuhn, Wilmerding, and W. S. Guffey, Pittsburg, Pa. Lock-wedge.....	572,291	Dec. 1	360	86	77	1348
Crawley, James E., assignor of one-half to T. L. McGregor, Milwaukee, Wis. Feed-water heater and purifier.....	556,336	Mar. 17	1555	364	74	1452
Creager, Samuel, assignor of one-half to C. S. Emmert, Hagerstown, Md. Stop-motion for knitting-machines.....	569,324	Oct. 13	1054	250	77	217
Creamery Package Manufacturing Company. (See Ames, Charles D., assignor.)						
Crecelius, Louis J., assignor of one-half to W. Grayson, St. Louis, Mo. Mold for casting metal skeleton frames.....	557,190	Mar. 31	3042	{ 728 729 }	{ 74 }	1771
Creecy, Edward W., Washington, D. C. Collar-button.....	563,452	July 7	366	84	76	71
Creedon, Patrick J., Omaha, Nebr. Grading and ditching machine.....	559,026	Apr. 23	2650	{ 645 646 }	{ 75 }	549
Creelman, Alvah L., Chicago, Ill. Block-signal system.....	560,193	May 19	1557	353	75	1042
Crehan, Hubert. (See Oliver and Crehan.)						
Creider, Simon S. (See Chapman and Creider.)						
Creighton, Thomas C., Haywards, Cal. Nail-extractor.....	569,958	Oct. 20	2182	518	77	438
Cre-Ozone Company. (See Stratton and Murdock, assignors.)						
Crepeau, Ovid, South Bend, Ind. Feeder for clover-hullers, thrashers, &c.....	558,935	Apr. 28	2496	606	75	519
Crépet, Victor, Lyons, France. Machine for goffering velvet.....	560,479	May 19	2080	474	75	1133
Crescent Novelty Manufacturing Company. (See Meier, Robert G. A., assignor.)						
Crescent Watch Case Company. (See Smith, Irving, assignor.)						
Cress, Leonidas H. (See Darling, John, assignor.)						
Creveling, William C., assignor of two-thirds to Z. A. Barrett and R. Dwyer, Chicago, Ill. Device for starting race-horses.....	567,298	Sept. 8	1002	238	76	1480
Crews, Jefferson P., Denver, assignor of one-half to A. H. Crawford, Littleton, Colo. Shaft-tug.....	555,484	Feb. 25	3005	716	74	1114
Cribbs, John R., Verona, Pa. Car-brake.....	560,977	May 26	2994	{ 688 689 }	{ 75 }	1320
Cridde, Oliver, Rochester, N. Y., assignor, by mesne assignments, to Goodyear Shoe Machinery Company, Portland, Me. Machine for lasting toes of boots or shoes.....	560,896	May 26	2871	658	75	1297

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Crilly, Hugh E. (See McGonegal and Crilly.)						
Cripe, Daniel E., Frankfort, Ind. Culinary utensil	568,664	Sept. 29	3422	818	76	1975
Cripe, Samuel, Kokomo, Ind. Dish-cleaner	556,005	Mar. 10	903	216	74	1319
Cripe, Sara E., Indianapolis, Ind. Egg-beater, &c.	554,170	Feb. 4	684	154	74	630
Crippen, George F., Ypsilanti, Mich. Bean picker and cleaner	552,748	Jan. 7	450	112 113	74	85
Crippen, Ira L. (See Rittenhouse and Crippen.)						
Crippen, Ira L. (See Stoney, Crosby, and Crippen.)						
Cripps, Frederick S., London, England. Purifier	561,203	June 2	230	55	75	1412
Crisp, Joseph E. (See Copeland, Crisp, Grandy, and Avery.)						
Crisp, Joseph E., Somerville, Mass. Rotary motor	560,194	May 19	1560	354	75	1042
Crisp, Joseph E., Somerville, Mass. Tack-driving machine	573,449	Dec. 22	2451	582	77	1796
Crisp, Joseph E., Somerville, and G. W. Copeland, Malden, Mass., assignors; by mesne assignments, to Goodyear Shoe Machinery Company, Portland, Me. Hand pegging-machine	569,617	Oct. 20	1568	368	77	327
Crist, John C., assignor of one-half to J. W. Crist, Baltimore, Md. Adjustable trestle	564,048	July 14	1439	335	76	282
Crist, John J., Wichita, Kans. Drill	556,252	Mar. 10	1368	322	74	1402
Crist, Joseph W. (See Crist, John C., assignor.)						
Criswell, James A., assignor to J. W. Coulston and C. O. Baird, Philadelphia, Pa. Car-brake	558,898	Apr. 21	2424	590	75	489
Critchfield, Charles W., et al. (See Shaw, William F., assignor.)						
Crocco, Anthony B., New York, N. Y. Shoe-holder	563,571	July 7	574	132	76	107
Crocker, Benjamin S., Chicago, Ill. Elevating machinery	552,987	Jan. 14	922	224	74	187
Crocker, James A., assignor to International Rolling Screen Company, Boston, Mass. Window-screen	563,948	July 14	1248	291 292	76	247
Crocker, John B., Hamilton, Ohio. Direct-acting pump	571,751	Nov. 24	2351	562	77	1136
Crockett, Henry P. (See Bolenbaugh, Wagner, and Crockett.)						
Croft, William H., Toronto, Canada. Canopy attachment for hammocks	562,803	June 30	3045	736	75	2021
Croghan, Luke J., et al. (See French, Irwin J., assignor.)						
Cromer, Franklin M., Troy, Ohio. Tire-tightener	564,007	July 14	1354	315	76	267
Cromer, Jerome D., Carnesville, Ga. Gin-saw-sharpening machine	553,450	Jan. 21	1723	411	74	351
Cromley, Charley J. (See Carlson, Anders G., assignor.)						
Crompton Loom Works. (See Clark, John A., assignor.)						
Crompton Loom Works. (See Clark, John A. and C., assignors.)						
Crompton Loom Works. (See Wyman, Horace, assignor.)						
Crompton Loom Works. (See Wyman and Clark, assignors.)						
Crompton, Rookes E. B. (See Davis and Crompton.)						
Cromwell, William F., and J. Schoonover, Morganfield, Ky. Wheat mixer and temperer	566,143	Aug. 18	2177	530	76	1062
Cronan, James W., Point Pleasant, Mo. Combined back-band buckle and hook	559,027	Apr. 28	2652	646	75	550
Cronan, William M., et al. (See Clausson, Ole, assignor.)						
Crone, Seth A., New York, N. Y. Fluid-controlled gate	572,410	Dec. 1	582	138 139	77	1389
Cronemeyer, William C., Versailles, Pa. Lock for sheet-metal pipes	564,147	July 14	1603	375	76	316
Cronin, Edward, and H. P. Shields, Homestead, Pa. Metallic tie	570,005	Oct. 27	2263	537	77	466
Cronin, William D., Philadelphia, Pa., assignor to Cycloidal Transit Amusement Company, of New Jersey. Cycloidal chariot	567,580	Sept. 15	1491	357	76	1585
Cronin, William D., Philadelphia, Pa., assignor to Cycloidal Transit Amusement Company, of New Jersey. Cycloidal chariot	567,581	Sept. 15	1493	357 358	76	1585
Cronin, William D., assignor to G. L. Horn, Philadelphia, Pa., M. Senger, and C. A. Baake, Atlantic City, N. J. Cue-rest	570,459	Nov. 3	33	7	77	644
Cronk Hanger Company. (See Watrous, Thomas A., assignor.)						
Cronwall, Carl G., Chicago, Ill. Chronometer-escapement	560,691	May 26	2499	574	75	1226
Cronyn, John L. (See Farrell, Michael, assignor.)						
Crook, Charles M., Elgin, Ill. Self-winding mechanism for electric clocks	573,430	Dec. 15	2405	573	77	1770
Crooker, Edwin R. (See Crooker, George A. and E. R.)						
Crooker, George A. and E. R., Crowley, La. Clothes-pounder	554,440	Feb. 11	1147	267	74	734
Cropper, William N., et al. (See Garred, Ulysses A., assignor.)						
Crosbie, John A., Lawrence, assignor to F. F. Stanley, principal trustee, Swampscott, Mass. Sole-rounding machine	564,148	July 14	1604	376 377	76	316
Crosby, Charles E. (See Stoney, Crosby, and Crippen.)						
Crosby, Edward H., assignor to himself and O. M. Shaw, Boston, Mass. Electric-arc lamp	553,335	Jan. 21	1542	368	74	316
Crosby, Hanford T., Boston, Mass., assignor to Bertrand Sewing Machine Company, Portland, Me. Thread-tension for sewing-machine shuttles	572,334	Dec. 1	438	103	77	1362
Crosby, Hanford T., Boston, Mass., assignor to Bertrand Sewing Machine Company, Portland, Me. Shuttle for sewing-machines	572,335	Dec. 1	439	103	77	1363
Crosby, Hartwell A., assignor to himself and W. C. Renne, Calais, Me. Lamp-burner	566,666	Aug. 25	3066	748	76	1248
Crosby, James H., Somerville, assignor to B. S. Agnew, Boston, Mass. Smoke-consuming furnace	571,752	Nov. 24	2352	562 563	77	1137
Crosby, Lemuel P. (See Bundren and Crosby.)						
Crosby, Oliver, St. Paul, Minn. Sectional derrick	570,124	Oct. 27	2472	585 586	77	507
Crosby, Oliver, St. Paul, Minn. Locomotive-crane	572,195	Dec. 1	174	42, 43	77	1311
Crosby, Oscar T. (See O'Shaughnessy and Crosby.)						
Crosby, Robert H., assignor of two-thirds to C. F. W. Flock and H. K. Smith, Williamsport, Pa. Propelling mechanism	552,576	Jan. 7	123	34	74	23
Crosby Steam Gage and Valve Company. (See Bosworth, Charles B., assignor.)						
Croskey, John H., and J. Locke, Pittsburg, Pa. Making underground conductors	568,298	Sept. 22	2741	658 659	76	1835
Croskey, W. V. B., executor. (See Hobbs, William J.)						
Cross, Albert N., Babcock, Wis. Draft attachment for agricultural machines	565,135	Aug. 4	343	81	76	621
Cross, Albert P., and I. H. Hill, Los Angeles, Cal. Street-sprinkler	571,649	Nov. 17	2149	516	77	1080
Cross, Anson K., Boston, Mass. Drawing-compass	555,803	Mar. 3	524	127	74	1225
Cross, Anson K., Boston, Mass. Crayon or pencil	566,845	Sept. 1	189		76	1318
Cross, Casper, Warsaw, N. Y. Mop-holder	556,253	Mar. 10	1370	322	74	1402
Cross, Edward S., Elyria, Ohio. Curtain-pole	566,665	Aug. 25	3065	748	76	1248
Cross, Frank H. (See Van Wye, Garry P., assignor.)						
Cross, Frank W., Washington, D. C., assignor to Cross Manufacturing Company, of Virginia. Machine for delinting cotton-seed	555,565	Mar. 3	136	31, 32	74	1155
Cross, George W., Pittston, Pa. Bicycle-support	557,191	Mar. 31	3045	729	74	1771
Cross, George W., Pittston, Pa. Cooking utensil	557,256	Mar. 31	3170	761	74	1792
Cross, George W., Pittston, Pa. Separator	570,460	Nov. 3	34	8	77	644
Cross, George W., Pittston, Pa. Screen	572,697	Dec. 8	1074	261	77	1503
Cross, George W., Pittston, Pa. Screen	572,966	Dec. 15	1554	372	77	1612
Cross, James, et al. (See Thomas, Charles H., assignor.)						
Cross Manufacturing Company. (See Cross, Frank W., assignor.)						
Cross, William A., Chicago, Ill. Sliding door for inclosed hatchways	560,396	May 19	1935	442	75	1107

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Cross, William C., Belmont, Ala. Wire-stretcher	563,845	July 14	1053	248	76	212
Crosscup, Daniel L., Philadelphia, Pa. Manufacture of marble, onyx, or similar buttons ..	564,365	July 21	1985	466	76	396
Crossley, Charles, Sudbury, assignor to F. N. Fennell, London, England. Means for treat- ing woven fabrics	569,015	Oct. 6	518	118 119	77	98
Crossley, Francis W., Manchester, and J. Atkinson, Amherst, Fallowfield, England. Gas or oil motor engine	555,898	Mar. 3	703	169 170	74	1260
Crosthwaite, Charles H., Canyon, Colo. Lock-nut	565,842	Aug. 11	1625	398	76	938
Crotty, John S., New York, N. Y. Dress-stay	559,683	May 5	561	132	75	790
Crotty, John S., New York, N. Y. Apparatus for pressing and drying garment-stays ..	571,992	Nov. 24	2775	655	77	1217
Crotty, John S., New York, N. Y. Corset-stiffener	573,570	Dec. 22	2655	631	77	1835
Crouch, Edward M., Hartland, Wis. Wire-stay-weaving device	568,746	Oct. 6	54	13	77	13
Crouch, George, New York, N. Y. Trunk	571,152	Nov. 10	1324	308	77	913
Crouch, Otis E., <i>et al.</i> (See Darling, Ernest T., assignor.)						
Crouch, Walker L., assignor to Pierce-Crouch Engine Company, New Brighton, Pa. Valve device for gas-engines	573,332	Dec. 15	2190	523 524	77	1730
Crouch, Wesley, Rochester, N. Y. Chair-seat	567,639	Sept. 15	1587	382	76	1603
Crouse, Henry W., trustee. (See Carlyle, George, assignor.)						
Crouse, John N. (See Wilkens, John D., assignor.)						
Crouse, Peter J., and E. W. Milgate, Utica, N. Y. Magneto-electric machine	563,453	July 7	367	84, 85	76	71
Crow, Alfred E., New York, N. Y. Berth-step	552,825	Jan. 7	613	149	74	115
Crow, John W., New York, N. Y. Horseshoe-machine	572,870	Dec. 8	1362	329	77	1558
Crowder, John B., Talucah, Ala. Apparatus for handling fence-wire	555,849	Mar. 3	603	143 144	74	1241
Crowder, Samuel R. (See Schaap, Alexander K., assignor.)						
Crowdus, Walter A., Chicago, Ill. Primary battery	555,303	Feb. 25	2678	627	74	1054
Crowdus, Walter A., Chicago, Ill. Primary battery	555,304	Feb. 25	2681	627	74	1054
Crowdus, Walter A., Chicago, Ill. Electric lamp for vehicles	555,305	Feb. 25	2682	627	74	1054
Crowell, Hilen C., Dunkirk, N. Y. Wood pulley	570,909	Nov. 10	892	207	77	833
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Newspaper-wrapping machine	561,567	June 9	906	217 218	75	1566
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Sheet-perfecting printing-machine and its tympan	573,393	Dec. 15	2308	551 552	77	1752
Crowell, Sommers, Philadelphia, Pa. Fence-guard	573,571	Dec. 22	2656	631	77	1835
Crowley, Richard J. (See Cox and Crowley.)						
Crowley, Roy O., Elizabeth, N. J. Night signaling	568,838	Oct. 6	206	49	77	41
Crowson, Albert L., Sparta, La. Adding-machine	553,107	Jan. 14	1139	276 277	74	228
Crowson, Wiley E., Montgomery, Ala. Automatic pipe-coupling device	571,216	Nov. 10	1416	331	77	930
Crowson, William L. (See Rodgers and Crowson.)						
Crozier, William. (See Buffington and Crozier.)						
Crumley, Will S., and P. A. Muck, Lancaster, Ohio. Fence-post	566,378	Aug. 25	2584	631	76	1156
Crumly, George W., Rome, Ga. Machine for driving fence-posts, &c	564,505	July 21	2206	517 518	76	437
Crump, Jimmie B., Mobile, Ala. Fireplace-heater	571,897	Nov. 24	2618	620	77	1186
Crump, Samuel, Spokane, Wash. Producing molds for paper-making machines	554,243	Feb. 11	801	183	74	668
Cruse, Henry, Manchester, England. Shuttle for looms	553,302	Jan. 21	1486	357	74	306
Crutcher, James M., assignor of one-half to R. S. Crutcher, Atlanta, Ga. Bed-spring	558,360	Apr. 14	1490	366	75	299
Crutcher, Robert S. (See Crutcher, James M., assignor.)						
Crutchfield, John H., Charlotte, N. C. Cut-off for locomotives	567,299	Sept. 8	1003	238	76	1480
Crutsinger, Charles W., St. Louis, Mo. Apparatus for casting printers' rollers	572,744	Dec. 8	1166	280	77	1519
Cruyt, William J., assignor to Société la Précision, Brussels, Belgium. Synchronizing de- vice for electric clocks	568,475	Sept. 29	3044	731	76	1906
Cryderman, Jacob, Milwaukee, Wis., assignor of one-half to G. C. Vaughn, Peabody, Mass. Leather-working machine	560,782	May 26	2659	611	75	1257
Császár, Ferdinand H., Vienna, Austria-Hungary. Sensitive photographic paper	574,059	Dec. 29	3558		77	2018
Cuckson, Frederick C., Duane, N. Y. Attachment for pen stocks or holders	572,526	Dec. 8	769	182	77	1440
Cuenot, Paul A., Canton, Ohio. Billiard-cue tip	570,006	Oct. 27	2263	538	77	466
Culbertson, Esta F., Clermont, Ind. Carpenter's gage	562,070	June 16	1806	436	75	1754
Culbertson, John C., Lexington, Ohio. Corn-harvester	564,872	July 28	2-51	683	76	572
Culgan, John P., assignor to Union Switch and Signal Company, Swissvale, Pa. Auto- matic signaling	566,503	Aug. 25	2824	690	76	1202
Culgan, John P., assignor to Union Switch and Signal Company, Swissvale, Pa. Light- ning-arrester	571,109	Nov. 10	1250	291	77	898
Cullen, F. C., <i>et al.</i> (See Lofgreen and Whisler, assignors.)						
Cullen, Harry, assignor of one-half to F. Read, Toronto, Canada. Milk-delivery box	562,585	June 23	2666	645	75	1931
Cullens, John T., assignor of two-thirds to J. J. Coldiron and J. W. Wooten, Edwardsville, Ill. Brick-kiln	572,474	Dec. 1	674	160 161	77	1407
Callington, Joseph N., <i>et al.</i> (See Maxwell, George S., assignor.)						
Callington, William H., <i>et al.</i> (See Maxwell, George S., assignor.)						
Cullins, Herbert A. (See Kelly and Cullins.)						
Culliny, Patrick M. (See Robinson, Michael F., assignor.)						
Cullison, William R., Chicago, Ill. Churn	571,039	Nov. 10	1113	260	77	874
Cullmann, Otto, Chicago, Ill. Joint for parts of machinery. (Reissue)	11,557	July 7	827	197	76	154
Cully, Wesley J., <i>et al.</i> (See Frick, Henry L., assignor.)						
Culmer, John W., New Brighton, Pa. Computing-sca e	552,826	Jan. 7	615	149 150	74	116
Culmer, John W., New Brighton, Pa. Computing-scale	553,336	Jan. 21	1544	369	74	316
Culnan, William J., assignor of one-half to W. B. Hollis, Brule, Wis. Sled-propeller	554,582	Feb. 11	1360	324 325	74	778
Culp, Thomas S. (See Koffel, Forest L., assignor.)						
Culver, Fitz E., Chicago, Ill. Furnace-grate	555,679	Mar. 3	338	77	74	1190
Culver, Fitz E., Chicago, Ill. Gas-engine	573,209	Dec. 15	1974	475	77	1692
Culver, Frederick S., assignor of eleven-twentieths to W. C. Lovering, Taunton, and G. Draper & Sons, Hopedale, Mass. Spinning-machine	556,307	Mar. 10	1501	348	74	1427
Culver, George T., New Haven, Conn. Hack-saw	558,741	Apr. 21	2225	536	75	451
Culver, Willard B., Scranton, Pa. Coal crushing or breaking rolls	571,264	Nov. 10	1502	354 355	77	946
Culver, William C., Jersey City, N. J., and W. D. Culver, New York, N. Y. Pipe-cleaner ..	569,371	Oct. 13	1132	270	77	232
Culver, William D. (See Culver, William C. and W. D.)						
Cumine, George L., London, England. Lacing of boots or shoes	571,341	Nov. 17	1632	387	77	986
Cumming, Mari A. (See Butterworth, Frank L., assignor.)						
Cummings, Augustus C., Jonesborough, Tenn. Subsoil-plow	555,804	Mar. 3	525	127	74	1225
Cummings, Charles, Chicago, Ill. Apparatus for raising sunken vessels	563,750	July 14	869	207	76	178
Cummings, Charles J., Tully, N. Y. Potato-digger	566,446	Aug. 25	2744	666	76	1186

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Cummings, George H., Mystic, Conn. Needle-loom	558,721	Apr. 21	2122	{ 511 512 }	{ 75 77 }	432 1281
Cummings, George K., and F. W. Musson, Chicago, Ill. Pencil	572,105	Dec. 1	17	5		
Cummings, George W. (See Turner and Cummings.)						
Cummings, Henry H., Malden, Mass. Machine for making sheet-metal rivets	565,855	Aug. 11	1661	{ 407 408 }	{ 76 77 }	946 946
Cummings, Henry H., Malden, Mass., assignor to Chickering & Sons, New York, N. Y. Boring-machine	556,492	Mar. 17	1841	429	74	1507
Cummings, Henry H., Malden, Mass., assignor to Chickering & Sons, New York, N. Y. Machine for preparing string-framings for pianos	556,493	Mar. 17	1843	{ 430 431 432 }	{ 74 77 }	1508 1508
Cummings, Henry H., Malden, assignor, by mesne assignments, to Brown Bag Filling Machine Company, Fitchburg, Mass. Bag-holding mechanism	574,137	Dec. 29	3702	{ 822 883 }	{ 77 77 }	2043 2043
Cummings, J. A. (See Oberg and Gustafson, assignors.)						
Cummings, James F., assignor of two-thirds to C. H. Freeman and W. C. Yawkey, Detroit, Mich. Conduit for electrical conductors	562,806	June 30	3051	738	75	2022
Cummings, Marshal S., Thomasville, Ga. Electrical vegetation-extermiator	565,671	Aug. 11	1327	320	76	883
Cummings, Montrovi D., Columbus, Ohio. Mail-sack catching and delivering mechanism	568,747	Oct. 6	54	13, 14	77	14
Cummings, Woodson R., et al. (See Via and Stedman, assignors.)						
Cummins, Archer S., Crewe, Va. Sand-box	560,346	May 19	1841	419	75	1090
Cummins, James. (See Roberts and Cummins.)						
Cummins, John. (See Roberts and Cummins.)						
Cundall, Henry C. (See Cundall, John S., R. D., W. D., and H. C.)						
Cundall, John S., R. D., W. D., and H. C., Shipley, England. Oil and gas motor engine	568,017	Sept. 22	2236	{ 539 540 }	{ 76 76 }	1739 1739
Cundall, Robert D. (See Cundall, John S., R. D., W. D., and H. C.)						
Cundall, William D. (See Cundall, John S., R. D., W. D., and H. C.)						
Cuninghame, Alexander. (See Loder, John S., assignor.)						
Cuniff, Thomas, Brookline, Mass. Fan attachment for rocking-chairs	562,526	June 23	2667	646	75	1931
Cunningham, Andrew O., assignor of two-thirds to W. M. Gurley and F. R. Richardson, New Orleans, La. Car-fender and safety attachment	560,843	May 26	2763	{ 633 634 }	{ 75 75 }	1277 1277
Cunningham, Caleb L., Milton, Mass. Bicycle-gear attachment	559,934	May 12	1076	{ 239 240 }	{ 75 75 }	898 898
Cunningham, Carrow A. (See Cunningham, Fieldon B., assignor.)						
Cunningham, Christopher, Jr., Brooklyn, N. Y. Smelting-furnace	555,680	Mar. 3	340	78	74	1190
Cunningham, Edward, Horton, Kans. Wrench	569,372	Oct. 13	1133	270	77	232
Cunningham, Fieldon B., assignor of one-half to C. A. Cunningham, Burlington, Kans. Vegetable cutter, grater, and dish-drainer	564,595	July 28	2387	562	76	488
Cunningham, Frederic. (See Stimpson, Lorenzo L., assignor.)						
Cunningham, James E., et al. (See Hickey, Thomas W., assignor.)						
Cunningham, Logan M., assignor of one-half to R. S. Constable, Erie, Pa. Nut-lock	571,721	Nov. 17	2274	546	77	1103
Cunningham, Martin J., assignor of one-half to E. J. Ruschitzka, Springfield, Mo. Ware-house-truck	572,411	Dec. 1	584	139	77	1389
Cunningham, Patrick M., New York, N. Y., assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Billiard-table	553,185	Jan. 14	1271	307	74	252
Cunningham, Patrick M., New York, N. Y., assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Pool-table conduit	556,532	Mar. 17	1925	449	74	1522
Cunningham, Patrick M., New York, N. Y., assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Pocket billiard-table	559,790	May 5	758	123	75	825
Cunningham, Patrick M., assignor to Brunswick-Balke-Collender Company, New York, N. Y. Pocket billiard-table	573,262	Dec. 15	2064	494	77	1708
Cunningham, Robert, et al. (See McClellan and Girling, assignors.)						
Cunningham, Ruel. (See Curtis and Cunningham.)						
Cunningham, Thomas, et al. (See Brown, Franklin, assignor.)						
Cunningham, Thomas G., Fayetteville, Tenn. Mail-bag fastener	574,138	Dec. 29	3704	883	77	2043
Cunningham, William E., Brooklyn, N. Y. Shield-nozzle	563,454	July 7	368	85	76	71
Cunningham, William H. (See Dean, Cunningham, Boston, and Dean.)						
Cunningham, William H. (See Stoble and Cunningham.)						
Cunningham, William J. (See Waldo, Francis S., assignor.)						
Cunningham, William J., Philadelphia, Pa. Bottle-stopper	558,722	Apr. 21	2123	512	75	432
Cunningham, William J., Philadelphia, Pa. Bottle-stopper	558,782	Apr. 21	2227	536	75	451
Cunningham, William K., assignor to Wallace Manufacturing Company, Frankfort, Ind. Brick or tile cutting machine	573,263	Dec. 15	2066	{ 494 495 496 }	{ 77 77 77 }	1708 1708 1708
Cupers, Nicolas, Weert, Netherlands, assignor to W. H. Drury, Waltham, Mass. Apparatus for spinning fibrous materials. (Reissue)	11,524	Feb. 25	3007	{ 716 717 }	{ 74 74 }	1114 1114
Cuppers, William A., Jr., Revere, assignor to American Soda-Fountain Company, Boston, Mass. Apparatus for ornamenting soft-metal hollow ware	568,839	Oct. 6	208	50	77	41
Curl, John H., and C. Faulkner, McMinnville, Tenn.; said Curl assignor to said Faulkner. Support for revolvable axles	567,582	Sept. 15	1494	358	76	1585
Curlett, William, San Francisco, Cal. Valve	561,658	June 9	1060	256	75	1595
Curley, George, Salt Lake City, Utah. Saucepan-cover	566,744	Sept. 1	20	5	76	1284
Curley, George, Salt Lake City, Utah. Saucepan-cover	568,970	Oct. 6	435	97	77	84
Curley, Thomas, Waltham, Mass. Door-check	566,063	Aug. 18	2038	{ 495 496 497 }	{ 76 76 77 }	1037 1037 1037
Curley, Thomas, Troy, N. Y. Lemon-juice extractor	569,747	Oct. 20	1838	432	77	373
Curley, Thomas, Waltham, Mass. Door-check	571,153	Nov. 10	1326	309	77	913
Curley, Thomas L. (See Wright and Curley.)						
Curran, Charles H., and E. Whalley, Holyoke, Mass. Safety-pin	555,723	Mar. 3	405	94	74	1202
Curran, Charles H., and E. Whalley, Holyoke, Mass. Crank-and-pitman connection	565,261	Aug. 4	596	141	76	725
Curran, Edward J., Bathurst, New South Wales. Garment-pocket	555,433	Feb. 25	2904	691	74	1096
Curran, Frank M. (See Buck, George W., assignor.)						
Curran, James, London, England. Lubricating-valve	553,553	Jan. 28	1913	453	74	402
Curran, James J. (See Porter, James T., assignor.)						
Curran, John, San Francisco, Cal. Telephone registering device	565,965	Aug. 18	1879	457	76	1006
Curran, Richard. (See Stockstrom and Curran.)						
Currie, John A. (See O'Neill and Currie.)						
Currie, Stanley C. C., assignor of seven-twentieths to E. N. Dickerson, New York, N. Y. Automatic current-regulator	553,901	Feb. 4	178	37, 38	74	538
Currie, Stanley C. C., assignor to himself and E. N. Dickerson, New York, N. Y. Automatic current-regulator	554,414	Feb. 11	1101	256	74	725
Currier, Cyrus C. (See Holthaus, Emil, assignor.)						
Currier, Cyrus C., Summit, N. J. Rendering-tank	565,436	Aug. 11	871	206	76	798

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Currier, John W., Los Angeles, Cal. Billiard-chalk holder	561,659	June 9	1061	256	75	1595
Curry, Charles J., Key West, Fla. Device for securing spokes to wheel-rims	574,139	Dec. 29	3705	883	77	2044
Curry, Edgar F. (See Roberts and Curry.)						
Curry, Frank C., assignor to Milford Manufacturing Company, Milford, Ohio. Carpet-sweeper	563,710	July 7	799	191	76	150
Curtin, David, Indianapolis, Ind. Hand treadle attachment	559,684	May 5	562	133	75	790
Curtin, Emmett R., St. Mary's, Ohio. Well-tubing support	565,843	Aug. 11	1626	398	76	938
Curtice, Reuben E., assignor to himself and R. Monosmith, Spencer, Ohio. Wire-fastener	553,748	Jan. 28	2254	534	74	465
Curtis, Albert B., Worcester, Mass. Hub for wheels	555,932	Mar. 10	768	185	74	1293
Curtis, Albert B., Worcester, Mass. Bicycle-pedal	555,933	Mar. 10	769	185	74	1293
Curtis, Charles G., assignor to Curtis Company, New York, N. Y. Elastic-fluid turbine	566,967	Sept. 1	401	93, 94	76	1359
Curtis, Charles G., assignor to Curtis Company, New York, N. Y. Elastic-fluid turbine	566,968	Sept. 1	406	94, 95, 96	76	1359
Curtis, Charles G., assignor to Curtis Company, New York, N. Y. Elastic-fluid turbine	566,969	Sept. 1	415	97, 98	76	1360
Curtis, Charles H., Derby, and C. E. Atwater, New Haven, Conn. Clipper	567,583	Sept. 15	1495	358	76	1585
Curtis Company. (See Curtis, Charles G., assignor.)						
Curtis & Curtis. (See Curtis, Lewis B., assignor.)						
Curtis, Daniel D., Sidnev Centre, N. Y. Bedstead-joint	572,412	Dec. 1	586	139	77	1390
Curtis, David W., Fort Atkinson, Wis. Automatic milk-weighing apparatus	565,437	Aug. 11	874	207	76	798
Curtis, Edmund A., Chicago, Ill. Car-truck	560,155	May 12	1484	335, 336	75	976
Curtis, Frank E., St. Joseph, Mo. Stenographic type-writing machine	556,533	Mar. 17	1926	449, 450	74	1522
Curtis, Frank G., Philadelphia, Pa., assignor to J. B. Cann, Boston, and F. D. Goode, Newton, Mass. Composition for exciting fluids for electrical batteries	561,204	June 2	231		75	1412
Curtis, Frank G., Philadelphia, Pa., assignor to J. B. Cann, Boston, and F. D. Goode, Newton, Mass. Pole-piece for electrical batteries	561,205	June 2	232	55	75	1412
Curtis, Frank J. (See McConway, Kelso, and Curtis.) (Reissue.)						
Curtis, Frederic A., assignor to Wheel Company, Anderson, Ind. Gearing	570,698	Nov. 3	522	122	77	735
Curtis, George A., Malden, assignor to C. F. Baker, Boston, Mass. Heel-nail	574,140	Dec. 29	3706	884	77	2044
Curtis, George A., and R. Cunningham, Boston, Mass. Drop-tube steam-generator	560,397	May 19	1937	443	75	1108
Curtis, George L. (See Peterson and Curtis.)						
Curtis, George W., Long Grove, Iowa. Liquid-measuring device	571,217	Nov. 10	1419	331	77	930
Curtis, John H., St. Louis, Mo. Apparatus for purifying sewage or water	564,049	July 14	1439	335	76	282
Curtis, Lewis B., Southport, assignor to Curtis & Curtis, Bridgeport, Conn. Pipe cutting and threading machine	559,791	May 12	765	184	75	841
Curtis, Nathaniel, and H. Schneider, Denver, Colo. Shield for pitchers	563,912	July 14	1185	270	76	237
Curtis, Warren, Palmer, N. Y. Paper-pulp-screening machine	552,749	Jan. 7	452	113	74	85
Curtis, Will C. (See Kions, Jasper D., assignor.)						
Curtis, Will E., Cincinnati, Ohio. Device for regulating treatment of substances chronometrically, &c.	557,192	Mar. 31	3048	729, 730	74	1771
Curtis, William G., and J. D. Isaacs, San Francisco, Cal. Car and retort for wood-preserving plants	570,746	Nov. 3	606	139	77	749
Curtis, William N., St. Mary's, W. Va. Wheeled plow	561,768	June 9	1267	302	75	1635
Curtiss, Charles E., Clinton, Wis. Corn-husking and fodder-preparing machine	561,539	June 2	857	206	75	1532
Cuscaden, Robert, and W. F. Polesz, Philadelphia, Pa. Loom	572,246	Dec. 1	265	64	77	1320
Cushing, Alvin M., Springfield, Mass. Spring-heel for boots or shoes	554,988	Feb. 18	2095	499	74	929
Cushman, Abe L., Concord, N. H. Armature for induction-motors	554,617	Feb. 11	1446	339	74	790
Cushman, Abe L., Concord, N. H. Armature for induction-motors	555,899	Mar. 3	705	170	74	1261
Cushman, Abe L., assignor of one-half to B. A. Kimball, Concord, N. H. Core and coil for dynamo-electric machines	555,850	Mar. 3	605	144	74	1241
Cushman, Abe L., assignor of one-half to B. A. Kimball, Concord, N. H. Armature for induction-motors	555,851	Mar. 3	606	144, 145	74	1241
Cushman, Edward P., Lynn, Mass. Bag-tag or card-receptacle	554,171	Feb. 4	684	154	74	630
Cushman, Henry W., et al. (See Gross, Elmer S., assignor.)						
Cushman, Hiram, Attleborough, Mass. Ticket-holder for railway-cars	562,120	June 16	1880	455	75	1768
Cushman, Hiram, Attleborough, Mass. Ticket-holder for railway-cars	562,121	June 16	1881	456	75	1768
Cushman, Sarah J., et al. (See Bolus, William G., assignor.)						
Cushman, Sylvanus D., Akron, Ohio. Trolley-wire switch	562,356	June 16	2275	552	75	1842
Cusson, Edmond N., Montreal, Canada. Machine for stamping cigars	565,532	Aug. 11	1082	260	76	836
Custer, John S., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake	553,481	Jan. 21	1779	424	74	361
Custer, John S., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake	553,482	Jan. 21	1781	424, 425	74	361
Custer, Joseph, Goshen, Ohio. Seeder	567,780	Sept. 15	1818	436	76	1648
Custer, Levitt E., Dayton, Ohio. Electrical muffle or heater	569,911	Oct. 20	2089	497	77	421
Custodia, Alphons, Dusseldorf, Germany. Scale for weighing gaseous substances	569,177	Oct. 13	789	125	77	167
Cutler, Anna J. (See Baldwin, Ellory A., assignor.) (Reissue.)						
Cutler, Arthur E., and R. Donkin, Mosman, New South Wales. Hydraulic compensating pump or engine	569,091	Oct. 6	645	147, 148, 149	77	124
Cutler, Charles J., Butte, Mont. Electric mine cage and elevator	553,450	Apr. 14	1653	398	75	331
Cutler Company. (See Cutler, Henry, assignor.)						
Cutler, Henry, assignor to Cutler Company, Wilbraham, Mass. Steam drying-machine	567,887	Sept. 15	1999	479, 480	76	1684
Cutler, Adelaide C. (See Cutler, John D., assignor.)						
Cutter Electrical and Manufacturing Company. (See Harrington, Walter E., assignor.)						
Cutter, John D., assignor to A. C. Cutter, Brooklyn, N. Y. Dental floss-holder	566,667	Aug. 25	3067	749	76	1248
Cutter, Solomon M., Boston, Mass. Horn or stock-support for pegging-machines	557,769	Apr. 7	445	105	75	84
Cutter, Solomon M., Nashua, N. H. Machine and die for forming nail-strips	561,206	June 2	234	56	75	1412
Cutting, George H., Worcester, Mass. Mechanism for cutting pintle-cavities in timber	557,054	Mar. 24	2000	665	74	1704
Cutts, Charles D., Fort Fairfield, Me. Insect-powder distributor	567,640	Sept. 15	1588	382	76	1063
Cycloldal Transit Amusement Company. (See Cronin, William D., assignor.)						
Cyrenius, Frederick H., Oswego, N. Y. Automatic chemical fire-extinguisher	557,770	Apr. 7	446	105	75	84
D. K. Miller Lock Company. (See Jackson and Taylor, assignors.)						
D. K. Miller Lock Company. (See Soley, Frank, assignor.)						
D. M. Osborne & Company. (See Sharp, Charles S., assignor.)						
D. M. Sechler Carriage Company. (See Lillja, Svante E., assignor.)						
Dabbs, James V., et al. (See Bidwell, Alonzo, assignor.)						
Dable, John, Chicago, Ill. Corn-harvester	564,571	July 21	2334	548	76	459
Dade, Harry E. (See Copeland and Dade.)						
Daellenbach, Charles R., and J. R. Phillips, assignors to Ellwood Tin-Plate Company, Ellwood City, Pa. Branning-machine	573,450	Dec. 22	2454	582	77	1797
Daeschner, Rudolf, Cologne, Germany. Portable dark room	561,568	June 9	912	219	75	1567

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Daggett, Albert, Strong, Me. Road-rake	553,749	Jan. 28	2256	534	74	465
Daggett, William R., Dayton, Ohio. Electric-railway switch	561,970	June 16	1616	{ 392 393 }	75	1720
Dahl, Charles A., Lynn, Mass., assignor to Globe Buttonhole Machine Company, Kittery, Me., and Boston, Mass. Buttonhole-sewing machine	566,893	Sept. 1	266	62	76	1333
Dahl, Peter M., and R. E. Poindexter, assignors to E. C. Atkins & Company, Indianapolis, Ind. Saw	561,094	June 2	31	8	75	1373
Dahlberg, Gustaf L. R., Somerset, N. J. Easel	569,410	Oct. 13	1202	283	77	244
Dahlberg, Gustaf L. R., Somerset, N. J. Easel	574,242	Dec. 29	3938	937	77	2085
Dahlerup, Ursula S. S., assignor of one-half to C. Christensen, Copenhagen, Denmark. Cotton-wool mattress	568,240	Sept. 22	2655	{ 635 636 }	76	1817
Dahlgren, Carl G., and J. H. Svensson, Gothenburg, Sweden. Lathe	561,095	June 2	32	9	75	1373
Dahlmeyer, Edwin. (See Thomas, Enoch K., assignor.)						
Dailey, Benjamin F., Mount Pleasant, Iowa. Ballast-burning apparatus	556,087	Mar. 10	1069	{ 255 256 }	74	1347
Dailey, James H., Burlington, Wis., assignor to Burlington Blanket Company, of Wisconsin. Horse-blanket	554,244	Feb. 11	804	183	74	668
Dailey, John B., Philadelphia, Pa. Trolley-wheel	565,725	Aug. 11	1430	348	76	902
Dailey, William H., St. Louis, Mo. Shoe-fastening	561,540	June 2	860	207	75	1532
Dailey, William H., assignor of one-half to J. H. Bright, St. Louis, Mo. Stop-motion device for barb-wire machines	556,622	Mar. 17	2063	483	74	1547
Daily, John W., Boston, Mass. Endoscopic instrument	559,122	Apr. 28	2824	683	75	585
Dain, Albert E., Pittsburg, Pa. Vehicle axle-bearing and hub	573,394	Dec. 15	2311	552	77	1753
Dain, Joseph, Jr., Carrollton, Mo. Corn-harvester	572,967	Dec. 15	1556	373	77	1612
Dain, Joseph, Jr., assignor to Dain Manufacturing Company, Carrollton, Mo. Rake	560,692	May 26	2500	574	75	1226
Dain Manufacturing Company. (See Dain, Joseph, Jr., assignor.)						
Dake, Charles W., assignor to Grand Rapids Cycle Company, Grand Rapids, Mich. Sprocket-wheel	556,254	Mar. 10	1371	322	74	1402
Dal, John E., a Haines City, Fla. Mustache-guard	556,254	June 9	1446	348	75	1668
Dale, Bert, Milwaukee, Wis. Trolley	552,631	Jan. 7	218	60	74	43
Dale, Charles H. (See Schaeffer and Dale.)						
Dale, James, Jr., London, England. Valve	562,282	June 16	2143	521	75	1817
Dale, John H., et al. (See Sheridan, James H., assignor.)						
Dale, John H., and H. Denney, assignors to P. B. Sweeny, New York, N. Y. Machine for making envelopes	558,046	Apr. 14	971	{ 237 238 }	75	200
Dale, Theodore D. (See Lovell, George W., assignor.)						
Dale, Thomas, Kirkcaldy, Scotland. Machine for printing unocum or floor-cloth, &c	573,965	Dec. 29	3386	{ 810 811 812 813 }	77	1986
Dale, Will W., assignor of two-thirds to L. Harbaugh and S. L. Ghaster, Fostoria, Ohio. Telephone attachment	562,807	June 30	3052	738	75	2022
Dales, John H., Leeds, England. Steam-engine	568,665	Sept. 29	3423	810	76	1975
Dales, John H., Leeds, England. Method of effecting automatic adjustment of connecting-rods, &c	568,666	Sept. 29	3425	819	76	1976
Dales, William E., New York, N. Y. Bait-guard	556,494	Mar. 17	1553	432	74	1509
Dales, William E., Brooklyn, N. Y. Bait-guard	573,572	Dec. 22	2657	631	77	1835
Dallas, Alexander, and O. P. Amick, Herington, Kans. Fluid-pressure brake	572,871	Dec. 8	1364	330	77	1558
Dallig, Hugo L., and W. Kryszewski, Jersey City, N. J. Street-railway switch	567,454	Sept. 8	1276	309	76	1529
Dalrymple, Hartwell A. (See McGrath, Patrick C., assignor.)						
Dalrymple, Hartwell A., and P. C. McGrath, Rutland, Vt. Egg-beater	563,139	June 30	3672	879	75	2144
Dalton, Edward E., Menominee, Mich. Window-sash lock	570,007	Oct. 27	2264	538	77	466
Dalton, Henry F., Azusa, Cal. Merchandise hand-hook	555,681	Mar. 3	341	78	74	1191
Dalton-Ingersoll Company. (See Scott, William, assignor.)						
Dalumi, Julius A., New York, N. Y. Sign	567,379	Sept. 8	1156	277	76	1507
Daly, Daniel A., Detroit, Mich. Scoop-shovel	554,989	Feb. 18	2096	499	74	929
Daly, Frank A., Lowell, Mass. Bottle-case	557,558	Apr. 7	40	11	75	9
Daly, John F., and W. L. Corson, assignors to Union Gas Engine Company, San Francisco, Cal. Gas-engine	557,493	Mar. 31	3586	859	74	1872
Daly, John J., Brooklyn, N. Y. Life-preserver	556,088	Mar. 10	1071	256	74	1347
Daly, John P., Savannah, Ga. Combined can-opener, screw-driver, tack-puller, and hammer	574,197	Dec. 29	3845	917	77	2068
Daly, Timothy G., Boston, Mass. Advertising apparatus	556,136	Mar. 10	1157	{ 271 272 }	74	1364
Dalziel, David, Glasgow, Scotland. Golfing appliance	567,455	Sept. 8	1277	309	76	1529
Damborg, Thorwald C., assignor to N. Billstein, Philadelphia, Pa. Printing-press	557,559	Apr. 7	41	12, 13	75	10
Damborg, Thorwald C., deceased; S. B. Pearson, Philadelphia, Pa., executor. Printing-press	558,000	Apr. 7	864	{ 218 219 }	75	163
Dame, John E., Brooklyn, N. Y. Combined steam and hot-water stove	560,693	May 26	2502	{ 574 575 }	75	1227
Dame, John E., Brooklyn, N. Y. Heater	573,451	Dec. 22	2457	583	77	1797
Damon, Charles E., assignor to Edgar Manufacturing Co., Reading, Mass. Nutmeg-grater	571,118	Nov. 10	1421	332	77	931
Damon, Edwin S. (See Hamblin and Damon.)						
Damon, George B., assignor of one-half to G. W. Pearson, Lowell, Mass. Insulation-protector	566,064	Aug. 18	2039	497	76	1037
Damon, William E., Pomona, Cal. Brick-machine	555,805	Mar. 3	526	127	74	1226
Dana, Arthur D., trustee. (See Davis, Charles E., assignor.)						
Dana, Woodbury K., Westbrook, Me. Apparatus for harvesting cotton	564,974	Aug. 4	27	6	76	622
Dane I. Christian, New York, N. Y., assignor to Goodyear Shoe Machinery Company, Boston, Mass. Sewing-machine	567,828	Sept. 15	2001	480	76	1684
Danckwardt, Paul, New York, N. Y. Process of and apparatus for producing cyanide	569,325	Oct. 13	1056	250	77	218
Danckwardt, Paul, assignor to Electro-Cyanide Gold and Silver Extracting Company, New York, N. Y. Apparatus for extracting gold and silver from ore	566,894	Sept. 1	268	62	76	1333
Dancyger, Simon, Dayton, Ohio. Marking-tag	557,055	Mar. 24	2401	666	74	1704
Danforth, Oscar L., Mansfield, Ohio. Barber's turn	569,178	Oct. 13	789	185	77	167
Dangler, Karl H., Steubenville, Ohio. Composition for glass	572,968	Dec. 15	1558		77	1613
Dangler, Karl H., Steubenville, Ohio. Composition for fire-brick	572,969	Dec. 15	1558		77	1613
Daniel, Charles A. (See Fearon, James J., assignor.)						
Daniel, Harry, assignor, by mesne assignments, to W. B. Lark, Philadelphia, Pa. Edge-setting tool	553,777	Jan. 28	2295	544	74	473
Daniel, John W., assignor of two-thirds to S. Starling and A. D. Powers, Owensborough, Ky. Tobacco-granulator	562,587	June 23	2667	646	75	1932
Danielovsky, Karl. (See Bardelli and Danielovsky.)						
Daniels Bros. (See Daniels, Cornelius F. and R. H., assignors.)						
Daniels, Charles J., Buffalo, N. Y. Ligature-receptacle	562,173	June 16	1964	476	75	1784

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Daniels, Cornelius F. and R. H., assignors to Daniels Bros., Macon, Ga. Cotton-baling machine.....	554,775	Feb. 18	1723	404	74	859
Daniels, E. S., <i>et al.</i> (See Fobes, William E., assignor.)						
Daniels, Ernest C. (See Daniels, William and E. C.)						
Daniels, Fred H. (See Underwood and Daniels.)						
Daniels, Fred H. (See Wyman and Daniels.)						
Daniels, Fred H. Worcester, Mass. Rail-bond for electric railways.....	556,046	Mar. 10	998	233	74	1334
Daniels, Fred H., Worcester, Mass. Rail-bond for electric railways.....	564,243	July 21	1773	414	76	360
Daniels, Fred H., Worcester, Mass. Rail-bond.....	565,672	Aug. 11	1329	321	76	883
Daniels, Fred H., Worcester, Mass. Manufacture of tinned wire.....	573,573	Dec. 22	2658	631	77	1835
Daniels, H. S., <i>et al.</i> (See West, William H. H., assignor.)						
Daniels, Howard, Atlanta, Ga., assignor of one-half to J. H. Simonson, Fort Wayne, Ind. Lumber-piling machine.....	570,868	Nov. 3	816	189 190	77	790
Daniels, Howard, Atlanta, Ga., assignor of one-half to J. H. Simonson, Fort Wayne, Ind. Lumber-piler.....	570,869	Nov. 3	819	190 191	77	791
Daniels, John P., Chicago, Ill., assignor to F. B. Meck, Davenport, Iowa. Alarm-lock for bicycles.....	571,083	Nov. 10	1193	280	77	889
Daniels, Philo E., assignor of one-half to M. J. Donohoo, Oakland, Cal. Mechanism for registering and recording coins received and delivered.....	560,844	May 26	2765	634 635	75	1278
Daniels, Richard H. (See Daniels, Cornelius F. and R. H.)						
Daniels, Robert E., Youngstown, Ohio. Railway construction.....	555,934	Mar. 10	769	155	74	1293
Daniels, Samuel, assignor of one-half to M. E. Dayton, Chicago, Ill. Vapor-stove.....	568,018	Sept. 22	2241	540 541	76	1740
Daniels, Samuel, assignor of one-half to M. E. Dayton, Chicago, Ill. Vapor-stove.....	568,811	Sept. 22	2766	666	76	1839
Daniels, William and E. C., assignors of one-fourth to D. B. Brown, Orangeville, Canada. Hay and stock rack.....	557,652	Apr. 7	239	59	75	45
Daniels, William E., Somerville, Mass. Bicycle	555,639	Mar. 3	270	64	74	1179
Dann Bros. & Company. (See Dann, John A., assignor.)						
Dann, John A., assignor to Dann Bro. & Company, New Haven, Conn. Wheel-rim.....	555,306	Feb. 25	2683	628	74	1054
Danner, Albert E. S. (See Mitchell, Gideon D., assignor.)						
Dansereau, Pierre, Montreal, Canada. Roller-bearing.....	561,971	June 16	1616	393	75	1721
Dantier, Gustave, <i>et al.</i> (See Beran, Albert, assignor.)						
Darby, Ion. (See Darby, Walter and I.)						
Darby, Ion. (See Darby and Punchard.)						
Darby, Walter and I., assignors of one-third to J. H. Punchard, London, England. Heating attachment for oil-stoves.....	571,722	Nov. 17	2275	546 460	77	1103
Darby, Walter and I., and J. H. Punchard, London, England. Water-heating apparatus.....	569,815	Oct. 20	1936	461	77	392
Darby, Walter and I., and J. H. Punchard, London, England. Heating-stove.....	569,816	Oct. 20	1938	461	77	393
Darley, John W., Jr. (See Knight and Darley.)						
Darley, John W., Jr., assignor of one-half to M. Holzman, P. and L. Hamburger, Baltimore, Md. Wheel-guard for street-cars.....	555,852	Mar. 3	608	145 146	74	1242
Darley, John W., Jr., assignor of one-half to M. Holzman, P. and L. Hamburger, Baltimore, Md. Speed-indicating alarm.....	555,853	Mar. 3	611	146 147	74	1242
Darling, Ernest T., assignor of two-thirds to F. Hanks and O. E. Crouch, Colfax, Ill. Lamp-filler.....	572,502	Dec. 1	725	172 173	77	1415
Darling, Frank W., Hampton, Va. Car-fender.....	556,810	Mar. 24	2384	560	74	1624
Darling, Henry M., assignor to Seneca Falls Manufacturing Company, Seneca Falls, N. Y. Journal-box.....	558,262	Apr. 14	1337	327	75	270
Darling, Jeremiah, Erlanger, Ky. Cultivating implement.....	571,130	Nov. 10	1292	300	77	906
Darling, John, London, England, assignor to L. H. Cress, Newton, Mass. Cloth-measuring machine.....	564,596	July 28	2388	562 563	76	488
Darling, Joseph, Peachville, Pa. Curtain-fixture.....	556,255	Mar. 10	1372	323	74	1402
Darnell, Calvin F., Indianapolis, Ind. Voting apparatus.....	563,361	July 7	218	49	76	44
Darnell, Calvin F., Indianapolis, Ind. Fence.....	569,276	Oct. 13	962	230	77	199
Darrach, Samuel A., Newark, N. J. Stand-brace for bicycles.....	568,667	Sept. 29	3426	819	76	1976
Darraha, David and E. R., St. Clairsville, Ohio. Sound-conducting device.....	566,145	Aug. 18	2182	530	76	1063
Darraha, Emma R. (See Darraha, David and E. R.)						
Darras, Auguste F., Paris, France. Flour-sifter.....	566,144	Aug. 18	2180	530	76	1062
Darrow, Frank L. (See Nash, Alice C., assignor.)						
Darrow, Jennie C. (See Newton, Daniel H., assignor.)						
Darrow, Oliver A., O'Fallon, Ill. Oil-separator.....	569,016	Oct. 6	519	119	77	99
Dart, Daniel W., assignor to S. B. Doolittle, Binghamton, N. Y. Flue-cleaner for boilers.....	567,265	Sept. 8	934	223	76	1467
Dashiels, William H., Jr. (See Liddell and Dashiels.)						
Dashiell, Robert B., U. S. Navy. Turret.....	553,056	Jan. 14	1036	252	74	208
Dashiell, Robert B., U. S. Navy. Turret. (Reissue).....	11,531	Apr. 14	1688	406	75	336
Dashiell, Robert B., Washington, D. C. Gun-mount.....	573,210	Dec. 15	1975	476	77	1692
Dashiell, Robert B., Washington, D. C., assignor to Hathaway High Explosive Company, New York, N. Y. Fuse for high explosives.....	571,342	Nov. 17	1633	388	77	986
Date, Frederick H., J. Heffron, J. Scudder, and B. H. Scranton, Detroit, Mich. Electrical sold-ring-iron.....	565,137	Aug. 4	345	82	76	682
Date, Frederick H., J. Heffron, B. H. Scranton, and J. Scudder, assignors to American Electrical Heater Company, Detroit, Mich. Electric sad-iron.....	565,136	Aug. 4	344	81, 82	76	681
Dates, John H., assignor of one-half to S. P. Parke, Philadelphia, Pa. Indicator-lock.....	564,185	July 21	1687	395	76	343
Dathan, Louis K., Brooklyn, N. Y. Keyed cithern.....	562,283	June 16	2143	521 522	75	1817
Dathan, Louis K., Brooklyn, N. Y. Musical instrument.....	566,146	Aug. 18	2183	531	76	1063
Dauber, August, Bochum, Germany. Gas-generator.....	570,008	Oct. 27	2265	538	77	466
Dauber, August, Bochum, Germany. Calcining-furnace.....	573,140	Dec. 15	1858	447	77	1671
Daudelin, Felix E., Chicago, Ill. Work-table for paper-hangers.....	572,698	Dec. 8	1075	262	77	1503
Daudelin, Jean B., Fall River, Mass. Loom-shuttle.....	563,455	July 7	369	85	76	71
Daugherty, David O. (See Ehleb and Daugherty.)						
Daugherty, James D., Kittanning, assignor to Daugherty Typewriting Company, Pittsburgh, Pa. Type-writing machine.....	553,153	Jan. 14	1202	293 294	74	241
Daugherty, James D., Kittanning, assignor to Daugherty Typewriting Company, Pittsburgh, Pa. Type-writing machine.....	556,460	Mar. 17	1787	414 415	74	1497
Daugherty, James D., Kittanning, assignor to Daugherty Typewriting Company, Pittsburgh, Pa. Type-writing-machine platen.....	569,092	Oct. 6	548	149	77	124
Daugherty, James M. (See Fuhrmann and Daugherty.)						
Daugherty, Jesse C., Lima, Ohio. Toy for making soap-bubbles.....	565,332	Aug. 4	701	167	76	745
Daugherty, Thomas E., Guthrie Centre, Iowa. Drip apparatus for dental engines.....	568,163	Sept. 22	2518	607	76	1791
Daugherty Typewriting Company. (See Daugherty, James D., assignor.)						
Daughtrey, Thomas R. L., and A. M. Cowart, Punta Gorda, Fla. Insect-trap.....	573,814	Dec. 22	3091	734	77	1918

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Davenport, George, assignor of two-thirds to C. H. Forbes, P. H. Rutter, Philadelphia, Pa., H. and W. F. Rutter, Atlantic City, N. J. Brush-handle attachment.....	555,854	Mar. 3	614	147	74	1242
Davenport, Herbert, Paterson, N. J. Reed for warping.....	569,179	Oct. 13	791	{ 185 186 }	77	167
Davenport, William H., Norwich, Conn. Shell-extractor for breakdown guns.....	565,605	Aug. 11	1207	290	76	859
Davenport, William H., Norwich, Conn. Extractor and ejector for breakdown guns.....	565,606	Aug. 11	1209	290	76	859
Daves, William, Jersey City, assignor of two-thirds to W. H. Peddle, Roselle, and J. H. Olhausen, Elizabeth, N. J. Electric railway-signal.....	564,683	July 28	2522	{ 596 597 }	76	514
Davey, Forrest, assignor to A. A. and M. J. Boss, Detroit, Mich. Electric bell.....	562,668	Sept. 29	3427	820	76	1976
Davey, John F., Marlborough, Mass. Pegging-machine.....	555,434	Feb. 25	2905	691	74	1096
Davey Pegging Machine Company. (See Kelly, William W., assignor.)						
Davezac, Alexander. (See Kleimeier, Theodor, assignor.)						
David, Cyrenius A., et al. (See Gilliland, Lee O., assignor.)						
David, John, and C. Le Doux, assignors to H. E. Fry, London, England. Smelting lead ores.	559,935	May 12	1078		75	896
Davidson, Alexander, deceased; E. L. Davidson, Parkersburg, W. Va., administrator. Type-writing machine.....	558,484	Apr. 21	1725	{ 416 417 }	75	359
Davidson, Charles W. (See Reynolds, Noah H., assignor.)						
Davidson, Edwin L., administrator. (See Davidson, Alexander.)						
Davidson, Frank B. (See Howe and Davidson.)						
Davidson, Frank B., Chicago, Ill. Paper box.....	571,512	Nov. 17	1924	459	77	1039
Davidson, George, Heber, Ark. Tug fastener or attachment.....	568,083	Sept. 22	2386	575	76	1766
Davidson, Herbert E. (See Hunter and Davidson.)						
Davidson, J. H. (See McCullough, James S., assignor.)						
Davidson, James W., Syracuse, N. Y. Bag-filler.....	571,513	Nov. 17	1926	459	77	1039
Davidson, John M., assignor to J. V. Scaife, Allegheny, Pa. Filter.....	570,910	Nov. 10	893	208	77	833
Davidson, John M., assignor to W. I. and D. F. H. McDowell, Allegheny, Pa. Manufacture of thread-protectors for pipes and bolts.....	560,610	May 19	2297	526	75	1173
Davidson, Joseph A., New York, N. Y. Pin.....	568,639	Apr. 21	1976	479	75	405
Davidson, Le Grand B., Denver, Colo., assignor of one-half to W. C. Allen, Philadelphia, Pa. Cutting and panning machine.....	570,870	Nov. 3	821	191	77	792
Davidson, Lewis P., Denver, Colo., assignor to himself, and E. Barnes, Pleasant Hill, Nebr. Wrench.....	554,991	Feb. 18	2102	500	74	930
Davidson, Miles E., Helena, Ark. Sawmill.....	561,569	June 9	914	219	75	1567
Davidson, Samuel C., Belfast, Ireland. Stove or apparatus for heating air.....	553,576	Jan. 28	1963	{ 464 465 466 }	74	412
Davidson, William, and J. Walker, San Francisco, Cal. Stone cutting and dressing machine.	559,515	May 5	282	67	75	717
Davies, Charles. (See Taylor and Davies.)						
Davies, David L. (See Keating, Jeremiah F., assignor.)						
Davies, Ebenezer P., Scranton, Pa. Ruler and paper-cutter.....	552,988	Jan. 14	924	224	74	187
Davies, Ebenezer P., Scranton, Pa. Toaster.....	573,574	Dec. 22	2660	632	77	1835
Davies, Edward, and A. Harrison, Adelaide, South Australia. Protector for pneumatic tires.....	572,159	Dec. 1	117	28	77	1300
Davies, James M., assignor of one-half to C. H. Kahler, Grand Rapids, Mich. Skirt-supporter.....	555,682	Mar. 3	341	78	74	1191
Davies, John A., Brooklyn, N. Y. Bottle.....	560,398	May 19	1939	443	75	1108
Davies, John E., Duquesne, assignor of two-thirds to J. Jarrett, Pittsburg, and J. Edwards, Homestead, Pa. Roll-pinion attachment.....	563,261	July 7	50	12	76	11
Davies, Percy, assignor of one-half to S. Kahn, Oakland, Cal. Window-shade attachment.	559,098	Apr. 28	2782	674	75	574
Davies, Percy W. (See Chapman and Davies.)						
Davies, Robert. (See Thomas and Davies.)						
Davies, William, Middlesborough, England. Rolling-mill platform.....	564,597	July 28	2390	563	76	488
Davin, William E., Edgington, W. Va. Railway-frog.....	565,438	Aug. 11	876	{ 207 208 }	76	799
Davis, Albert L., Grand Rapids, Mich. Target-throwing trap.....	554,990	Feb. 18	2097	{ 499 500 }	74	929
Davis, Benjamin F. (See Gannon, Robert M., assignor.)						
Davis, Bethuel M., Peoria, Ill. Combined door closer and stop.....	573,395	Dec. 15	2312	553	77	1753
Davis, Carroll F., Missoula, Mont. Sales-indicator and alarm.....	560,195	May 19	1563	354	75	1043
Davis, Charles A., Pasadena, Cal. Tooth-crown attachment.....	553,394	Jan. 21	1639	392	74	334
Davis, Charles E., assignor to A. D. Dana, trustee, Chicago, Ill. Trolley system for electric railways.....	568,523	Sept. 29	3159	760	76	1925
Davis, Charles E., and C. L. Grohmann, Chicago, Ill. Profiling-machine.....	560,347	May 19	1842	{ 419 520 521 }	75	1090
Davis, Charles F. (See Woodworth, Charles H., assignor.)						
Davis, Clifton H., assignor of three-fourths to A. McNeill, Chicago, Ill., G. Hausmann and L. A. Renaud, Fort Worth, Tex. Bottle-stopper.....	554,389	Feb. 11	1046	243	74	714
Davis, Daniel and E. H., Elmira, N. Y. Voting-machine.....	563,141	June 30	3671	{ 879 880 }	75	2145
Davis, De Leon, Philadelphia, Pa. Motive-power apparatus.....	564,506	July 21	2208	518	76	438
Davis, Edward L., Buffalo, N. Y. Water-closet joint.....	571,471	Nov. 17	1844	439	77	1024
Davis, Emmet L. (See Wiggins and Davis.)						
Davis, Etna H. (See Davis, Daniel and E. H.)						
Davis, Ezekiel F. C., assignor to Richmond Locomotive and Machine Works, Richmond, Va. Valve device for compound engines.....	564,050	July 14	1441	{ 335 336 }	76	283
Davis, Ezekiel F. C., assignor to Richmond Locomotive and Machine Works, Richmond, Va. Valve-operating device.....	564,051	July 14	1444	336	76	283
Davis, Ezekiel F. C., assignor to Richmond Locomotive and Machine Works, Richmond, Va. Compound-engine-valve-operating device.....	566,266	Aug. 18	2363	579	76	1099
Davis, Francis G., Watertown, N. Y. Spoke-trimming machine.....	561,435	June 2	768	{ 188 189 }	75	1515
Davis, Francis G., assignor to H. H. Babcock Company, Watertown, N. Y. Vehicle-axle.	562,357	June 16	2277	552	75	1842
Davis, Francis H., Melbourne, Victoria. Core-boring apparatus and means for gripping and raising cores.....	555,450	Mar. 3	271	64	74	1179
Davis, Frank B. (See Mendenhall and Davis.)						
Davis, Frank E., La Crosse, Wis. Cultivator.....	568,524	Sept. 29	3162	761	76	1926
Davis, Frank E., assignor to A. Hirsheimer, La Crosse, Wis. Cultivator.....	553,704	Jan. 28	2175	{ 514 515 }	74	449
Davis, Fred H. M., Los Angeles, Cal. Horse-power pumping-machine.....	571,993	Nov. 24	2776	{ 655 656 }	77	1218
Davis, Frederick, and R. E. B. Crompton, London, England. Means for protecting underground electrical conductors.....	562,808	June 30	3054	738	75	202

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Davis, Frederick A. W., assignor to H. M. Laudon, Indianapolis, Ind. Purifying attachment for gas-wells.	560,783	May 26	2660	611	75	1257
Davis Gasoline Engine Company. (See Davis, William F., assignor.)						
Davis, George, <i>et al.</i> (See Schwechler and Ingram, assignors.)						
Davis, George B., Sierra Madre, Cal. Freight-car.	563,022	June 30	3459	831	75	2105
Davis, George H., Washington, D. C. Type-writing machine.	560,572	May 19	2228	509 510	75	1159
Davis, George H., New York, N. Y. Type-writing machine.	560,573	May 19	2231	510	75	1160
Davis, George H., New York, N. Y. Electrical self-playing piano.	570,911	Nov. 10	895	208	77	833
Davis, H. A., <i>et al.</i> (See Pletcher, Levi L., assignor.)						
Davis, Harry P., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Rheostat.	559,685	May 5	563	133	75	790
Davis, Harry P., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Electric-arc lamp.	569,817	Oct. 20	1940	462	77	393
Davis, Harry P., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Electric-arc lamp.	569,818	Oct. 20	1941	462	77	393
Davis, Henry J. (See Davis, Moses J., assignor.)						
Davis, Isaac H., Boston, Mass. Motor attachment for bicycles.	568,164	Sept. 22	2519	607	76	1791
Davis, J. F., <i>et al.</i> (See Pletcher, Levi L., assignor.)						
Davis, James, Greenville, assignor to Alabama Car and Equipment Company, Montgomery, Ala. Car-coupling.	555,437	Feb. 25	2918	693	74	1098
Davis, James M., <i>et al.</i> (See Sebastian, Charles, assignor.)						
Davis, James M., Springfield, Ark. Stock-hopper.	567,020	Sept. 1	506	119	76	1377
Davis, James W., and E. C. Brown, West, Tex. Knee-pad.	554,776	Feb. 18	1725	404	74	859
Davis, Jerome E. (See Kerr, Charles, assignor.)						
Davis, Jerome E., Oak Park, Ill. Rack for presses.	569,547	Oct. 13	1419	336	77	285
Davis, Jesse M., St. Joseph, Mo. Clasp.	568,525	Sept. 29	3163	761	76	1926
Davis, John, Allegheny, Pa. Filter.	558,485	Apr. 21	1729	417 418	75	360
Davis, John, Allegheny, Pa. Filter.	564,305	July 21	1878	442	76	377
Davis, John, Allegheny, Pa. Filter.	572,196	Dec. 1	176	43	77	1312
Davis, John B., assignor of one-half to E. H. Burridge, Abingdon, Ill. Flue-cap.	559,266	Apr. 28	3134	757	75	640
Davis, John C. (See Kindt, Frederick, assignor.)						
Davis, John E., Conway, N. H., assignor of one-half to E. D. Holmes, Newton, Mass. Furnace, range, or stove door.	562,511	June 23	2521	612	75	1904
Davis, John G. J., Augusta, Ga. Weighing-scale.	556,308	Mar. 10	1503	349	74	1427
Davis, John G. J., Augusta, Ga. Window-shade.	557,771	Apr. 7	450	106	75	85
Davis, John R., and T. J. Webb, Leander, Tex. Baling-press.	561,496	June 2	770	189	75	1515
Davis, John S., Rockport, Ohio. Reaping and binding machine.	557,193	Mar. 31	3051	730 731 732 733 734	74	1772
Davis, John T., assignor of one-half to C. J. Moffett, St. Louis, Mo. Duplex-ribbon mechanism for type-writing machines.	555,435	Feb. 25	2911	691 692	74	1096
Davis, Jordon G. (See Morris, Thomas R., assignor.)						
Davis, Joseph P., New York, N. Y., assignor to American Bell Telephone Company, Boston, Mass. Switchboard for telephone-exchanges.	559,366	May 5	28	7	75	686
Davis, Joseph P., New York, N. Y., assignor to American Bell Telephone Company, Boston, Mass. Switching apparatus for telephone-exchanges.	559,367	May 5	29	8	75	686
Davis, L. Tyler. (See Kidney, Henry P., assignor.)						
Davis, Lawrence W., assignor of two-thirds to G. H. Lathrop and J. A. Almstead, Rochester, N. Y. Ticket-holder.	565,333	Aug. 4	702	168	76	745
Davis, Leonard D., Erie, Pa. Tubulous steam-boiler.	571,650	Nov. 17	2151	516	77	1080
Davis, Linval W., Mineral, W. Va. Telephone-switchboard.	568,840	Oct. 6	210	50	77	42
Davis, Mary M., South Pasadena, Cal. Washing utensil.	562,459	June 23	2446	594	75	1890
Davis, Milton G., Somerville, assignor of one-third to B. F. Tripp, Boston, Mass. Dust-separator.	556,534	Mar. 17	1931	450	74	1523
Davis, Moses J., San Antonio, Tex., assignor of one-fourth to H. J. Davis, Pueblo, Colo. Locomotive-headlight.	552,989	Jan. 14	926	224	74	187
Davis, Nathan H., Philadelphia, Pa. Trolley-pole support.	557,114	Mar. 31	2896	692	74	1746
Davis, Nathan H., Philadelphia, Pa. Axle-box lid.	562,588	June 23	2669	646	75	1932
Davis, Nathan H., Philadelphia, Pa. Axle-box lid.	562,589	June 23	2670	646	75	1932
Davis, Nathan H., Philadelphia, Pa. Axle-box lid.	570,912	Nov. 10	898	209	77	834
Davis, Philander J., Rochester, N. Y. Vulcanizing apparatus.	568,129	Sept. 22	2463	591	76	1780
Davis, Robert C., Columbus, Ohio. Portable safe.	552,517	Jan. 7	26	8	74	8
Davis, Robert G., Brooklyn, N. Y., and A. M. Torrance, Bennington, Vt.; said Davis assignor to said Torrance. Electric cut-out.	557,257	Mar. 31	3172	761	74	1792
Davis, Samuel P., and C. E. Young, Danielson, Conn. Billiard-cue-tip fastener.	566,504	Aug. 25	2836	690	76	1202
Davis, Samuel Y., and H. O. Mooney, Farmington, N. H. Shade-roller.	574,141	Dec. 29	3707	884	77	2044
Davis, Septimus, <i>et al.</i> (See Gorrell, William R., assignor.)						
Davis, Simeon C., Cleveland, Ohio. Ash-sifter.	557,363	Mar. 31	3362	807	74	1830
Davis, Simeon C., Cleveland, Ohio. Stay for wire fences.	561,158	June 2	147	38	75	1394
Davis Sons & Co. (See Dorticos, Juan P., assignor.)						
Davis, William C., Denver, Colo. Ore-car.	552,750	Jan. 7	454	113	74	86
Davis, William C., Macomb, Ill. Boiler-tube cutter.	566,668	Aug. 25	3068	749	76	1243
Davis, William D. (See Murray, Richard, assignor.)						
Davis, William D., Fort Assiniboine, Mont. Riding-saddle.	568,939	Oct. 6	377	85	77	73
Davis, William E. (See Hadaway and Davis.)						
Davis, William E., and S. A. Miller, Centralia, Pa. Combination hitching-post and cut-off plug.	569,819	Oct. 20	1943	462	77	394
Davis, William F. (See McPherron, William R., assignor.)						
Davis, William F., assignor to Davis Gasoline Engine Company, Waterloo, Iowa. Cylinder for explosive-engines.	563,140	June 30	3673	879	75	2145
Davis, William J., and J. Warlick, New York, N. Y. Fastening and tightening device for straps.	560,694	May 26	2505	575	75	1227
Davis, William T., Battle Creek, Mich. Governor.	570,461	Nov. 3	36	8	77	645
Davis, Zebulon, Cleveland, Ohio. Evaporator burner or stove.	555,436	Feb. 25	2915	692 693	74	1097
Davison, Albert, Belvidere, Ill. Metallic fence-post.	561,207	June 2	237	56	75	1413
Davison, Albert, Belvidere, Ill. Gate.	572,475	Dec. 1	675	161	77	1407
Davison, Alexander H., Athens, Ga. Stool for counters.	553,108	Jan. 14	1111	277	74	228
Davison, Alexander H., Athens, Ga. Umbrella-rack.	553,109	Jan. 14	1143	277	74	229
Davison, Eliza W., Brooklyn, N. Y. Belt-keeper.	558,263	Apr. 14	1338	327	75	270

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Davison, George B., Utica, N. Y. Harrow	562,711	June 23	2876	698	75	1970
Davison, Thomas C., Woodville, Ga. Well-cleaner	557,113	Mar. 31	2895	692	74	1745
Davy, Charles F., Starkville, N. Y. Tilting spring-seat	557,494	Mar. 31	3589	860	74	1873
Davy, William H., Pewaukee, Wis. Chair	572,503	Dec. 1	727	173	77	1416
Daw, Philip. (See Phelps and Daw.)						
Dawes, Elizabeth R. (See Dawes, Mitchell, assignor.)						
Dawes, John T., Cefu Mawr, England. Advertising appliance	556,137	Mar. 10	1161	273	74	1364
Dawes, Mitchell, assignor to E. R. Dawes, Saugerties, N. Y. Glass-holder	556,337	Mar. 17	1556	364	74	1452
Dawes, Robert, Philadelphia, Pa. Spinning and twisting machine	554,217	Feb. 4	747	170	74	642
Dawnell, Charles R., et al. (See Carr, Warren H., assignor.)						
Dawson, Howard B. (See Cartledge and Dawson.)						
Dawson, John and R. S., Bradford, England. Device for lubricating spinning-spindles	564,366	July 21	1986	466	76	396
Dawson, John A., assignor of one-half to J. J. McCaughey, Northville, S. D. Newspaper-rack	572,336	Dec. 1	440	104	77	1363
Dawson, John H., assignor to Woodside Manufacturing Company, Oxford, Pa. Flour-dressing machine	567,963	Sept. 22	2133	514	76	1722
Dawson, Lydia E., Downing, Wis. Ironing-table	570,462	Nov. 3	38	9	77	646
Dawson, Robert C. (See Goldstein, Dawson, and Krouse.)						
Dawson, Robert S. (See Dawson, John and R. S.)						
Dav, A. A. (See Cook, Austin W., assignor.)						
Day, Benjamin, West Hoboken, N. J. Tubular interchangeable printer's roller	563,572	July 7	575	133	76	108
Day, Edward A., assignor to W. H. Hill Envelope Company, Worcester, Mass. Envelope-fastener	566,065	Aug. 18	2040	497	76	1037
Day, George F., Boston, Mass. Permutation-padlock	566,562	Sept. 29	3213	774	76	1935
Day, George W., Haverhill, assignor to W. Shaw, trustee, Boston, Mass. Machine for driving staples	552,013	Apr. 7	897	226	75	168
Day, Henry L., Minneapolis, Minn. Separator	567,021	Sept. 1	507	120	76	1378
Day, James A. (See White and Day.)						
Day, John, et al. (See Armstrong, Charles M., assignor.)						
Day, John A., Rochester, N. Y. Office-indicator	557,194	Mar. 31	3063	734	74	1773
Day, John H., and C. Krumholz, Cincinnati, Ohio; said Krumholz assignor to said Day. Mixing-machine	560,259	May 19	1692	385	75	1065
Day, Sherman W., assignor of one-half to I. C. Ewing, Avonmore, Pa. Hose-coupling	562,841	Oct. 6	211	50	77	42
Day, Stillman, assignor to F. A. Whitney Carriage Company, Leominster, Mass. Hub-attaching device	568,894	Oct. 6	306	70	77	59
Day, Wilbur F. (See Lavigne, Joseph P., assignor.)						
Day, Wilbur F. (See Young, Gilbert D., assignor.)						
Day, Willard G., Baltimore, Md. Thermostat	560,023	May 12	1240	278	75	930
Day, Willard W., Kossuth, Ohio. Windmill-gearing	569,277	Oct. 13	962	230	77	200
Dayton, Alton A., assignor of one-half to J. R. Phelps, San Francisco, Cal. Pen-extractor	560,611	May 19	2299	526	75	1173
Dayton Gas Engine and Manufacturing Company. (See Weinman and Euchenhofer, assignors.)						
Dayton Manufacturing Company. (See Kirby, John, Jr., assignor.)						
Dayton Manufacturing Company. (See Kirby and Kinsey, assignors.)						
Dayton, Melville E. (See Daniels, Samuel, assignor.)						
Dayton, William H., assignor to Excelsior Needle Company, Torrington, Conn. Machine for sawing round articles	558,783	Apr. 21	2228	536	75	452
De Arden, Charles F., New York, N. Y. Lock frame or case	557,772	Apr. 7	451	106	75	85
De Armit, Thompson B., Turtle Creek, Pa. Coal-tipple	555,365	Feb. 25	2722	652	74	1073
De Barge, Edward J., New Orleans, La. Bicycle-brake	567,949	Sept. 15	2103	507	76	1702
De Borggrave, Felix, Jersey City, N. J. Boat	574,083	Dec. 29	3596	859	77	2025
De Bow, Nicholas J., Harrison, N. J. Flash-light apparatus	568,336	Sept. 29	2815	677	76	1863
De Camp, Alfred H., deceased, Trenton Junction; E. A. and C. A. De Camp, executors, assignors to Trenton Iron Company, Trenton, N. J. Hoisting and conveying machine	553,778	Jan. 28	2296	544	74	473
De Camp, Clarence A., et al., executors. (See De Camp, Alfred H.)				545		
De Camp, Estelle A., et al., executors. (See De Camp, Alfred H.)						
De Camp, William H., Fort Wayne, Ind. Combined churn and ice-cream freezer	553,554	Jan. 28	1914	453	74	402
De Canio, Felix. (See Pagliughi and De Canio.)						
De Celles, Joseph H. E., Southbridge, Mass. Eyeglasses	553,975	Feb. 4	314	69	74	562
De Celles, Joseph H. E., assignor to American Optical Company, Southbridge, Mass. Eyeglasses	560,156	May 12	1486	336	75	977
De Gear, Jefferson D., San Francisco, Cal. Steam-beer governor	570,086	Oct. 27	2408	570	77	495
De Grace, William L., assignor of one-half to W. Purves, North Sydney, Canada. Thill-coupling	563,846	July 14	1054	248	76	212
De Graffenried, Allen. (See De Graffenried, Charles T. and A.)						
De Graffenried, Charles T. and A., Savannah, Ga. Nut-lock	573,397	Dec. 15	2314	573	77	1753
De Kalb Fence Company. (See Shellaberger, Michael M., assignor.)						
De Knight, Clarence W. (See Brown and Davis, assignors.)						
De La Hunt, Reverdy C., Cedar Rapids, Iowa. Measuring device and register	563,711	July 7	800	191	76	150
De La Hunt, Reverdy C., assignor to R. I. Safely and W. K. Wisner, Cedar Rapids, Iowa. Flush-tank	557,560	Apr. 7	45	13	75	10
De La Vergne Bottle and Seal Company. (See Blevney, John C., assignor.)						
De La Vergne Bottle and Seal Company. (See Clemens, Ernest V., assignor.)						
De Laney, Ella G., Conway, N. D. Kettle-cleaner	560,060	May 12	1314	294	75	944
De Lanoy, John M., Tarrytown, N. Y. Chimney-cowl	555,761	Mar. 3	461	110	74	1213
De Lent, Medor J., Chicago, Ill. Folding brush-holder	564,739	July 28	2625	625	76	532
De Leon, Carlos, Hamilton, Ohio, assignor to National Autographic Register Company, New York, N. Y. Numbering-machine	571,487	Nov. 17	1875	447	77	1029
De Long, James L., Des Moines, Iowa. Adjustable armor for bank-counters	562,712	June 23	2877	698	75	1971
De Marce, Gilbert. (See Stephens and De Marce.)				699		
De Merell, Gerard N. (See Cline, William M., assignor.)						
De Meules, Louis J., St. Paul, Minn. Music-chart	554,172	Feb. 4	686	154	74	631
De Moulin, Edmund and U. S., Greenville, Ill. Initiation apparatus for secret societies	555,499	Mar. 3	27	7	74	1135
De Moulin, Edmund and U. S., Greenville, Ill. Hoodwink	562,071	June 16	1807	436	75	1754
De Moulin, John, St. Louis, Mo., assignor to I. L. Taylor, Schoharie, N. Y. Brake-handle cap	558,899	Apr. 21	2425	590	75	490
De Moulin, Ulysses S. (See De Moulin, Edmund and U. S.)						
De Moss, John P., Jr., Grand Pass, Mo. Harrow	573,505	Dec. 22	2546	603	77	1813
De Mott, Charles W., assignor of one-fourth to D. P. Bloodgood, Brooklyn, N. Y. Electric gas-lighting apparatus	571,723	Nov. 17	2276	546	77	1104
De Renier, Jared R., assignor of one-half to C. W. Durand, Glenwood Springs, Colo. Boiler tube or flue	573,646	Dec. 22	2819	666	77	1867

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De Rome, Louis, San Francisco, Cal. Bicycle.....	571,302	Nov. 10	1567	372	77	960
De Rycke, Jules J. J. (See Mailloux, Cyprien O., assignor.)						
De Steiger, Joseph L., La Salle, Ill. Fruit-jar.....	574,306	Dec. 29	4040	960	77	2105
De Tamble, Edward S., assignor to Union Embossing Machine Company, Indianapolis, Ind. Embossing-machine.....	572,197	Dec. 1	177	43	77	1312
De Vilbiss, Allen, Toledo, Ohio. Bone-forceps.....	571,040	Nov. 10	1114	261	77	874
De Vore, George E. (See Olds and De Vore.)						
De Witt, Charles. (See Waterman, Frank W., assignor.)						
De Witt, Clinton C., assignor of one-third to J. C. Shank, St. Louis, Mo. Combined gang-plank and conveyor.....	553,361	Apr. 14	1491	366	75	299
De Witt, David M., Morrilton, and W. K. Elliott, Little Rock, Ark. Electric-railway system.....	564,054	July 14	1449	{ 337 338 }	{ 76 76 }	{ 284 284 }
De Wolf, John O., Cambridge, Mass. Apparatus for repairing pneumatic tires.....	561,378	June 2	558	140	75	1478
De Zamora, Juan. (See Kinemann and De Zamora.)						
Deacon, William P. (See Meeker and Deacon.)						
Deadwyler, Joseph P., Fort Lamar, Ga. Adjustable spine-protecting back-band.....	573,396	Dec. 15	2313	553	77	1753
Deal, Josiah J., Canton, Ohio. Combination-lock.....	552,896	Jan. 14	769	187	74	153
Deal, Josiah J., Canton, Ohio. Toy.....	570,595	Nov. 3	301	71	77	694
Dealtry, William J., assignor to Brennan & Company South Western Agricultural Works, Louisville, Ky. Seeding-machine.....	553,705	Jan. 28	2177	515	74	450
Dean, Albert H., assignor to Wire Goods Company, Worcester, Mass. Swaging machinery.....	555,641	Mar. 3	275	64	74	1180
Dean, Alvin H. B., New Bedford, Mass. Washing-machine.....	572,337	Dec. 1	441	104	77	1363
Dean, Claude D., assignor of one-half to P. B. Ratcliffe, Westpalmbeach, Fla. Time-lock.....	563,456	July 7	371	85, 86	76	72
Dean, Charles A., Boston, Mass., W. H. Cunningham, Waterville, F. E. Boston, Gardiner, and J. L. Dean, Winslow, Me., assignors to Hollingsworth & Whitney Company, Boston, Mass. Apparatus for making pulp articles.....	558,675	Apr. 21	2049	494	75	418
Dean, Charles A., Boston, Mass., W. H. Cunningham, Waterville, F. E. Boston, Gardiner, and J. L. Dean, Winslow, Me., assignors to Hollingsworth & Whitney Company, Boston, Mass. Apparatus for making pulp articles.....	558,676	Apr. 21	2050	{ 494 495 }	{ 75 75 }	{ 418 418 }
Dean, Cyrus S., Fort Erie, Canada, assignor of one-half to C. O. Rano, Buffalo, N. Y. Boiler-flue cleaner.....	561,497	June 2	772	189	75	1516
Dean, Emmet A., Clear Lake, Wis. Ice-velocipede.....	564,306	July 21	1880	442	76	378
Dean, Francis M., Huron, S. D. Track-sander.....	554,056	Feb. 4	460	103	74	589
Dean, Francis M., Huron, S. D. Pneumatic track-sander.....	563,751	July 14	870	207	76	179
Dean, Francis W., Cambridge, Mass. Steam-boiler.....	565,106	Aug. 4	268	64	76	666
Dean, Frank H., Seymour, Wis. Stump-puller.....	572,598	Dec. 8	899	217	77	1468
Dean, George A., Mingo Junction, Ohio. Boshing apparatus.....	561,570	June 9	915	219	75	1568
Dean, Gerard Q. and J., Jr., New York, N. Y. Automatic telephone-call.....	561,377	June 2	556	140	75	1477
Dean, Harry C., Long Island City, N. Y. Pneumatic tire.....	560,196	May 19	1566	355	75	1043
Dean, Jacob W., and J. C. Snyder, Springfield, Ohio. Street-car motor.....	561,769	June 9	1269	{ 302 303 }	{ 75 75 }	{ 1636 1636 }
Dean, James L. (See Dean, Cunningham, Boston, and Dean.)						
Dean, John, Jr. (See Dean, Gerard Q. and J., Jr.)						
Dean, John A. (See Powers, William H., Jr., assignor.)						
Dean, John R., Sulphur Springs, Tex., assignor of one-half to J. G. Stevenson, P. F. Gully, and J. P. Hightower, Summerfield, La. Combination-plow.....	563,752	July 14	872	{ 207 208 }	{ 76 76 }	{ 179 179 }
Dean, Richard, assignor to J. B. Meriam, Cleveland, Ohio. Artificial asphaltum and making same.....	564,975	Aug. 4	28	.....	76	622
Dean, Truman W. (See Meats and Dean.)						
Dean, William H., West Berkeley, Cal. Window.....	557,653	Apr. 7	240	59	75	45
Dean, William W. (See Durant, Dean, and Childs.)						
Dean, William W., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Electric switching apparatus.....	559,792	May 12	766	124	75	841
Dean, William W., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Telephone-exchange system.....	560,845	May 26	2770	636	75	1279
Dean, William W., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Party-line telephone apparatus.....	561,498	June 2	774	190	75	1516
Dean, William W., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Telephone-exchange system.....	564,328	July 21	1918	453	76	384
Dean, William W., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Rheostat.....	567,223	Sept. 8	850	201	76	1454
Dean, William W., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Telephone-exchange system.....	573,575	Dec. 22	2662	632	77	1836
Dean, William W., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Common battery telephone system.....	573,576	Dec. 22	2664	632	77	1836
Deane, Albert L., et al. (See Coleman, Clyde, assignor.)						
Deane, Charles C., Wayland, Mich. Hat display rack.....	562,809	June 30	3055	739	75	2023
Deane, George W., assignor to N. Deane, Riverside, Cal. Seed-planter attachment for plows.....	567,335	Sept. 8	1075	257	76	1493
Deane, Nellie. (See Deane, George W., assignor.)						
Dearborn, George W., Lynn, Mass. Seat for counters.....	571,651	Nov. 17	2153	517	77	1080
Dearborn, John S., Lynn, Mass. File-wrapper for holding bills, papers, &c.....	562,284	June 16	2145	522	75	1818
Dearborn, Richard J., assignor of one-half to F. J. Hughes, Boston, Mass. Knife-sharpener.....	563,023	June 30	3460	831	75	2105
Dearmont, Lee, Mound City, Mo. Sliding gate.....	571,343	Nov. 17	1635	388	77	986
Deats, William, Amawalk, N. Y. Telegraph-key.....	554,112	Feb. 4	578	131	74	609
Debombourg, Guillaume, Collonges, France, assignor of one-half to G., J., and A. Saxon, Openshaw, England. Forging and welding machine.....	571,344	Nov. 17	1636	388	77	987
Debruhl, Edward M. (See McIver and Debruhl.)						
Decarie, Felix L., Montreal, Canada. Apparatus for cleaning gutters, &c.....	556,338	Mar. 17	1557	{ 364 365 }	{ 74 74 }	{ 1432 1432 }
Dechenne, Henry A., Woburn, Ill. Mop-wringer.....	568,895	Oct. 6	307	70	77	59
Deck, Henry, assignor to J. W. P. M., and J. F. Braun, Philadelphia, Pa. Lawn-mower.....	570,699	Nov. 3	523	132	77	736
Deck, Marion T., Milton, Ind. Wire fencing.....	565,966	Aug. 18	1280	457	76	1006
Deck, Marion T., Milton, Ind. Wire-bender.....	566,379	Aug. 25	2585	631	76	1156
Deck, Thomas F., Swanton, Ohio. Level.....	573,211	Dec. 15	1979	476	77	1693
Decker, Charles H., assignor to F. W. Decker, Detroit, Mich. Cash-register.....	556,047	Mar. 10	999	{ 238 239 }	{ 74 74 }	{ 1335 1335 }
Decker, Charles W. (See Baisley and Decker.)						
Decker, Francis A. (See Jonas, Charles, assignor.)						
Decker, Francis A., Philadelphia, Pa. Hook and eye.....	564,821	July 28	2766	657	76	556
Decker, Frank L., Lestershire, N. Y. Game apparatus.....	551,869	June 9	1447	349	75	1668
Decker, Frederick W. (See Decker, Charles H., assignor.)						
Decker, Ira. (See Long and Riedel, assignors.)						
Decker, Judd. (See Waite, John H., assignor.)						
Decker, Mark M., Washington, Pa. Car-coupling.....	554,376	Feb. 11	964	223	74	698
Decker, Millard F., assignor to Chicago Last and Die Company, Chicago, Ill. Last.....	563,573	July 7	577	133	76	108

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Decker, William L., Worcester, Mass. Crank and pedal	571,753	Nov. 24	2354	563	77	1137
Deckert, Joseph O., assignor to William Mann Company, Philadelphia, Pa. Copying-machine	553,805	Jan. 28	2339	557 558	74	481
Dederick, Peter K., Loudonville, N. Y. Bale-band fastener	562,122	June 16	1881	456	75	1768
Dederick, Peter K., Loudonville, N. Y. Wire-bale-tie-making machine	562,123	June 16	1882	456	75	1768
Dederick, Solon, Milwaukee, Wis. Apparatus for gathering, elevating, and transporting hogs	555,233	Feb. 25	2542	599	74	1028
Deechan, Lillie. (See Gallagher, Hugh, assignor.)						
Deere & Company. (See Poole, Staley D., assignor.)						
Deegan, Joseph P., St. Louis, Mo. Carpenter's square	566,970	Sept. 1	420	98	76	1361
Deegan, Thomas, Chicago, Ill. Water-tube steam-boiler	567,456	Sept. 8	1278	309 310	76	1530
Deering Harvester Company. (See Ellis, George H., assignor.)						
Deering Harvester Company. (See Hanson, Paul, assignor.)						
Deering Harvester Company. (See Peck, Ezra A., assignor.)						
Deering, Mark L., Brooklyn, N. Y. Machine for molding hollow ware from pulp	563,753	July 14	874	208 209	76	180
Dees, Annie S., agent and trustee, <i>et al.</i> (See Dees, Mark A., assignor.)						
Dees, Mark A., Moss Point, Miss., assignor to G. H. Howard, Washington, D. C., and A. S. Dees, agent and trustee. Machine for sawing logs	555,037	Feb. 18	2186	521	74	944
Defiance Machine Works. (See Ensign, George A., assignor.)						
Defiance Machine Works. (See Seymour, Charles, assignor.)						
Degener, Heinrich, Rummelsburg, and R. Deissler, Treptow, Germany; said Degener assignor to said Deissler. Draft-regulator for locomotives	570,983	Nov. 10	1011	235 236	77	855
Dehaitre, Fernand, Paris, France. Machine for folding fabrics	554,020	Feb. 4	399	87	74	578
Dehart, Winfield S., Bloomfield, N. J. Brake-shoe	561,972	June 16	1617	393	75	1721
Dehler, Edward E., Woneoc, Wis. Fence-wire clamp	552,827	Jan. 7	618	150	74	116
Dehn, Carl W., assignor to C. J. Rosen, Jr., Topeka, Kans. Rail-joint	569,036	Oct. 6	553	127	77	105
Dehn, George J., Iron Mountain, Mich. Sewer-gastrap	564,475	July 21	2166	507	76	429
Dehne, Firm of A. L. G. (See Dehne and Harzer, assignors.)						
Dehne, Max, Halle-on-the-Saale, Germany, and C. Harzer, London, England, assignors to Firm of A. L. G. Dehne, Halle-on-the-Saale, Germany. Filter-press	564,422	July 21	2083	487	76	415
Deibert, William E., Shamokin, Pa. Hasp-lock	553,337	Jan. 21	1545	369	74	317
Deibert, William E., Shamokin, Pa. Sliding-door lock	556,309	Mar. 10	1504	340 341	74	1427
Deihm, John R., Pottsville, Pa. Bedstead	556,404	Mar. 17	1680	391 392	74	1476
Deihm, John R., Pottsville, Pa. Folding bedstead	569,548	Oct. 13	1423	336	77	285
Deimel, Francis. (See Gras, Charles A., assignor.)						
Deininger, August, Berlin, Germany. Maltng apparatus	567,124	Sept. 8	699	162	76	1426
Deiss, Joseph, Ranspach, Germany, assignor to Patchett Brothers, Halifax, England. Fastener for securing card-clothing to bars of flats	564,052	July 14	1446	336	76	284
Deissler, Robert. (See Degener and Deissler.)						
Deissler, Robert, Treptow, Germany. Combined spark-arrester and draft-regulator	570,984	Nov. 10	1012	236	77	855
Deissler, Robert, Treptow, Germany. Combined draft-regulator and spark-arrester	570,985	Nov. 10	1015	236 237	77	856
Deitsch, Charles and E. J., New York, N. Y. Combined waist and skirt pin and belt slide and keeper	574,084	Dec. 29	3598	860	77	2025
Deitsch, Edward J. (See Deitsch, Charles and E. J.)						
Deitz, Henry, Chicago, assignor to J. E. and L. Z. Gross and J. H. and L. H. Zearing, Cook county, Ill. Car-coupling	561,541	June 2	861	207	75	1532
Deitz, Henry, Chicago, assignor to J. E. and L. Z. Gross and J. H. and L. H. Zearing, Cook county, Ill. Car-coupling	561,542	June 2	862	207	75	1533
Deitz, Henry, Chicago, assignor to J. E. and L. Z. Gross and J. H. and L. H. Zearing, Cook county, Ill. Car-coupling	561,543	June 2	864	208	75	1533
Dejonte, Louis, Jr., Stapleton, N. Y. Machine for coloring or coating paper or like material	557,056	Mar. 24	2802	666 667	74	1704
Dela Mar, Joseph, assignor to Champion Tobacco Machine Company, New York, N. Y. Machine for forming continuous fillers for cigars	554,635	Feb. 11	1486	347 348	74	797
Delahunt, Charles, Olathe, Kans. Motor-propelled vehicle	568,431	Sept. 29	2970	714	76	1892
Delahunt, Charles, Olathe, Kans. Means for rigidly connecting parts of buildings with each other and with the foundations	573,452	Dec. 22	2459	583	77	1798
Delane, John, Jr., and J. F. Blue, Terre Haute, Ind. Railway frog or crossing	554,911	Feb. 18	1959	461	74	904
Delaney, James G., New York, N. Y. Conveying apparatus	555,060	Feb. 25	2284	511	74	978
Delaney, James G., New York, N. Y. Conveying apparatus	561,973	June 16	1619	394	75	1721
Delaney, John, assignor to Helme & McIlhenny, Philadelphia, Pa. Prepayment sale and delivery mechanism	569,147	Oct. 6	735	172 173 174	77	139
Delaney, John, assignor to Helme & McIlhenny, Philadelphia, Pa. Prepayment sale and delivery mechanism	569,148	Oct. 6	742	174	77	140
Delaney, Joseph, Ashland, Pa. Ratchet auger-handle	560,122	May 12	1429	321	75	967
Delany, Patrick B., South Orange, N. J. Telegraphy	553,957	Feb. 4	284	63	74	557
Delany, Patrick B., South Orange, N. J. Electric heater, resistance, or rheostat	554,910	Feb. 18	1958	461	74	904
Delany, Patrick B., South Orange, N. J. Electric railway	557,258	Mar. 31	3174	761	74	1793
Delavan, Alfred M. (See Woodruff, Mina, assignor.)						
Delin, Charles C., Paris, France. Engraving and carving machine	560,574	May 19	2234	511 512	75	1161
Della Torre, Frank, assignor of one-half to E. Hammond, Baltimore, Md. Automatic lubricator for bicycles	566,147	Aug. 18	2184	531	76	1063
Dellinger, Thomas G., assignor to L. Schmidt, Bremond, Tex. Horseshoe	570,278	Oct. 27	2752	655	77	560
Dellwik, Carl, Rogers Park, Ill. Apparatus for manufacturing fuel-gas	570,382	Oct. 27	2971	704	77	600
Dellwik, Carl, Rogers Park, Ill. Gas-generating apparatus	570,383	Oct. 27	2973	705	77	600
Delmar, William J. (See Nicolaus and Delmar.)						
Delmonte, Gaetano, New York, N. Y. Power-generating apparatus	559,969	May 12	1136	253 254	75	912
Delong, Richard, Torch Lake, Mich. Meat-tenderer	572,527	Dec. 8	770	183	77	1440
Deloye, Constant G., Lenox, Mass. Gate	561,870	June 9	1448	349	75	1668
Delpoyrou, Antoine A., and L. J. Rousselin, Paris, France. Pump	562,285	June 16	2146	522	75	1818
Dellzell, Hattie, Jackson, Cal. Miner's lantern	567,889	Sept. 15	2003	481	76	1684
Demand, Nancy, <i>et al.</i> (See McLain, Peter J., assignor.)						
Demarest, Zachariah, Brooklyn, N. Y. Waist	559,793	May 12	769	185	75	841
Demege, Valère E. L., Paris, France. Apparatus for manufacturing armor-plates or the like	564,053	July 14	1447	337	76	284
Deming Company. (See Benedict, Edward A. and C., assignors.)						
Deming Company. (See Deming, William L., assignor.)						
Deming Company. (See Garber, Jesse B., assignor.)						
Deming, Eugene W., New Orleans, La. Apparatus for clarifying solutions	566,726	Aug. 25	3172	776	76	1265

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Deming, Ferdinand, Waterbury, Conn. Safety-pin.....	571,943	Nov. 24	2695	638	77	1203
Deming, Ferdinand, assignor to Randolph & Clowes, Waterbury, Conn. Stripping device.....	560,480	May 19	2081	474	75	1133
Deming, Henry M., Rootstown, Ohio. Mowing-machine.....	553,779	Jan. 28	2299	545	74	474
Deming, Philander, Albany, N. Y. Type-writing machine.....	553,842	Feb. 4	54	11	74	515
Deming, Philander, Albany, N. Y. Type-writing machine.....	554,659	Feb. 18	1528	361	74	821
Deming, William L., assignor to Deming Company, Salem, Ohio. Spraying-nozzle.....	557,977	Apr. 7	803	192	75	152
Demorest, Allen T., assignor of one-half to M. L. Wilson, A. T. Dimmick, and W. D. Sinclair, Belding, Mich. Wall-rack.....	570,384	Oct. 27	2975	705	77	600
Demorest, Charles, Fort Ann, N. Y. Toy.....	571,754	Nov. 24	2356	563	77	1137
Dempsey, Edwin E., Newark, N. Y. Blowpipe-lamp.....	568,403	Sept. 29	2923	704	76	1883
Dempsey, James, assignor to Berlin Iron Bridge Company, Berlin, Conn. Means for supporting and moving electric lamps.....	554,245	Feb. 11	805	184	74	668
Dempster, Charles B., J. N. McDowell, and F. H. Kline, assignors to Dempster Mill Manufacturing Company, Beatrice, Nebr. Gearing for windmills.....	566,380	Aug. 25	2587	631 632	76	1156
Dempster Mill Manufacturing Company. (See Dempster, McDowell, and Kline.)						
Denayrouze, Louis, Paris, France. Gas-burner.....	555,307	Feb. 25	2684	628	74	1055
Denayrouze, Louis, Paris, France. Automatic speed-regulator for electromotors.....	573,767	Dec. 22	3017	714 715	77	1904
Denekas, Claas, Washington, D. C. Machine for cutting yeast-cakes.....	571,345	Nov. 17	1637	389	77	987
Deneys, Charles. (See Broemme, Edward, assignor.)						
Denghausen, Frederick L. (See Spielman, George D., assignor.)						
Dengo, Manuel V., San José, Costa Rica. Breech-loading firearm.....	562,286	June 16	2147	522 523	75	1818
Denhard, Frederick W., Reading, Pa. Saw-set.....	568,084	Sept. 22	2386	575	76	1766
Denig, Augustus M., Riverside, Cal. Fruit-picker's basket or can.....	570,365	Oct. 27	2976	705	77	600
Denio Smoke Consumer Company. (See Denio, William L., assignor.)						
Denio, William L., Rochester, N. Y., assignor to Denio Smoke Consumer Company. Nozzle for injecting steam into furnaces.....	564,873	July 28	2852	683 684	76	573
Denio, William L., assignor to Standard Electric Signal Company, Rochester, N. Y. Electric switch.....	565,673	Aug. 11	1330	321	76	683
Denis, Edward, Green Bay, Wis. Staple.....	563,913	July 14	1186	279	76	237
Denis, Harry R., New Orleans, La., and C. Bramberg, Brooklyn, N. Y., assignors to H. Denis, New Orleans, La. Metallic envelop-seal.....	564,781	July 28	2701	642	76	545
Denis, Henry. (See Denis and Bramberg, assignors.)						
Denis, James H., et al. (See Morris, James E., assignor.)						
Denis, Jules, Wygmael, Belgium. Sieve for flour-mills.....	571,219	Nov. 10	1422	332	77	931
Denison, Arthur E., et al. (See Robinson, Thomas C., assignor.)						
Denison, Charles W. (See Reger and Denison.)						
Denison, Frank L., deceased; H. G. Denison, executrix, Belton, Tex. Printer's galley.....	554,246	Feb. 11	807	184	74	668
Denison, George D. (See Reger and Denison.)						
Denison, Hannah G., executrix. (See Denison, Frank L.)						
Denison, Howard P., trustee. (See Twiss and Barber, assignors.)						
Denison, Louis B., Delaware, Ohio. Surveying-instrument.....	552,751	Jan. 7	455	114	74	86
Denk, Josef, Vienna, Austria-Hungary. Coffee-making machine.....	555,500	Mar. 3	29	7	74	1135
Denman, Samuel S., Paxton, Ill. Weather-strip.....	559,686	May 5	565	133	75	790
Denmead, John W., Akron, Ohio, assignor to Diamond Match Company, Chicago, Ill. Match.....	571,154	Nov. 10	1327	309	77	913
Dennett, Charles N., Amesbury, Mass. Carriage.....	557,195	Mar. 31	3064	734	74	1773
Denney, Harmer. (See Dale and Denney.)						
Denney, William H., assignor of one-half to W. F. Hull, New York, N. Y. Wall or house construction.....	553,483	Jan. 21	1785	425	74	362
Dennin, Edwin C. (See Lundquist, Charles P., assignor.)						
Dennis, Alfred P. (See Sessions and Dennis.)						
Dennis, Clara E. (See Dennis, James W., assignor.)						
Dennis, Henry P., assignor of two-thirds to J. H. Ellis and A. D. Potter, Peoria, Ill. Automatic weighing and filling apparatus.....	572,504	Dec. 1	728	173	77	1416
Dennis, James W., Cincinnati, Ohio. Absorbent for amalgam fillings.....	553,451	Jan. 21	1725	411	74	351
Dennis, James W., assignor to C. E. Dennis, Cincinnati, Ohio. Dental tool and plugger.....	569,093	Oct. 6	649	149	77	124
Dennis, John B., et al. (See Major, Charles W., assignor.)						
Dennis, Joseph, W. S. Metcalfe, and J. A. Sherman, Worcester, Mass. Envelop-machine.....	558,784	Apr. 21	2229	537 538 539 540	75	452
Dennis, Wilber, Indianapolis, Ind. Governor for engines.....	559,054	Apr. 28	2700	657	75	558
Dennison, Robert A., Chicago, Ill. Spark-guard, &c.....	566,846	Sept. 1	190	43	76	1318
Dennison, Thomas C., Oamaru, New Zealand. Driving-band.....	556,663	Mar. 17	2119	495	74	1558
Densmore, Darsa J. (See Briggs, William H., assignor.)						
Densmore Typewriter Company. (See Merritt, Henry W., assignor.)						
Densmore Typewriter Company. (See Merritt, Mortimer G., assignor.)						
Dentenax Company. (See Campbell, John S., assignor.)						
Denton, Herbert B., Lake View, Minn. Hoist-drum.....	574,025	Dec. 29	3599	860 861	77	2025
Denton, Lemi B., Grand Rapids, Mich. Caster.....	553,025	Jan. 14	979	237	74	197
Denton, Lemi B., Grand Rapids, Mich. Caster.....	553,026	Jan. 14	980	237	74	197
Denton, Lemi B., Grand Rapids, Mich. Caster.....	555,623	Mar. 3	342	78	74	1191
Denton, Lemi B., assignor of one-half to O. A. Ward, Grand Rapids, Mich. Caster-case.....	569,959	Oct. 20	2184	518	77	438
Denzel, Gustav A., Philadelphia, Pa. Carousel.....	573,577	Dec. 22	2666	632	77	1837
Densmore, Darsa J., and W. H. Briggs, Brooklyn, N. Y. Folding opera-glass.....	567,890	Sept. 15	2004	481	76	1685
Denver Automatic Car Coupler Company. (See Moe, Leonidas L., assignor.)						
Denver, Henry, Springfield, Mass., assignor to Universal Electric Messenger-Call Company, Portland, Me. Messenger-call system for buildings.....	552,897	Jan. 14	770	187	74	158
Denzel, Fannie E., Great Falls, Mont. Ribbon-retainer.....	557,115	Mar. 31	2897	692	74	1746
Depew, Granson. (See Frick, Louis C. S., assignor.)						
Deplanty, Charles F., and E. E. Wilson, assignors to said Wilson, E. Erne, and J. W. Uncapher, Coffeyville, Kans. Attachment for wagon-seats.....	557,773	Apr. 7	452	106	75	85
Deport, Joseph A., Paris, France. Hydraulic brake apparatus for ordnance.....	565,607	Aug. 11	1211	291	76	859
Deport, Joseph A., Paris, France. Support for rotary turrets, &c.....	565,608	Aug. 11	1214	292	76	860
Deport, Joseph A., Paris, France. Gun-carriage.....	565,609	Aug. 11	1216	292	76	861
Deport, Joseph A., Paris, France. Revolving gun-turret.....	565,610	Aug. 11	1218	293 294	76	861
Deport, Joseph A., Paris, France. Breech-closing mechanism for rapid-fire guns.....	567,224	Sept. 8	851	202 203 204	76	1454
Deport, Joseph A., Paris, France. Breech mechanism for ordnance.....	567,225	Sept. 8	854	203 204	76	1455
Deport, Joseph A., Paris, France. Gun-carriage.....	571,557	Nov. 17	2003	476	77	1052

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Depro, George W., and W. H. Baker, assignors of one-third to C. P. Greene, Washington, D. C. Non-refillable bottle.....	557,081	Sept. 1	620	143	76	1399
Depuy, Enos F., Port Richmond, N. Y. Oil-stove.....	563,574	July 7	577	133 134	76	108
Derby, George H., Somerville, Mass. Finishing-machine.....	559,166	Apr. 23	2942	710 711	75	604
Derby, Oscar G. (See Goff, Frank, assignor.)						
Dermore, Douglas, <i>et al.</i> (See Johnson, Hans G., assignor.)						
Deritis, Joseph, assignor of one-half to F. C. Hauser, Detroit, Mich. Fastening for trunks.....	566,148	Aug. 18	2186	531	76	1064
Derr, Frank P., Baltimore, Md. Cup.....	566,563	Aug. 25	2920	713	76	1320
Derr, Heister C., Nescopeck, assignor of one-half to B. R. Yetter, Mainville, Pa. Railway-switch.....	564,916	July 28	2910	697	76	584
Derrenberger, Adam, Tacoma, Wash. Gold-separator.....	554,912	Feb. 18	1960	461 462	74	904
Derrick, William E., Palmyra, N. Y. Attachment for type-writing machines.....	559,571	May 5	376	91	75	755
Dersch, Anthony S., North Greenfield, assignor of one-half to J. A. and J. T. Girmscheid, Milwaukee, Wis. Harness-saddletree.....	564,976	Aug. 4	29	6	76	622
Des Granges, John C., <i>et al.</i> (See Burton, Charles C., assignor.)						
Des Portes, Hippolyte V., Manchester, Va. Artificial tooth.....	557,654	Apr. 7	241	59	75	45
Deschamps, Francis O., Philadelphia, Pa. Rotary steam-engine.....	568,337	Sept. 29	2817	677 678	76	1863
Desmond, Jeremiah F. (See Rhodes, John J., assignor.)						
Desmond, John, assignor to Pemberton Injector Company, Detroit, Mich. Injector.....	554,415	Feb. 11	1103	256	74	725
Dersch, John, assignor to E. A. Pickard, Detroit, Mich. Ink-well.....	566,971	Sept. 1	421	98	76	1361
Desserich, Jacob. (See Roat, Charles, assignor.)						
Determan, James, Brooklyn, N. Y. Placket-fastener.....	560,085	May 12	1358	304	75	932
Deters, Joseph, Louisville, Ky. Stave-bending machine.....	555,566	Mar. 3	138	32, 33	74	1156
Detert, Henry O., Louisville, Ky. Tack-lifter.....	561,499	June 2	777	190	75	1517
Detling, Charles E., Ansonia, Ohio. Corn-harvester.....	569,549	Oct. 13	1424	337	77	285
Detrick, Jacob S. (See Connett and Detrick.)						
Detrick, Jacob S., Baltimore, Md. Bottle-sealing device.....	572,338	Dec. 1	442	104	77	1363
Detrick, James, King's Ferry, N. Y. Combined carpet-stretcher and tack-holder.....	570,463	Nov. 3	39	9	77	646
Detroit Casket Company. (See Blackford and Holdsworth, assignors.)						
Detroit Liquid Separating Company. (See Chamberlain, Marvin H., assignor.)						
Dettnar, John F., executor. (See Weeks, John, assignor.)						
Detwiler, Alfred E., assignor to Milwaukee Gas Stove Company, Milwaukee, Wis. Stove-door hinge.....	553,484	Jan. 21	1786	426	71	362
Detwiler, Alfred E., assignor to Milwaukee Gas Stove Company, Milwaukee, Wis. Gas-burner.....	571,431	Nov. 17	1778	424	77	1012
Detwiler, Emanuel, Milwaukee, Wis. Water-heater.....	553,110	Jan. 14	1144	277	71	229
Detzer, Henry C., Fraser, assignor of one-half to J. F. Hoffmeyer, Roseville, Mich. Harness.....	567,850	Sept. 15	1948	466	76	1673
Deutsche Bierfass-Automat-Gesellschaft. (See Dräger, Heinrich and B., assignors.)						
Deutsch, William M., Elizabeth, N. J. Cleansing-filter.....	553,641	Jan. 28	2072	483	74	430
Deutsche Automaten-Gesellschaft, Stollwerck & Co. (See Hambruch, Heinrich F., assignor.)						
Deutschman, Jacob H., Boston, Mass. Bicycle-skirt.....	557,495	Mar. 31	3590	360	71	1473
Devendorf, De Witt A., Fort Hunter, N. Y. Broom-trimming machine.....	561,770	June 9	1271	303	75	1636
Dever, John E., and C. A. Cutter, assignors to Randolph & Clowes, Waterbury, Conn. Boiler.....	553,395	Jan. 21	1640	392	74	335
Devine, Edward J., Schreiber, Canada. Electric signal for railway-trains.....	558,602	Apr. 21	1921	467	75	393
Devine, William P., Newark, N. J. Type-writing-machine cushion-key.....	558,872	Apr. 21	2320	520	75	481
Devis, Edwin C. J. (See Brown and Devis.)						
Devlin, Joseph H., Worcester, Mass. Apparatus for flushing water-closets.....	562,174	June 16	1965	476	75	1785
Devlin, Michael. (See Wolfe and Devlin.)						
Devoe, Arnot K., Boston, Mass. Shaving-stand.....	559,572	May 5	377	91	75	756
Devoe, Benjamin G., Lima, Ohio. Hydrocarbon generator and burner.....	568,748	Oct. 6	58	14	77	14
Devoe, Daniel L., Fort Plain, N. Y. Undergarment.....	562,287	June 16	2150	523	75	1819
Dewoll, William, Erdington, England. Ball-bearing.....	567,125	Sept. 8	700	163	76	1426
Devore, Levi M., Freeport, Ill. Device for repairing pneumatic tires.....	570,155	Oct. 27	2525	599	77	517
Devore, Levi M., assignor of one-half to M. H. Wilcox, Freeport, Ill. Sheet-metal corner-iron.....	564,273	July 21	131	428	76	369
Devoy, Catherine, New York, N. Y. Meat-broiler.....	565,107	Aug. 4	270	65	76	667
Deward, Peter. (See Donnelly, Samuel A., assignor.)						
Dewberry, Joel J., Hickory Flat, Ala. Planter.....	556,405	Mar. 17	1681	392	74	1476
Dewey, A. T. (See Barney, Edward, assignor.)						
Dewey, A. T., <i>et al.</i> (See Strain, Robert R., assignor.)						
Dewey, Edwin B., Jamestown, N. Y. Printer's chase.....	572,413	Dec. 1	586	139	77	1390
Dewey Electric Heating Company. (See Dewey, Mark W., assignor.)						
Dewey Electric Signal Company. (See Sterling, Charles B., assignor.)						
Dewey, Frederic P., Washington, D. C. Treating sulfids.....	561,544	June 2	865		75	1533
Dewey, Frederic P., assignor of one-half to J. H. Walter, Washington, D. C. Treating mixtures containing sulfids.....	561,571	June 9	917		75	1568
Dewey, Mark W., assignor, by mesne assignments, to Dewey Electric Heating Company, Syracuse, N. Y. Electric heating apparatus.....	566,564	Aug. 25	2921	713	76	1220
Dewrance, John, and G. H. Wall, London, England. Cock.....	567,524	Sept. 15	1496	358	76	1566
Dexter, Charles L. (See Seymour, George L., assignor.)						
Dexter Folder Company. (See Dexter, Talbot C., assignor.)						
Dexter Folder Company. (See Parker and Dexter, assignors.)						
Dexter, Frank E., assignor of one-half to Leavitt Machine Company, Orange, Mass. Machine for repairing valves and valve-seats.....	560,481	May 19	2082	474 475	75	1134
Dexter, Talbot C. (See Parker and Dexter.)						
Dexter, Talbot C., Pearl River, N. Y. Paper-feeding machine.....	561,772	June 9	1273	305 306 307	75	1637
Dexter, Talbot C., Pearl River, N. Y. Feeder's helper for paper-feeding machines.....	561,773	June 9	1274	308 309 240	75	1638
Dexter, Talbot C., Pearl River, N. Y. Automatic stop-motion device.....	567,302	Sept. 8	1010	241 242	76	1482
Dexter, Talbot C., Pearl River, N. Y. Stop mechanism for printing-presses.....	567,303	Sept. 8	1015	242 243	76	1483
Dexter, Talbot C., Fulton, assignor to Dexter Folder Company, New York, N. Y. Paper-registering machine.....	554,913	Feb. 18	1963	462 463	74	904

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Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Machine for registering sheets of paper	561,771	June 9	1273	{ 304 305	75	1636
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Packing-box for paper-folding machines	561,935	June 9	1551	{ 375 376	75	1688
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-registering machine.	561,936	June 9	1554	{ 377 378	75	1689
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-registering machine.	561,937	June 9	1557	378	75	1689
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-folding machine.	567,301	Sept. 8	1008	{ 239 240	76	1482
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-registering machine	567,564	Sept. 8	1445	{ 347 348 539	76	1560
Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Paper-folding machine	564,555	July 21	2294	{ 540 541 542	76	452
Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Folding-machine	564,556	July 21	2306	{ 542 543	76	454
Dexter, Talbot C., Fulton, assignor to Dexter Folder Company, New York, N. Y. Folding-machine	567,300	Sept. 8	1005	{ 238 239	76	1481
Di Vecchio, Stefano, and P. H. Coward, San Francisco, Cal. Wheel	553,796	Jan. 28	2320	551	74	478
Dial, Robert, Chelsea, Ind. Ter. Fence-making machine	573,815	Dec. 22	3091	{ 735 736	77	1918
Dial, Wilbur F. (See Dimond and Dial.)						
Diamond, Henry. (See Berlefein and Diamond.)						
Diamond Match Company. (See Beecher and Wright, assignors.)						
Diamond Match Company. (See Denmead, John W., assignor.)						
Diamond Match Company. (See Loyens and Paulson, assignors.)						
Diamond Match Company. (See Whelan, Henry W., assignor.)						
Diamond, Max, Brooklyn, N. Y. Bicycle riding-habit	564,832	July 28	2766	658	76	556
Diamond Paper Bag Company. (See Baker, Frank L., assignor.)						
Diamond Rubber Company. (See Sherbondy, Joseph, assignor.)						
Diamond Truck and Car Gear Company. (See Gee, Horace L., assignor.)						
Dias, John C. (See Taylor and Dias.)						
Dias, John C., assignor of one-third to J. S. McIntosh, Wilmerding, Pa. Smoke-consuming device	567,964	Sept. 22	2137	515	76	1722
Dick, Albert B., assignor to A. B. Dick Company, Chicago, Ill. Type-writing machine	554,660	Feb. 18	1529	361	74	821
Dick, Albert B., assignor to A. B. Dick Company, Chicago, Ill. Type-writing machine	558,582	Apr. 21	1885	457	75	389
Dick, Albert B., assignor to A. B. Dick Company, Chicago, Ill. Stencil-sheet	539,647	May 5	566	134	75	790
Dick, Albert B., assignor to A. B. Dick Company, Chicago, Ill. Duplicating-stencil	562,590	June 23	2672	647	75	1932
Dick, George A., London, England. Apparatus for treating heated metals under pressure	571,265	Nov. 10	1504	{ 355 356	77	947
Dick, George A., London, England. Apparatus for manufacturing wire, &c., from copper	572,872	Dec. 8	1367	{ 330 331	77	1559
Dick, Joseph, Canton, Ohio. Fodder-cutter	562,512	June 23	2521	{ 612 613	75	1904
Dick, Joseph, Canton, Ohio. Fodder-cutter	562,513	June 23	2525	613	75	1905
Dick, Joseph C. F., Kenwood, Cal. Two-wheeled vehicle	565,201	Aug. 4	467	112	76	703
Dickason, Frank B., Oak Cliff, Tex. Calendar	567,965	Sept. 22	2138	{ 515 516	76	1722
Dickason, Jonathan, Agosta, Ohio. Nut-lock	553,780	Jan. 28	2299	545	74	474
Dickerboom, Frederick, Windom, Minn. Device for attaching harness to vehicle-shafts	572,873	Dec. 8	1369	331	77	1559
Dicke, Theodore. (See Boettner and Dicke.)						
Dicke, William H., and A. H. Gaertner, St. Louis, Mo. Roller-bearing hinge	564,055	July 14	1450	338	76	285
Dickerson, Edward N. (See Carrie, Stanley C. C., assignor.)						
Dickerson, Edward N., et al. (See Schweitzer and Lungwitz, assignors.)						
Dickerson, Edward N., New York, N. Y. Apparatus for producing gas	553,781	Jan. 28	2300	546	74	474
Dickerson, Edward N., New York, N. Y. Process of and apparatus for burning liquefied gas	555,149	Feb. 25	2402	570	74	1002
Dickerson, Edward N., New York, N. Y. Process of and apparatus for producing illuminating-gas	555,212	Feb. 25	2508	592	74	1021
Dickerson, Edward N., New York, N. Y. Process of and apparatus for producing metallic compounds by electricity	557,057	Mar. 21	2807	667	74	1705
Dickerson, Edward N., New York, N. Y. Valve-locking mechanism for gas-generators	560,784	May 26	2661	611	75	1257
Dickerson, Edward N., New York, N. Y. Automatic acetylene-gas apparatus	561,208	June 2	237	57	75	1413
Dickerson, Edward N., New York, N. Y. Producing acetylene gas	561,701	June 9	1149	273	75	1613
Dickerson, Edward N., New York, N. Y. Apparatus for heating thermopiles	563,262	July 7	52	13	76	12
Dickerson, Edward N., New York, N. Y. Acetylene-gas producer	563,457	July 7	373	86	76	72
Dickerson, Edward N., New York, N. Y. Gas-mixing device	564,684	July 28	2526	597	76	514
Dickerson, Edward N., New York, N. Y. Gas-mixer	565,157	Aug. 4	387	90	76	629
Dickerson, Edward N., New York, N. Y. Charging and discharging secondary batteries	565,727	Aug. 11	1434	{ 349 350	76	902
Dickerson, Edward N., New York, N. Y., and J. J. Suckert, Ridgewood, N. J. Pressure-reducing valve	571,346	Nov. 17	1639	389	77	987
Dickerson, Malcolm, Fort Wayne, Ind. Electric conduit and appurtenances	569,618	Oct. 20	1571	369	77	328
Dickerson, Samuel H., and F. S. Gilbert, Cleveland, Ohio. Seal for joining wires or rods	552,990	Jan. 14	929	225	74	188
Dickey, George W., Des Moines, assignor of one-half to C. C. Donnell, Otley, Iowa. Car-coupling	561,572	June 9	920	220	75	1568
Dickey, John S., Claude, Tex. Animal-poke	552,898	Jan. 14	772	187	74	158
Dickey, William T. S., Mineral Bluff, Ga. Poultry-coop	553,902	Feb. 4	180	38	74	538
Dickie, William, Gillespie, Ill. Plow	556,256	Mar. 10	1373	323	74	1403
Dickinson, Albert. (See Timewell, Arthur T., assignor.)						
Dickinson, Charles. (See Amet, Edward H., assignor.)						
Dickinson, Charles, New Britain, Conn. Powder-folding device	563,949	July 14	1249	292	76	247
Dickinson, Charles, New Britain, Conn. Holder for powder-papers	571,041	Nov. 10	1115	261	77	874
Dickinson, Charles W., Belleville, N. J. Rotary or color-printing press	556,740	Mar. 24	2255	527	74	1601
Dickinson, Denison M. (See Vaughn, Stephen K., assignor.)						
Dickinson, Joseph H., Brooklyn, N. Y. Conveying apparatus	564,186	July 21	1629	395	76	343
Dickinson, Joseph H., Trenton, N. J. Aerial tramway	570,386	Oct. 27	2977	{ 705 706	77	601
Dickinson, Joseph H., Trenton, N. J. Aerial tramway	570,387	Oct. 27	2979	706	77	601
Dickinson, Joseph H., assignor to Trenton Iron Company, Trenton, N. J. Aerial tramway	553,577	Jan. 28	1966	466	74	412
Dickinson, Sherman, assignor to Challenge Corn Planter Company, Grand Haven, Mich. Refrigerator	568,312	Sept. 22	2770	667	76	1840

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Dickman, John B. (See Bowen, John A., assignor.)						
Dickson, Archibald A., Toronto, Canada. Reducing metallic sand or pulverized ores.....	569,820	Oct. 20	1944	462	77	394
Dickson, Archibald A., Toronto, Canada. Reducing metallic sand or pulverized ores.....	569,821	Oct. 20	1946	463	77	394
Dickson, Edward, Oak Lake, Canada. Gunpowder.....	567,536	Sept. 8	1399	.....	76	1552
Dickson, George A. (See Boyd, Henry P., assignor.)						
Dickson, James M., Roseneath, Miss. Mechanical motor.....	557,774	Apr. 7	453	107	75	85
Dickson, Jennie, New York, N. Y. Case for toilet articles.....	566,505	Aug. 25	2836	690	76	1203
Dickson, John R., assignor to Carter-Crume Company, Niagara Falls, N. Y. Memorandum-book.....	559,123	Apr. 28	2825	684	75	585
Dickson, Thornley. (See Bourne, Theodore F., assignor.)						
Dickson, William H., Laclede, Mo. Mortar-hoe.....	565,379	Aug. 4	776	184	76	761
Dieck, Henry T., New Orleans, La. Furnace.....	560,978	May 26	2995	689	75	1321
Diehl, Adolph S., assignor to Western Electric Company, Chicago, Ill. Cable-hanger.....	563,263	July 7	52	13	76	12
Diehl, Daniel. (See Diehl, Jacob F., J. F., Jr., and D.)						
Diehl, Jacob F., J. F., Jr., and D., Pittsburg, Pa. Electric-light hanger.....	567,022	Sept. 1	510	121	76	1378
Diehl, John, <i>et al.</i> (See Holmes, Nathan L., assignor.)						
Diehl, Justus, New York, N. Y. Upright piano.....	570,787	Nov. 3	609	153	77	761
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Pad-stitching attachment for sewing-machines.....	564,598	July 28	2392	564	76	489
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Shuttle for sewing-machines.....	573,564	Dec. 29	3196	761	77	1951
Diehl, Philip, and M. Hemleib, Elizabeth, N. J., assignors to Singer Manufacturing Company, of New Jersey. Sewing-machine.....	568,338	Sept. 29	2820	{ 678 679 }	{ 76 76 }	{ 1864 1864 }
Diehl, Philip, and T. Kraemer, Elizabeth, N. J., assignors to Singer Manufacturing Company, of New Jersey. Sewing-machine treadle.....	568,717	Sept. 29	3508	{ 840 841 827 328 }	{ 76 75 }	{ 1992 270 }
Dierdorff, Henry B., Columbus, Ohio, assignor to J. A. Jeffrey. Mining-machine truck.....	558,264	Apr. 14	1339	92	75	756
Dierdorff, Henry B., assignor to J. A. Jeffrey, Columbus, Ohio. Self-lubricating wheel.....	559,573	May 5	378	92	75	756
Dierdorff, Henry B., assignor to J. A. Jeffrey, Columbus, Ohio. Mining-machine truck. (Reissue).....	11,540	May 26	3152	728	75	1351
Dieterich, Carl G., and J. Boulton, Brooklyn, N. Y. Handle-bar and attachment for bicycles.....	555,150	Feb. 25	2403	570	74	1002
Dieterich, Charles G., Brooklyn, N. Y. Bicycle.....	559,368	May 5	31	8	75	686
Dieterichs, Clarissa R. (See Dieterichs, Emil F., assignor.)						
Dieterichs, Emil F., assignor to C. R. Dieterichs, Cleveland, Ohio. Car fender and brake.....	562,288	June 16	2151	523	75	1819
Dietz, Charles, Chicago, Ill. Vehicle-starter.....	572,970	Dec. 15	1559	{ 373 374 }	{ 77 77 }	{ 1613 328 }
Dietz, Conrad, Covington, Ky. Washing-machine.....	569,619	Oct. 20	1572	370	77	328
Dietz, Conrad, West Covington, Ky. Bearing and journal for washing-machines.....	572,745	Dec. 8	1169	{ 280 281 }	{ 77 77 }	{ 1520 532 }
Dietz, Emil, assignor to Fred Dietz Company, Indianapolis, Ind. Corner-iron for trucks.....	564,740	July 28	2626	626	76	532
Dietz, John G., <i>et al.</i> (See Ward, Alexander F., assignor.)						
Dietz, Uriah, assignor of one-half to A. Buzzard, Bangor, Pa. Car-fender.....	555,283	Feb. 25	2641	{ 618 619 }	{ 74 74 }	{ 1047 836 }
Dill-Richard, Theophile, Liestal, Switzerland. Angle attachment for dental handpieces.....	565,533	Aug. 11	1082	260	76	836
Dill, William F., Philadelphia, Pa. Wagon-standard.....	571,514	Nov. 17	1927	460	77	1039
Dillan, Price C., Essex, Iowa. Field or garden implement.....	559,369	May 5	32	8	75	687
Dillaway, Henry G., <i>et al.</i> (See Wiswell, Jacob C., assignor.)						
Dillenbach, Henry F., Pulaski, N. Y. Shears.....	563,458	July 7	374	86	76	72
Dillenburg, Michel, San Francisco, Cal. Trolley-way.....	572,574	Dec. 8	1371	331	77	1560
Dilley, Zena J., and H. J. Hayes, Muir, Mich. Bicycle-support.....	570,464	Nov. 3	39	9	77	646
Dilley, Zena J., and H. J. Hayes, Muir, Mich. Wall attachment for supporting bicycles.....	570,465	Nov. 3	41	10	77	646
Dillingham Manufacturing Company. (See Muselmann, Henry, assignor.)						
Dillingham, Thomas M., New York, N. Y. Bottle.....	557,655	Apr. 7	242	59	75	46
Dillman, Augustus C., Bryan, Ohio. Undertaker's pedestal.....	563,264	July 7	53	13	76	12
Ditman, William C., assignor of one-half to D. S. Beasley, Brooklyn, N. Y. Instrument for removing obstructions from pipes.....	558,549	Apr. 21	1823	444	75	379
Dillon, Benjamin R., Providence, R. I. Bottle.....	571,515	Nov. 17	1928	460	77	1039
Dillon, Peter, assignor of one-half to H. C. King, Lawrence, Mass. Apparatus for recording output of machinery.....	571,110	Nov. 10	1251	291	77	899
Dillon, Thomas L., Nashville, Tenn. Cable ornament.....	569,550	Oct. 13	1426	337	77	285
Dillon, William A., Marlton, Mo. Fence-wiring machine.....	567,585	Sept. 15	1498	359	76	1586
Dils, Joseph M., South Bend, Ind. Show-case.....	569,620	Oct. 20	1573	370	77	328
Dilworth, Emmet S., Peel Tree, W. Va. Extension-table.....	554,361	Feb. 11	1004	{ 232 233 }	{ 74 74 }	{ 706 706 }
Dimick, Augustus D., Wakefield, Mass. Side guard for open cars.....	569,786	Oct. 20	1891	449	77	384
Dimler, William J., and C. O. Reichert, Dayton, Ohio. Grater.....	566,381	Aug. 25	2569	632	76	1157
Dimmick, Alvin T., <i>et al.</i> (See Demorest, Allen T., assignor.)						
Dimmick, Joseph O., and E. K. Woods, assignors to Electro-Magnetic Concentrating Company, Denver, Colo. Ore-concentrator.....	554,914	Feb. 18	1966	{ 463 464 }	{ 74 74 }	{ 905 905 }
Dimmock, William C., Baltimore, Md. Stove.....	557,775	Apr. 7	454	107	75	86
Dimond, George H., and W. F. Dial, assignors to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Seam-trimming mechanism.....	568,896	Oct. 6	308	71	77	59
Dingee, William W., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Band-cutter and feeder.....	558,873	Apr. 21	2381	{ 580 581 620 621 }	{ 75 75 77 77 }	{ 481 481 1187 1187 }
Dingee, William W., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Pneumatic stacker.....	571,898	Nov. 24	2619	621	77	1187
Dinkey, Alva C., Munhall, Pa. Reversing-controller for electric motors.....	563,575	July 7	579	134	76	108
Dinkey, Alva C., Munhall, Pa. Rheostat.....	570,009	Oct. 27	2266	{ 538 539 }	{ 77 77 }	{ 466 466 }
Dinkle, Charles F., Carlisle, Pa. Power-transmitting device.....	573,768	Dec. 22	3018	715	77	1905
Dinsmore, Robert, assignor of one-half to M. Greenstein, Weston, W. Va. Magazine-fire-arm.....	560,348	May 19	1847	{ 421 422 }	{ 75 75 }	{ 1091 1091 }
Dinsmore, Samuel A., Chicago, Ill. Telephone.....	553,452	Jan. 21	1726	411	74	351
Dinsmore, Samuel A., Chicago, Ill. Telephone.....	553,843	Feb. 4	55	11	74	515
Dion, Albertide, and G. T. Bouton, Paris, France. Driving-mechanism for self-moving vehicles.....	562,289	June 16	2153	524	75	1820
Dion, Charles, Paris, France, assignor of one-fourth to O. D. Barrett, Washington, D. C. Device for treating near-sightedness.....	570,279	Oct. 27	2753	655	77	560
Dirksen, William W., assignor of one-half to F. Bauer, Jamestown, N. Y. Head-rest.....	564,874	July 28	2855	684	76	573
Dirroll, Peter, Mishawaka, Ind. Antifriction-roller for wagon-reaches.....	563,576	July 7	580	135	76	109
Disbrow, Levi A., assignor of two-thirds to R. B. Disbrow, Owatonna, and D. W. Payne, Minneapolis, Minn. Combined churn and butter-worker.....	564,978	Aug. 4	33	6, 7	76	623
Disbrow, Reuben B., <i>et al.</i> (See Disbrow, Levi A., assignor.)						
Disbrow, Reuben B., Owatonna, assignor of one-third to D. W. Payne, Minneapolis, Minn. Combined churn and butter-worker.....	564,977	Aug. 4	30	6	76	623

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Disc Churn Company. (See Duncan, John H. H., assignor.)						
Disch, Charles F., New Haven, Conn. Bank	569,860	Oct. 20	2009	479	77	406
Dismukes, William L., Nashville, Tenn. Ball-bearing	555,257	Mar. 10	1375	323	74	1403
Disrud, Gabriel, Forward, Wis. Calf-weaner	572,339	Dec. 1	443	105	77	1363
Diss, Albert B., Brooklyn, N. Y., assignor, by mesne assignments, to Thomas Braid Company, of New York. Braiding-machine	572,357	Dec. 1	477	112	77	1369
Ditmar, Gerhard, Vienna, Austria-Hungary. Annular liquid-combustible burner for incandescent lights	573,578	Dec. 22	2668	633	77	1837
Dittbenner, Hermann G., Minneapolis, Minn. Piston-rod connection for sawmill-carriages	563,265	July 7	54	13, 14	76	12
Dittbenner, Hermann G., assignor to H. H. Smith and A. Richardson, Minneapolis, Minn. Engine for log-moving	553,229	Jan. 21	1347	327 328	74	281
Diven, Samuel L. (See Forrey, George J., assignor.)						
Diver, Edwin, Deerfield, Ohio. Fence-post	559,574	May 5	380	92	75	756
Divine, B. H. (See Divine, Wallace H., assignor.)						
Divine, Wallace H., assignor to B. H. Divine, Utica, N. Y. Buffing-wheel	563,459	July 7	375	86, 87	76	72
Dixon, Alexander H. (See Steele, John C., assignor.)						
Dixon, Ezra. (See Burnham, William J., assignor.)						
Dixon, Henry M., Brooklyn, N. Y. Pencil-sharpener	564,823	July 28	2768	658	76	557
Dixon, James. (See McCormick, John B., Jr., assignor.)						
Dixon, John G., Huddersfield, England. Block-signaling on railways	559,688	May 5	568	134	75	791
Dixon, John G., Huddersfield, England. Fog signaling apparatus for railways	567,380	Sept. 8	1157	277 278	76	1507
Dixon, John H., Marietta, Ohio. Meter	572,414	Dec. 1	57	140	77	1390
Dixon, Patrick, Bloomington, Ill. Flue-cutter	564,056	July 14	1451	338	76	285
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, New York, N. Y. Valve	554,915	Feb. 18	1968	464	74	905
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, New York, N. Y. Lamp	567,304	Sept. 8	1019	244	76	1483
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, of New Jersey. Gas-holder	567,764	Sept. 15	1791	430	76	1643
Dixon, Robert M., East Orange, and E. E. Allbee, Arlington, N. J. Steam-trap	564,979	Aug. 4	36	7	76	623
Dixon, Thomas, McKeesport, Pa. Combined pipe and nut wrench	569,037	Oct. 6	554	128	77	106
Dixon, Thomas B., Henderson, Ky. Register	553,642	Jan. 28	2073	489 490	74	431
Dixon, Thomas B., Henderson, Ky. Polar relay	560,313	May 19	1785	407	75	1080
Dixon, Thomas B., Henderson, Ky. Track instrument	570,700	Nov. 3	525	122	77	736
Dixon, Thomas B., Henderson, Ky. Track instrument	571,472	Nov. 17	1846	440	77	1025
Dixon-Woods Company. (See Lubbers, John H., assignor.)						
Dixon, Hugh. (See Schroeder, Frederick W., assignor.)						
Doane, Francis H., Newton, Mass., assignor to Frank Ridlon Company, Saco, Me. Electric rheostat	558,362	Apr. 14	1493	367	75	300
Dobbin, Joseph L. (See Horton, Charles C., assignor.)						
Dobbins, Edward, Saranac Lake, N. Y. Spring grab-hook	566,447	Aug. 25	2747	666	76	1186
Dobbs, William F., Windham, Ohio. Wire-fence machine	569,487	Oct. 13	1311	309	77	264
Dobkins, John A., assignor of seven-sixteenths to J. R. Morris, Lebanon, Oreg. Fire-escape	560,086	May 12	1359	305	75	952
Doble, William H., Quincy, and G. W. Watson, Boston, Mass., assignors to Electric Scale Company, Kittery, Me. Automatic weighing and package-filling machine	556,259	Mar. 10	1377	324 325	74	1403
Dobrick, August C., assignor to Turner Brass Works, Chicago, Ill. Electric-arc lamp	573,398	Dec. 15	2315	553	77	1754
Dobson, Arthur D., Warrnambool, Victoria. Combined starting, stopping, and reversing gear for hoists, &c.	557,776	Apr. 7	436	107	75	86
Dobyne, James B., et al. (See Gould, Samuel A., assignor.)						
Dobyne, James B., assignor to Landis Wax Thread Sewing Machine Company, St. Louis, Mo. Tension device for sewing-machines	564,557	July 21	2308	543	76	455
Dobyne, James B., assignor to Landis Wax Thread Sewing Machine Company, St. Louis, Mo. Feeding mechanism for sewing-machines	566,286	Aug. 18	2395	587	76	1104
Docharty, Augustus T., et al. (See Grobet, Charles E., assignor.)						
Dockham, Clarissa E., New Brighton, N. Y. Bicycle-skirt	556,281	Mar. 24	2502	590	74	1647
Dockham, Clarissa E., Staten Island, N. Y. Bicycle-skirt	568,339	Sept. 29	2823	679 680	76	1864
Dodd, Ernest J. (See Bowie and Dodd.)						
Dodd, George R., assignor of two-thirds to G. W. Taylor & Co., Belton, and T. M. Glenn, Columbia, S. C. Car-replacer	563,223	June 30	3819	915	75	2172
Dodd, John, et al. (See Saxton, Augustus C., assignor.)						
Dodd, John, Cleveland, Ohio. Gas-meter	573,399	Dec. 15	2316	554	77	1754
Dodd, Silas N., Toledo, Iowa. Calculating device	573,506	Dec. 22	2517	603 604	77	1814
Dodd, T. L. (See Chisolm, William G., assignor.)						
Dodd, William T., Prescott, Wash. Desk	571,652	Nov. 17	2154	517	77	1081
Dodd, Willis G., San Francisco, Cal. Ore-concentrator	556,089	Mar. 10	1072	256 257	74	1348
Doddridge, James M., Milton, Ind. Harvesting-machine	565,883	Aug. 18	1710	419	76	971
Doddridge, John S., et al. (See Vulbois, Herman, assignor.)						
Doddridge, William B., St. Louis, Mo. Splice-joint for railway-rails	560,897	May 26	2872	659	75	1397
Doddridge, William B., St. Louis, Mo. Turn-table	561,974	June 16	1620	394 395	75	1721
Doddridge, William B., St. Louis, Mo. Railway-ditcher	572,85	Dec. 8	1371	332	77	1560
Dodds, Alexander, and C. D. Thomson, Grand Rapids, Mich. Bicycle-saddle	554,337	Feb. 11	965	223	74	698
Dodds, John, et al. (See Anderson, Isaac, assignor.)						
Dodge, Edwin H., assignor to Hartford Typewriter Company, Hartford, Conn. Lever and rod connection	553,515	Jan. 28	1844	438	74	389
Dodge, Horace E. and J. F., Detroit, Mich. Bicycle-bearing	567,851	Sept. 15	1949	467	76	1673
Dodge, Israel A., Brady, Tex. Refrigerating apparatus	559,267	Apr. 28	2135	758	75	640
Dodge, James M. (See Atwood, Leonard, assignor.)						
Dodge, James M., Philadelphia, Pa. Detachable chain-link	564,057	July 14	1452	338	76	285
Dodge, James M., Philadelphia, Pa. Chain for conveyers, &c	565,844	Aug. 11	1627	398 399	76	939
Dodge, James M., assignor to Link-Belt Engineering Company, Philadelphia, Pa. Friction-clutch	554,583	Feb. 11	1382	325	74	779
Dodge, James M., assignor to Link-Belt Engineering Company, Philadelphia, Pa. Conveyor	559,370	May 5	33	8	75	687
Dodge, James M., assignor to Link-Belt Engineering Company, Philadelphia, Pa. Conveyor	559,371	May 5	36	9	75	687
Dodge, James M., assignor to Link-Belt Engineering Company, Philadelphia, Pa. Apparatus for handling coal	564,058	July 14	1453	339	76	285

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Dodge, James M., assignor to Link-Belt Engineering Company, Philadelphia, Pa. Conveyor	565,334	Aug. 4	703	{ 168 169 }	76	746
Dodge, James M., assignor to Link-Belt Engineering Company, Philadelphia, Pa. Conveyor	571,347	Nov. 17	1641	389	77	988
Dodge, James M., Philadelphia, Pa., assignor to Air Conveyor Company, Philadelphia, Pa., and Camden, N. J. Conveyor	557,058	Mar. 24	2808	668	74	1705
Dodge, James M., Philadelphia, Pa., assignor to Air Conveyor Company, Philadelphia, Pa., and Camden, N. J. Conveyor	557,059	Mar. 24	2809	668	74	1706
Dodge, James M., Philadelphia, Pa., assignor to Air Conveyor Company, Philadelphia, Pa., and Camden, N. J. Conveyor. (Reissue)	11,548	June 23	3009	726	75	1997
Dodge, James M., Philadelphia, Pa., assignor to Air Conveyor Company, Philadelphia, Pa., and Camden, N. J. Conveyor. (Reissue)	11,549	June 23	3010	726	75	1998
Dodge, Jasper L., assignor of one-half to P. Trainor, Providence, R. I. Railway-switch	558,603	Apr. 21	1922	467	75	396
Dodge, John F. (See Dodge, Horace E. and J. F.)						
Dodge, John S., Mayersville, Miss., assignor of one-half to W. H. Higgs, Woodlands, W. Va. Automatic cylinder-cock or globe-valve	560,695	May 26	2506	575	75	1228
Dodge, John S., Mayersville, Miss., assignor of one-half to W. H. Higgs, Woodlands, W. Va. Automatic stop-valve	564,008	July 14	1355	{ 315 316 }	76	267
Dodge, Philip T., Washington, D. C. Linotype-machine	565,440	Aug. 11	880	208	76	800
Dodge, Philip T., New York, N. Y. Spacing device for linotype-machines	565,441	Aug. 11	882	209	76	800
Dodge, Philip T., Washington, D. C., assignor to Mergenthaler Linotype Company, New York, N. Y. Type-justifying mechanism	565,439	Aug. 11	878	208	76	799
Dods, John C., assignor to J. Green, St. Louis, Mo. Gas-generator	571,558	Nov. 17	2005	{ 476 477 }	77	1052
Dodson, Harry E., assignor to P. P. Mast & Company, Springfield, Ohio. Seeding-machine	558,363	Apr. 14	1496	{ 367 368 }	75	300
Dodson, John B., St. Louis, Mo. Bottle-capping machine	557,561	Apr. 7	47	13	75	11
Dodson, Willard R., Jermyn, Pa. Signal-lantern	556,259	Mar. 10	1388	326	74	1497
Doe, Walter S., assignor of one-half to H. Thompson, Brooklyn, N. Y. Battery	554,247	Feb. 11	808	184	74	669
Doebler, Charles F., Hartford, Conn. Knob attachment	565,108	Aug. 4	271	65	76	667
Doebler, Charles F., Hartford, Conn. Knob attachment	565,109	Aug. 4	275	65	76	668
Doeg, George C. (See Myrick and Doeg.)						
Doelger, Theodore E., New York, N. Y. Combination work-bench and tool-box	564,782	July 28	2703	{ 642 643 }	76	545
Doerfel, Max, Klingenthal, Germany. Harmonica	566,448	Aug. 25	2748	666	76	1186
Doering, Charles, Library, Pa. Vehicle brake-lever	571,854	Nov. 24	2530	599	77	1170
Doherty, Anthony, Jr., Baton Rouge, La. Lamp-chimney protector	571,131	Nov. 10	1294	300	77	906
Dohnal, Ignaz, Chicago, Ill. Shears	573,075	Dec. 15	1738	416	77	1648
Doherty, Thomas, Sarnia, Canada. Metal founding	565,262	Aug. 4	598	141	76	725
Dohrman, Horatio G., Steubenville, Ohio. Air-heater	553,750	Jan. 28	2357	{ 534 535 }	74	465
Dokkenwadel, Friedrich G., Coshocton, Ohio, assignor of one-half to M. Pieron, New York, N. Y. Bowling-alley	563,362	July 7	220	49	76	45
Dolan, Dennis W., Hartford, Conn. Rotary scratch-brush	557,562	Apr. 7	49	14	75	11
Dolan, John J., Boston, Mass. Car-sign	559,516	May 5	285	67	75	737
Dold, Frederick W., Kansas City, Mo. Air-cooling apparatus	556,811	Mar. 24	2385	560	74	1624
Dole, Charles P., assignor of one-half to C. R. Heneage, Duluth, Minn. Coal scoop or bucket	556,310	Mar. 10	1506	{ 349 350 }	74	1428
Dolge, Rudolf. (See Gery and Dolge.)						
Dolge, Rudolf. (See Roth, Dolge, and Melcher.)						
Dolge, Rudolf, New York, assignor to C. F. Zimmermann Company, Dolgeville, N. Y. Harp	574,307	Dec. 29	4041	960	77	2105
Dolge, Rudolf, New York, assignor to C. F. Zimmermann Company, Dolgeville, N. Y. Harp	574,308	Dec. 29	4042	960	77	2105
Dolge, Rudolf, New York, assignor to C. F. Zimmermann Company, Dolgeville, N. Y. Harp	574,309	Dec. 29	4044	961	77	2105
Dolge & Son, Alfred. (See Rosenfeld, Hans B. K., assignor.)						
Dollison, Jasper, and S. Rimer, Salesville, Ohio. Boot	570,201	Oct. 27	2609	620	77	533
Dolph, Alexander M., J. H. Slack, Cincinnati, Ohio, and W. A. Saunders, Covington, Ky., assignors to American Laundry Machinery Company, Cincinnati, Ohio. Mangle	554,584	Feb. 11	1383	{ 325 326 }	74	779
Dolph, Luther A., Bennington, Vt. Carpet-sweeper	555,935	Mar. 10	771	{ 185 186 }	74	1294
Dolph, Luther A., North Bennington, Vt. Carpet-sweeper. (Reissue)	11,541	May 26	3154	729	75	1351
Dolphin, Byron J. (See Hokanson and Dolphin.)						
Dolphin, Matthew J., assignor to International Postal Supply Company of New York, Brooklyn, N. Y. Register for letter-marking machines	554,248	Feb. 11	809	{ 184 185 }	74	669
Dolphin, Matthew J., assignor to International Postal Supply Company of New York, Brooklyn, N. Y. Marker for postmarking and stamp-canceling machines	561,573	June 9	921	220	75	1569
Dolsen, Ninian H., Hessel, Mich. Wind-wheel	555,806	Mar. 3	527	128	74	1226
Dombrowsky, Stephan, Roslyn, N. Y. Scraper and grader	559,936	May 12	1080	240	75	898
Domestroid Company. (See Ballantine, Alexander T., assignor.)						
Domleo, John B., and G. W. Woodworth, Monmouth, Ill. Horse-detacher	566,972	Sept. 1	422	99	76	1361
Donahoe, John F., Paola, Kans. Combined gas-stove and grate	567,226	Sept. 8	857	{ 204 205 }	76	1455
Donahoo, John C. (See Donahoo, Patrick M., assignor.)						
Donahoo, Patrick M., Platteville, assignor of one-third to J. C. Donahoo, Cuba City, Wis. Horse-cleaner	573,579	Dec. 22	2670	633	77	1838
Donahoo, Peter B., San Francisco, Cal. Car-fender	564,599	July 28	2394	564	76	469
Donahue, John C., Warren, Pa. Car-coupling	562,810	June 30	3057	739	75	2023
Donahue, Thomas, Hampshire, assignor, by mesne assignments, to A. J. Warner, Chicago, Ill. Lock-case	552,868	Jan. 7	689	167	74	130
Donahue, Thomas, Hampshire, assignor, by mesne assignments, to A. J. Warner, Chicago, Ill. Key	553,578	Jan. 28	1967	466	74	412
Donahue, Thomas, Hampshire, assignor, by mesne assignments, to A. J. Warner, Chicago, Ill. Latch-guide	553,782	Jan. 28	2302	546	74	475
Donahue, William J., and W. B. Hausman, Philadelphia, Pa. Trolley-finder	571,994	Nov. 24	2782	656	77	1218
Donald, William, Saltcoats, assignor of one-half to R. Main, Stevenston, Scotland. Making chlorine	570,624	Nov. 3	383		77	709
Donaldson Brothers. (See Schwacofer, Charles E., assignor.)						
Donaldson Brothers. (See Spiegle, Charles, Jr., assignor.)						
Donaldson, Charles A., Minneapolis, Minn. Lock-hinge	563,142	June 30	3678	850	75	2145
Donaldson, Erasmus H., Cleghorn, Iowa. Heat-regulating drum	566,149	Aug. 18	2187	532	76	1064
Donaldson, Hay F., London, England. Lift or hoist for warehouses	570,913	Nov. 10	899	209	77	814
Donaldson, Joab R., Oliphant Furnace, Pa. Fireplace	561,871	June 9	1450	350	75	1668

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Donally, Melvin E., Brooklyn, N. Y. Bottle-washing machine.....	555,598	Mar. 3	194	45, 46	74	1165
Donally, Melvin E., New York, N. Y. Bottling apparatus.....	569,180	Oct. 13	793	186	77	167
Donato, Cornelius, <i>et al.</i> (See Donato, John B. G., assignor.)						
Donato, John B. G., assignor of one-third to T. S. Fontenot, Opelousas, La. Game-trap.....	560,846	May 26	2773	636	75	1279
Donato, John B. G., assignor of one-tenth to C. Donato and T. S. Fontenot, Opelousas, La. Liquid-supply system.....	570,844	Nov. 3	774	177	77	783
				337		
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Donbavand, Joseph E., Millville, N. J. Block-signal system.....	569,551	Oct. 13	1427		77	286
Doney, Alfred. (See Halsey and Doney.)						
Donges, George. (See Eurich and Donges.)						
Donkin, Reginald. (See Cutler and Donkin.)						
Donlevy, Thomas A. (See Bolte, Donlevy, and Connell.)						
Donlon, Thomas H., Oneida, N. Y. Jack.....	561,209	June 2	238	57	75	1413
Donnell, C. C. (See Dickey, George W., assignor.)						
Donnell, Charles R., <i>et al.</i> (See Carr, Warren H., assignor.)						
Donnell, James W., <i>et al.</i> (See Coleman, Clyde, assignor.)						
Donnell, John G. (See Hartman and Donnell.)						
Donnell, John W. (See Friede, Samuel M., assignor.)						
Donnellan, James S., assignor of two-thirds to O. B. Ridgeway and G. V. Shaw, Dubuque, Iowa. Skipping-rope.....	554,992	Feb. 18	2103	500	74	931
Donnellon, Alice, Brooklyn, N. Y. Hook and eye for garments.....	572,528	Dec. 8	771	183	77	1440
Donnelly, John, Montreal, Canada. Apparatus for starting engines.....	557,259	Mar. 31	3176	762	74	1793
Donnelly, Joseph C., Philadelphia, Pa. Match-making machine.....	553,609	Jan. 28	2017	477	74	421
				322		
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Donnelly, Joseph C., Philadelphia, Pa. Match-making machine.....	565,674	Aug. 11	1332		76	884
Donnelly, Mark, Charlotte, N. C. Envelop.....	563,847	July 14	1055	249	76	212
Donnelly, Samuel A., assignor of one-half to P. Deward, Chicago, Ill. Bicycle.....	553,453	Jan. 21	1727	412	74	351
Donnelly, Thomas P., Bridgeport, Conn. Hair-clipper.....	560,260	May 19	1694	386	75	1065
Donohoo, Michael J. (See Daniels, Philo E., assignor.)						
Donohue, William T., New York, N. Y. Car-fender.....	560,482	May 19	2085	475	75	1134
Donovan, James. (See Stevens and Donovan.)						
Donovan, Robert F., Chicago, Ill. Chameleon whirlingig.....	561,379	June 2	560	141	75	1476
Donovan, William F., New York, N. Y., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Master-key pin-lock.....	567,305	Sept. 8	1020	244	76	1483
Dooley, Charles E. (See Claypool and Dooley.)						
Doolittle, Elbridge C., assignor to A. R. Justice, Philadelphia, Pa. Mechanism for converting continuous rotary into alternating rotary motion.....	562,124	June 16	1883	437	75	1769
Doolittle, Irvin P., Redlands, Cal. Pipe-coupling.....	558,364	Apr. 14	1498	368	75	301
Doolittle, John E., Naples, N. Y. Flower-stand.....	554,661	Feb. 18	1530	362	74	822
Doolittle, John H., Greystone, Conn. Chain-machine.....	568,749	Oct. 6	59	15	77	14
Doolittle, Sidney B. (See Dart, Daniel W., assignor.)						
Doolittle, William W., assignor to R. T. Crane, Chicago, Ill. Elevator-controlling valve.....	563,266	July 7	56	14	76	12
Doolittle, William W., assignor to R. T. Crane, Chicago, Ill. Elevator-stop.....	563,267	July 7	57	14, 15	76	13
Doolittle, William W., assignor to Crane Company, Chicago, Ill. Pipe-sleeve.....	560,847	May 26	2774	636	75	1280
				217		
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Doolittle, William W., assignor to Crane Company, Chicago, Ill. Facing-machine.....	572,599	Dec. 8	901		77	1469
Doran, James C. (See Robinson and Doran.)						
Doran, Joseph M., Ogden, Utah. Train-pipe.....	571,755	Nov. 24	2358	563	77	1138
Doray, Joseph P., Worcester, Mass. Window-frame.....	570,701	Nov. 3	528	122	77	736
Dorchester, Edward G., Geneva, N. Y. Timing instrument for vehicles.....	561,702	June 9	1150	273	75	1613
				274		
Dore, Evariste, assignor of one-half to A. Chouinard, Minneapolis, Minn. Sled.....	569,621	Oct. 20	1574	370	77	328
Dorley, Joseph. (See Feltz, William B., assignor.)						
Dormael, Gaston de S. de, Brussels, Belgium. Electrical accumulator.....	561,872	June 9	1451	350	75	1669
Dorman, George E., assignor to J. E. Dorman, Chicago, Ill. Dynamo-electric machine.....	567,586	Sept. 15	1499	359	76	1586
Dorman, George E., assignor to J. E. Dorman, Chicago, Ill. Dynamo-electric machine.....	570,914	Nov. 10	900	209	77	834
Dorman, John E. (See Dorman, George E., assignor.)						
Dorman, William H., Stafford, assignor to C. F. Gardner, London, England. Sole-sewing machine.....	556,177	Mar. 10	1233	288	74	1377
				289		
Dormire, Philip. (See Bidelman, Thomas, assignor.)						
Dormitzer, Anna, New York, N. Y. Napkin-holder.....	559,517	May 5	286	68	75	737
Dorn, Benjamin O., South Bend, Ind. Game apparatus.....	558,265	Apr. 14	1340	328	75	270
Dorn, Christian, and N. Reinstanne, Philadelphia, Pa. Bottle-stopper and bottle.....	569,181	Oct. 13	796	186	77	168
Dorn, Clara M., Chautauque, N. Y. Appliance for coupling cars.....	572,675	Dec. 8	1031	250	77	1495
Dornan, Thomas B., Philadelphia, Pa. Carpet fabric.....	574,023	Dec. 29	3492	834	77	2005
Dorner & Dutton Manufacturing Company. (See Sill, Richard V., assignor.)						
Dorney, George S. and R. J., Findlay, Ohio. Wire-stretcher.....	553,338	Jan. 21	1547	369	74	317
Dorney, Robert J. (See Dorney, George S. and R. J.)						
Dornfeld, John F., Chicago, Ill. Conveyer and distributor.....	565,068	Aug. 4	179	43	76	650
Dorrance, Charles J., Chicago, Ill. Furnace.....	559,887	May 12	989	220	75	883
Dorsey, Farmer, Belmont, Ill. Engine.....	571,348	Nov. 17	1642	390	77	988
				391		
Dorticos, Juan P., assignor to A. Davis Sons & Co., Cincinnati, Ohio. Cigar-box.....	561,574	June 9	925	221	75	1570
Dosch, Albert W. (See Dosch, John M. and A. W.)						
Dosch, John M. and A. W., Kittanning, Pa. Hose-nozzle.....	553,454	Jan. 21	1728	412	74	352
Doscher, Lena, Charleston, S. C. Bottle.....	565,534	Aug. 11	1084	260	76	836
Doster, Albert C., Brouard, Mich. Advertising device.....	553,555	Jan. 28	1917	453	74	403
Doster, Charles E., and W. N. Fisher, Converse, Ind. Automatic feeding apparatus.....	561,500	June 2	778	190	75	1517
Doty, Richard W. (See Doty, Robert E. and R. W.)						
Doty, Robert E. and R. W., Vergennes, Ill. Baling-press.....	553,396	Jan. 21	1641	392	74	335
				393		
Doty, William W., assignor of two-thirds to C. J. Bickmann, J. C. and C. C. Grauten, New York, N. Y. Railway-switch.....	556,260	Mar. 10	1390	326	74	1407
Dotzeuroth, Henry, Jr., Bellevue, Pa. Automatic valve for bottles.....	558,785	Apr. 21	2236	540	75	453
Double Hollow Rim Company. (See Dring, John, assignor.)						
Doud, John A. (See Babbitt, Wood, and Doud.)						
Dougan, A. P. (See Dougan, Kennedy, assignor.)						
Dougan, Kennedy, Missoula, Mont., assignor to A. P. Dougan, Salem, Mo. Governor for feed-regulators.....	558,900	Apr. 21	2426	591	75	490

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Dougherty, Andrew. (See Foster, Robert F., assignor.)						
Dougherty, Charles W., <i>et al.</i> (See Seymour, Herbert P., assignor.)						
Dougherty, Francis, <i>et al.</i> (See McClellan, Oscar D., assignor.)						
Dougherty, Parke C. (See Worrall, Clarence A., assignor.)						
Dougherty, William H., Brooklyn, N. Y. Folding card-holder.....	561,380	June 2	561	141	75	1478
Doughty, Henry J., Providence, R. I. Pneumatic tire.....	558,162	Apr. 14	1153	284	75	237
Doughty, Henry J., Providence, R. I. Method of and apparatus for making tire-covers for velocipedes.....	560,123	May 12	1431	322	75	967
Doughty, Henry J., Providence, R. I. Method of and apparatus for making pneumatic tires.....	567,457	Sept. 8	1282	310 311	76	530
Doughty, Somers L., <i>et al.</i> (See Richman, Wilbert, assignor.)						
Doughty, William H., Brooklyn, N. Y. Crib attachment for beds.....	560,979	May 26	2996	690	75	1321
Douglas, Anna M., Leamington, England. Bedstead for invalids.....	572,529	Dec. 8	771	183 184	77	1440
Douglas, Charles H., Chicago, Ill. Saw-sharpener.....	555,567	Mar. 3	140	33	74	1156
Douglas, Edward, San Francisco, Cal. Flushing water-closet bowls.....	562,951	June 30	3338	802	75	2031
Douglas, Frank, Chicago, Ill. Bicycle-saddle.....	554,662	Feb. 18	1531	362	74	832
Douglas, Frank, Chicago, Ill. Pneumatic bicycle-tire.....	559,937	May 12	1081	240	75	898
Douglas, Heman F., <i>et al.</i> (See Slyder, William J., assignor.)						
Douglas, James, New York, N. Y. Extracting copper from ores.....	563,143	June 30	3679		75	2146
Douglas, James, New York, N. Y. Extracting copper from ores.....	563,144	June 30	36-0	881	75	2146
Douglas, John, London, England. Fluid-pressure engine.....	565,845	Aug. 11	1629	399	76	939
Douglass, John P. (See Young and Douglass.)						
Douglass, John. See Smith, John P., assignor.)						
Douglass, Lloyd J., <i>et al.</i> (See Lindley, Zachary M., assignor.)						
Douglash, Stephen A., Mount Hermon, Mass. Paper-file.....	554,362	Feb. 11	1006	233	74	706
Douthett, William C., Pittsburg, Pa. Means for transmitting motion.....	570,871	Nov. 3	828	192	77	793
Dover Stamping Company. (See Whitney, Edward H., assignor.)						
Doverspike, Isaac C. (See Welsh, William C., assignor.)						
Dow, Albert N., Exeter, N. H. Ruling-pen and holder.....	569,038	Oct. 6	556	128	77	106
Dow, Alexander, New York, N. Y., assignor to Dow Composing Machine Company, of West Virginia. Type-distributor.....	572,050	Nov. 24	2870	675 676 677 678 679	77	1235
Dow, Alonzo, Wooster, Ohio. Electrogalvanic belt.....	561,975	June 16	1622	395	75	1722
Dow Composing Machine Company. (See Dow, Alexander, assignor.)						
Dow, George E., San Francisco, Cal. Single-acting crank-pump.....	566,895	Sept. 1	269	62, 63	76	1333
Dow, Herbert H., Midland, Mich., assignor to Midland Chemical Company, Cleveland, Ohio. Vacuum-pan.....	554,916	Feb. 18	1969	464 465	74	906
Dow, James M., Ogdensburg, N. Y. Photographic posing-chair.....	566,382	Aug. 25	2590	632 633 693	76	1157
Dow, Josiah, Philadelphia, Pa. Speed-governor for motors.....	555,438	Feb. 25	2919	694	74	1098
Dow, Willard E., Braintree, Mass. Game apparatus.....	560,197	May 19	1568	355	75	1043
Dowd, Frank, Cleveland, Ohio. Safety apparatus for street or other railways.....	572,971	Dec. 15	1560	374 375	77	1613
Dowd, John P. (See Kurz, August W., assignor.)						
Dowd, Thomas, Omaha, Nebr. Sanding-box.....	558,047	Apr. 14	974	239	75	201
Dowden, Charles H., Newark, N. J. Circuit-closer for burglar-alarms.....	569,661	Oct. 20	2010	479	77	406
Dowell, Arthur E., Washington, D. C. Printing-press.....	562,713	June 23	2879	699	75	1971
Dowell, Arthur E., Washington, D. C. Printing-press.....	562,714	June 23	2881	699 700	75	1972
Dowell, Arthur E., Washington, D. C. Printing-press.....	562,715	June 23	2884	700	75	1972
Dowling, Patrick J., assignor of one-half to A. O. Shepardson, Waterbury, Conn. Apparatus for operating trolley-arms.....	562,591	June 23	2674	647	75	1933
Down, Arthur H., New Haven, Conn. Fountain-pen.....	556,623	Mar. 17	2065	483	74	1547
Down, Evan R., Gillingham, England. Apparatus for curing meat.....	564,059	July 14	1455	340 341	76	295
Downes, Charles. (See King, Downes, and Waddington.)						
Downes, Louis W., assignor of one-half to W. C. Woodward, Providence, R. I. Fusible cut-out.....	561,159	June 2	148	39	75	1395
Downes, Louis W., assignor of one-half to W. C. Woodward, Providence, R. I. Cut-out for electric circuits.....	569,373	Oct. 13	1134	270	77	233
Downes, Thomas P., <i>et al.</i> (See Nye, Frederick W., assignor.)						
Downey, Charles F. (See Downey, Harry E. and C. F.)						
Downey, Edward J., Guelph, Canada. Clothes-drier.....	561,210	June 2	239	57	75	1413
Downey, Harry E. and C. F., Scotland, Pa. Wrench.....	566,299	Aug. 25	2420	594	76	1126
Downey, William, Worcester, Mass. Apparatus for tapping pipes or mains.....	572,786	Dec. 8	1238	299	77	1532
Downey, William F., Washington, D. C. Carriage. (Reissue.)	11,567	Sept. 8	1466	351	76	1564
Downing, Frederick B. (See Germann and Downing.)						
Downing, Wellington, Erie, Pa. Paper-folding machine.....	553,111	Jan. 14	1145	278	74	229
Downs, Lewis A., Chicago, Ill. Corset.....	572,787	Dec. 8	1240	299	77	1533
Downs, William, New York, and A. H. Blackburn, Matteawan, N. Y. Feed-water heater.....	572,247	Dec. 1	268	65	77	1329
Dows, Justin N. (See Bailey, George F., assignor.)						
Dowse, William B. H., Newlon, Mass., assignor to Consolidated Fastener Company, Portland, Me. Button.....	563,460	July 7	376	87	76	73
Doxford, Charles D., Sunderland, England. Apparatus for bending or setting metal plates.....	565,535	Aug. 11	1085	260 261	76	837
Doyen, Eugène L., Rheims, France. Flexible shaft.....	564,875	July 28	2856	684	76	573
Doyle, Adolphus M., Leoti, Kans. Weather-strip and door-stop.....	558,786	Apr. 21	2237	540	75	453
Doyle, George A., Gandeeville, W. Va. Counter attachment for suspending barrels.....	567,891	Sept. 15	2005	481	76	1625
Doyle, James E., assignor of one-half to C. S. Britton, Cleveland, Ohio. Printing-press.....	563,754	July 14	878	209	76	181
Doyle, James J., assignor of one-half to T. F. Maney, Albany, N. Y. Razor-strop.....	561,858	June 2	307	78	75	1428
Doyle, James M. (See Fulson and Doyle.)						
Doyle, James P., assignor of one-fourth to E. W. Wunch, Buffalo, N. Y. Electric gas-igniter.....	556,138	Mar. 10	1161	273	74	1364
Doyle, James T., Skaneateles Falls, N. Y. Picker-check for looms.....	553,516	Jan. 28	1847	438	74	389
Doyle, W. J. (See Murphy, Robert J., assignor.)						
Doyle, William J., Merrickville, Canada. Stone-lifting machine.....	566,745	Sept. 1	21	5, 6	76	1284
Dr. Fort's Electrolysis Sanatorium. (See Fort, Joseph A., assignor.)						
Dräger, Bernhard. (See Dräger, Heinrich and B.)						
Dräger, Heinrich and B., assignors, by mesne assignments, to Deutsche Bierfass-Automat-Gesellschaft, Lubeck, Germany. Receptacle for preserving, transporting, and selling beer, &c.....	572,248	Dec. 1	269	65	77	1330
Drake, Charles C., Trenton, N. J. Automatic circuit breaker and closer.....	569,960	Oct. 20	2184	518	77	438

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Drake, Flemon, San Francisco, Cal. Combined telephone and district alarm system	565,202	Aug. 4	469	112	76	703
Drake, George W. (See Bardons, Oliver, and Drake.)						
Drake, Newman E., Jersey City, N. J., assignor to James D. Mason Company of Baltimore City, of Maryland. Dough-twisting machine.....	559,323	Apr. 28	3228	780	75	657
Drane, Henry J., et al. (See Moritz, Charles, assignor.)						
Draper, Charles T., Cleveland, Ohio. Can	564,060	July 14	1457	341	76	286
Draper, Eben S. and G. O., assignors to G. Draper & Sons, Hopedale, Mass. Loom.....	574,142	Dec. 29	3710	884	77	2044
Draper, George A., Hopedale, Mass., assignor to Northrop Loom Company, Saco, Me. Loom.....	573,264	Dec. 15	2070	496	77	1708
Draper, George O. (See Draper, Eben S. and G. O.)						
Draper, George O., assignor to G. Draper & Sons, Hopedale, Mass. Shuttle for looms	568,718	Sept. 29	3509	841	76	1993
Draper, George O., Hopedale, Mass., assignor to Northrop Loom Company, Hopedale, Mass., and Saco, Me. Loom-heddle	569,149	Oct. 6	746	174	77	141
Draper & Sons, George. (See Bracken, Howard W., assignor.)						
Draper & Sons, George. (See Bourne, Stephen N., assignor.)						
Draper & Sons, George. (See Draper, Eben S. and G. O., assignors.)						
Draper & Sons, George. (See Draper, George O., assignor.)						
Draper & Sons, George. (See Draper and Northrop, assignors.)						
Draper & Sons, George. (See Duffy, Joseph, assignor.)						
Draper & Sons, George. (See Gregson and Murray, assignors.)						
Draper & Sons, George. (See Knight, George W., assignor.)						
Draper & Sons, George. (See Miller, Joseph A., assignor.)						
Draper & Sons, George. (See Mooney, Timothy, assignor.)						
Draper & Sons, George. (See Moriarty, Michael, Jr., assignor.)						
Draper & Sons, George. (See Northrop, James H., assignor.)						
Draper & Sons, George. (See Nutting, Charles E., assignor.)						
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Draper & Sons, George. (See Smith, Oberlin, assignor.)						
Draper & Sons, George. (See Sullivan, Michael E., assignor.)						
Draper & Sons, George, et al. (See Culver, Frederick S., assignor.)						
Draper & Sons, George, et al. (See Montgomery, John R., assignor.)						
Draper, William F. (See O'Sullivan, John E., assignor.)						
Draper, William F., and J. H. Northrop, assignors to G. Draper & Sons, Hopedale, Mass. Self-threading loom-shuttle	569,862	Oct. 20	2011	479	77	407
Draper, William F., and J. H. Northrop, Hopedale, Mass., assignors to Northrop Loom Company, Hopedale, Mass., and Saco, Me. Loom	572,746	Dec. 8	1171	281	77	1520
Draube, Eva, New Orleans, La. Ring for curtain, mosquito-bar, and other poles	568,897	Oct. 6	309	71	77	60
Draver, Emil R. (See Draver, Henry C., assignor.)						
Draver, Emil R., Alliance, Nebr. Grain-scouring machine	560,612	May 19	2300	527	75	1173
Draver, Emil R., Alliance, Nebr. Sifter or chop-grader	562,592	June 23	2680	648	75	1934
Draver, Emil R., Alliance, Nebr. Sifting apparatus. (Reissue)	11,555	July 7	823	196	76	153
Draver, Emil R., assignor to F. N. Draver, Alliance, Nebr. Conveyer	566,066	Aug. 18	2042	497	76	1038
Draver, Florence N. (See Draver, Emil R., assignor.)						
Draver, Henry C., assignor to E. R. Draver, Alliance, Nebr. Sifter or chop-grader	560,575	May 19	2238	513	75	1162
Drawbaugh, Daniel, Eberly's Mill, Pa. Substance for telephone-electrodes	567,966	Sept. 22	2142	.....	76	1723
Drawbaugh, Daniel, Eberly's Mill, Pa. Substance for telephone-electrodes	568,526	Sept. 29	3164	.....	76	1926
Drawbaugh, Daniel, Eberly's Mill, Pa. Substance for telephone-electrodes	570,845	Nov. 3	777	.....	77	783
Drees, William, et al. (See Simmons, William F., assignor.)						
Dreisbach, Amos M., assignor to L. Corelle, Cabel, L. and G. Frometter, and J. Kaseman, Shamokin, Pa. Railway-switch	559,288	Apr. 28	3137	758	75	640
Dresdner, Isidor, Brooklyn, N. Y. Fur-plucking machine	568,750	Oct. 6	68	15	77	16
Dresher, Abraham K., Worcester, Pa. Electric switch	557,777	Apr. 7	457	108	75	86
Dressel, Charles H., New York, N. Y. Car-signaling device	570,156	Oct. 27	2527	599	77	517
Dresser, Solomon R., Bradford, Pa. Repair device for stopping leaky joints	571,220	Nov. 10	1424	332	77	931
Dressler, Charles E., New York, N. Y. Apparatus for generating electricity for lighting, or heating railway-cars	568,193	Sept. 22	2569	{ 618 619 }	{ 76 76 }	1801
Drever, James. (See Thomson and Drever.)						
Drew, Charles L. (See Carter and Drew.)						
Drew, John H. (See Carter and Drew.)						
Drew, Walter J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Display-stand	569,961	Oct. 20	2185	518	77	439
Drewsen, Viggo, Sandy Hill, N. Y. Apparatus for separating gases	565,263	Aug. 4	598	141	76	725
Dreyfus, Bernhard, New York, N. Y. Garter	559,970	May 12	1137	254	75	913
Dreyfus, Edward, et al. (See Williams, Alfred G., assignor.)						
Dreyfus, Leon. (See Loesser, Richard and E., assignors.)						
Dreyfus, Leon, et al. (See Loesser, Richard and E., assignors.)						
Driffill, Frederick, Shatter, Tex. Metallic tie for sacks	567,336	Sept. 8	1076	257	76	1494
Driggs, George W., assignor of one-half to M. Beal, Elyria, Ohio. Valve	561,096	June 2	33	9	75	1373
Dring, John, assignor to Double Hollow Rim Company, Limited, London, England. Manufacture of wheel-rims	557,196	Mar. 31	3065	735	74	1774
Driver, Elias K., Lufkin, Tex. Fire-extinguishing apparatus	557,060	Mar. 24	2809	668	74	1706
Driver, George E. (See Williams, William M., assignor.)						
Dröbisch, Judson H., Decatur, Ill. Bonus-determining device	573,076	Dec. 15	1739	416	77	1649
Drolet, Mederic, D. and U. Marceau, St. Anne, Ill. Hay-loader	557,978	Apr. 7	804	192	75	152
Dromgold, Walker A. (See Hench and Dromgold.)						
Drosch, Charles, et al. (See Warn, Edward T., assignor.)						
Drouin, Cyrille. (See Lewis, Gustave A., assignor.)						
Drown, Otis E., Lincoln, R. I. Machine for drying wadding	554,585	Feb. 11	1386	326	74	779
Druckhammer, Frederick, St. Louis, Mo. Curtain-pole ring	552,607	Jan. 7	180	50	74	36
Drucklieb, Charles A., et al. (See Pattison, Richard, assignor.)						
Drueding, Leonard H. A., New Orleans, La. Device for lighting gas-burners	559,888	May 12	992	221	75	883
Drueding, Leonard H. A., New Orleans, La. Device for lighting gas-burners	566,746	Sept. 1	22	6	76	1284
Drum, William R., Winfield, Kans. Tool for packing piston-rods	563,577	July 7	581	135	76	109
Drumm, Charles A., A. Kraus, and H. Goeljen, Manitowoc, Wis. Stovepipe	559,442	May 5	168	37	75	714
Drummond, Michael J. (See Mern, John P., assignor.)						
Drummond Tobacco Company. (See Pittman, William D., assignor.)						
Drummond, Ward B., Minneapolis, Minn. Folding fire-hose trestle	569,622	Oct. 20	1575	370	77	329
Drury, Alfred C., and G. E. Sims, Canton, N. Y. Bicycle-saddle	569,326	Oct. 13	1057	251	77	218
Drury, Francis E., and W. C. Skinner, assignors to Cleveland Foundry Company, Cleveland, Ohio. Sad-iron	562,889	June 30	3215	777	75	2053
Drury, Frederic F., Gouverneur, N. Y. Bicycle-saddle	566,669	Aug. 25	3069	749	76	1248
Drury, William H. (See Cupers, Nicolas, assignor.) (Reissue.)						
Dryer, George W., assignor to Bushnell Manufacturing Company, Easton, Pa. Reversible seat	564,244	July 21	1774	415	76	360

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Drysdale, Hugh, Cleveland, Ohio. Animal-clipping machine	558,640	Apr. 21	1976	{ 479 480	{ 75	406
Drysdale, Hugh, Cleveland, Ohio. Hair-clipper	574,243	Dec. 29	3939	937	77	2085
Drysdale, John M., trustee. (See Sibley, James T., assignor.)						
Drysdale, William A., Overbrook, Pa. Armature-jack	573,323	Dec. 15	2192	524	77	1731
Du Bois, Dallas, Montclair, N. J. Puzzle	569,263	Oct. 20	2013	480	77	407
Du Bois, Edwin, Ralston, Pa. Apparatus for tanning	573,077	Dec. 15	1740	417	77	1649
Du Bois, Josiah S., Camden, N. J. Preservation of vegetable substances	553,976	Feb. 4	315	89	74	562
Du Brul, Napoleon, Cincinnati, Ohio. Tobacco-cutting machine	560,483	May 19	2088	{ 476 477	{ 75	1135
Du Brul, Napoleon, Cincinnati, Ohio. Cigar-bunching machine	560,576	May 19	2240	513	75	1162
Du Brul, Napoleon, Cincinnati, Ohio. Cigar-mold	560,577	May 19	2242	514	75	1162
Du Perow, Mortimer, Washington, D. C. Electric signaling apparatus	563,025	June 30	3463	832	75	2105
Du Pont, Francis G., Wilmington, Del. Machine for shaping smokeless powder	569,669	Oct. 20	1659	{ 392 393	{ 77	344
Du Pont, Thomas C., Johnstown, Pa. Car-truck	567,864	Sept. 15	1966	471	76	1677
Du Pont, Thomas C., Johnstown, Pa. Rail-joint	567,998	Sept. 22	2210	533	76	1734
Du Quesnay, Charles A. L., New Orleans, La. Car-fender	553,186	Jan. 14	1273	308	74	252
Du Val, Sydney S., Richmond, Va. Permutation-padlock	558,367	Apr. 14	1502	369	75	301
Du Vivier, Jules H., deceased; H. M. Turk, New York, N. Y., ancillary administrator, assignor to Société Anonyme de la Soie Francaise, Paris, France. Composition of matter for manufacturing artificial silk	563,214	June 30	3801	.....	75	2169
Dubian, Paul, Marseilles, France. Steam-generator. (Reissue)	11,558	July 21	2354	554	76	463
Dubois, Otis E., Fall River, Mass. Rope-clamp	558,048	Apr. 14	975	239	75	201
Dubois, Otis E., Fall River, Mass. Rope-clamp	558,049	Apr. 14	976	239	75	201
Dubois, Otis E., Fall River, Mass. Rope-handling device	561,976	June 16	1625	396	75	1722
Dubois, Samuel H., Fall River, Mass. Ring-spinning frame	570,986	Nov. 10	1017	237	77	856
Dubreuil, Arthur, Montreal, Canada. Driving mechanism for bicycles	555,684	Mar. 3	343	79	74	1191
Duchscherer, George. (See Lobe, Bart, assignor.)						
Duck, Ida J., Salem, Ohio. Medicine-glass	566,067	Aug. 18	2043	498	76	1038
Duckworth, Caleb, Colne, England. Fruit-cleaning machine	573,769	Dec. 22	3019	715	77	1905
Duckworth, William E. (See Hitchon and Duckworth.)						
Dudley, George W., assignor to Numerograph Manufacturing Company, Charleston, W. Va. Combined adding and printing machine	554,993	Feb. 18	2104	{ 501 502 521	{ 74	931
Dudley, George W., assignor to Numerograph Manufacturing Company, Charleston, W. Va. Adding-machine	555,038	Feb. 18	2188	{ 522 523 523	{ 74	944
Dudley, George W., assignor to Numerograph Manufacturing Company, Charleston, W. Va. Combined adding and printing machine	555,039	Feb. 18	2193	{ 524 525	{ 74	945
Dudley, Guilford H., Medford, Mass. Umbrella	567,082	Sept. 1	621	144	76	1400
Dudley, Jacob R. (See Smith, Franklin D., assignor.)						
Dudley, James, Killbuck, Ohio. Grab for hoisting-chains	569,448	Oct. 13	1256	295	77	253
Dudley, John W., assignor of one-half to W. L. Dudley, Chicago, Ill. Axle-brake	561,873	June 9	1452	350	75	1669
Dudley, W. W., et al. (See Cottrell, George R., assignor.)						
Dudley, Walter J., Somerville, Mass. Gas-burner	568,130	Sept. 22	2464	592	76	1781
Dudley, William L. (See Dudley, John W., assignor.)						
Duell, Charles H. (See Terry, Eugene, assignor.)						
Duerr, Eugene, Buffalo, N. Y. Propulsion of marine vessels	568,604	Sept. 29	3308	793	76	1953
Duerst, Casper. (See Staub and Duerst.)						
Dues, Joseph J., Chickasaw, Ohio. Well-drilling machine	566,383	Aug. 25	2594	633	76	1158
Duff, Alfred B. (See Duff, Edward J. and A. B.)						
Duff, Alfred B., trustee. (See Duff, Edward J., assignor.) (Reissue.)						
Duff, Edward J., Glasgow, Scotland, assignor to A. B. Duff, trustee, Allegheny, Pa. Gas-producer. (Reissue)	11,523	Jan. 28	2373	565	74	487
Duff, Edward J., Glengarriff, near Liverpool, England, and A. B. Duff, Pittsburg, Pa. Boiler-furnace	573,265	Dec. 15	2071	496	77	1709
Duffek, Arthur. (See Merrel and Duffek.)						
Duffield, Charles H., Philadelphia, Pa. Sirup-fountain cock	552,518	Jan. 7	27	8, 9	74	8
Duffield, Charles H., Philadelphia, Pa. Sirup-fountain cock	552,632	Jan. 7	219	61	74	43
Duffield, Charles H., Philadelphia, Pa. Tilting appliance for jars of soda-fountains	573,453	Dec. 22	2461	{ 583 584	{ 77	1798
Duffield, William, and W. R. Taylor, London, England. Mill for crushing and grinding ..	563,145	June 30	3681	{ 881 882	{ 75	2146
Duffus, William. (See Omick, William K., assignor.)						
Duffy, Charles B., New York, N. Y. Safety attachment for gas-cocks	564,980	Aug. 4	37	8	76	624
Duffy, Clarence O., Owensborough, Ky. Impression adjustment for printing-presses ..	567,892	Sept. 15	2006	481	76	1625
Duffy, Joseph, Paterson, N. J., assignor to G. Draper & Sons, Hopedale, Mass. Spindle supporting and driving device	566,847	Sept. 1	191	43	76	1319
Duffy, Peter, New York, N. Y. Piano attachment	564,476	July 21	2167	507	76	430
Dugan, Daniel A., Brooklyn, N. Y. Support for gill-bars	560,696	May 26	2508	576	75	1223
Dugan, William A., Lansingburg, and C. H. Bailey, assignors to Fuller & Warren Company, Troy, N. Y. Damper	564,061	July 14	1457	341	76	286
Duggan, John A. (See Christiansen, Burnham, and Duggan.)						
Duggan, Thomas J., Milwaukee, Wis. Attaching cards to cars, &c	558,365	Apr. 14	1499	368	75	301
Duhay, William H., New York, N. Y. Safety rope-clamp	559,443	May 5	169	37	75	714
Duis, Albert, Streator, Ill. Windmill	553,230	Jan. 21	1349	328	74	282
Duisburger Eisen und Stahlwerke. (See Bicheroux, Toussaint, assignor.)						
Duke, Alexander, Brooklyn, N. Y. Strainer for discharge-spouts for washbasins	572,788	Dec. 8	1240	300	77	1533
Duke, James C., et al. (See Stewart, John A., assignor.)						
Duke, John F., London, England. Manufacture of self-igniting gas mediums	554,249	Feb. 11	813	185	74	670
Dukehart, Thomas M., et al. (See Hall, William H., assignor.)						
Dumas, Melbert, Ripon, Wis. Bedstead	570,788	Nov. 3	670	154	77	781
Dumbauld, Frederick H., McCune, Kans. Wire-and-picket-fence machine	557,778	Apr. 7	459	108	75	86
Dumble, Edwin T., Austin, Tex. Hardening bituminous substances	565,675	Aug. 11	1342	.....	76	286
Dummer, Edward, Auburndale, Mass. Paper-feeding machine	566,670	Aug. 25	3070	{ 749 750	{ 76	1249
Dummer, Edward, Newton, Mass. Sheet separating and feeding machine	566,671	Aug. 25	3074	750	76	1249
Dummer, Edward, Newton, Mass. assignor to Dummer Paper Feeder Company, Portland, Me. Machine for separating and feeding sheets of paper	557,656	Apr. 7	243	60	75	46
Dummer Paper Feeder Company. (See Burgess, Sidney W., assignor.)						
Dummer Paper Feeder Company. (See Dummer, Edward, assignor.)						
Dummer, Samuel R., Flushing, N. Y. Juice-extractor for lemons, &c	562,125	June 16	1884	457	75	1769

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Dumonlin, Emilien. (See Perreux-Lloyd, Marcel, assignor.)						
Dumville, Joseph, Jr., and C. Holly, Lockport, N. Y.; said Holly assignor to said Dumville. Plaiting-machine	556,495	Mar. 17	1854	{ 432 433 }	74	1509
Dun, Robert G., et al. (See McKechnie, Archibald E., assignor.)						
Dunaway, Oscar E., and D. N. Jones, Hardaway, Ala. Spike-extractor and railway-tie lifter	569,552	Oct. 13	1437	339	77	287
Dunbar, Alexander, Liverpool, England. Apparatus for closing staves	571,516	Nov. 17	1929	460	77	1040
Dunbar Brothers. (See Alpress, George T., assignor.)						
Dunbar, Clement A. (See Gailley, John K., assignor.)						
Dunbar, Clement A., et al. (See Pendry, William A., assignor.)						
Dunbar, Franklin A., et al. (See Wheeler, Albert H., assignor.)						
Dunbar, Henry D., Hartland, Vt., assignor of one-half to O. P. Dunbar, Norwalk, Ohio. Compound engine	565,335	Aug. 4	705	169	76	746
Dunbar, Oliver P. (See Dunbar, Henry D., assignor.)						
Duncan, Cicero D., New Berne, N. C. Bottle	566,565	Aug. 25	2923	713	76	1220
Duncan & Co., J. (See Werner, Paul F., assignor.)						
Duncan, James, Adelaide, South Australia. Fore-carriage	553,112	Jan. 14	1146	278	74	229
Duncan, John C., and L. H. Smith, Killbuck, Ohio. Sash or door holder	567,458	Sept. 8	1284	311	76	1531
Duncan, John H. H., assignor to Disc Churn Company, Limited, London, England. Apparatus for manufacturing butter	556,339	Mar. 17	1560	365	74	1453
Duncan, John L., et al. (See Markley, John A., assignor.)						
Duncan, John W., Adrian, Mo. Attachment for window-shades	563,658	July 7	699	165	76	132
Duncan, Joseph S., Sioux City, Iowa, assignor to Addressograph Company, Chicago, Ill. Addressing-machine	558,936	Apr. 28	2498	{ 606 607 }	75	519
Duncan, Nancy P., Pittsburg, Pa. Casing or shield for pots or kettles	571,829	Nov. 24	2483	589	77	1162
Duncan, Robert, San Francisco, Cal. Insulator-hanger	573,966	Dec. 29	3396	814	77	1998
Duncan, Thomas, Fort Wayne, Ind. Meter for alternating electric currents	560,087	May 12	1363	366	75	953
Duncan, Thomas, Fort Wayne, Ind. Electrical-energy indicator	561,977	June 16	1626	{ 396 397 }	75	1732
Duncan, Thomas, Fort Wayne, Ind. Wattmeter	573,078	Dec. 15	1741	{ 417 418 }	77	1649
Duncan, Thomas, Fort Wayne, Ind. Meter for measuring electric currents	573,079	Dec. 15	1747	{ 418 419 }	77	1650
Duncan, Thomas, Fort Wayne, Ind. Electric meter	573,080	Dec. 15	1750	{ 419 421 }	77	1651
Duncan, William E., Southington, Conn. Meat-cutter	554,663	Feb. 18	1532	362	74	822
Duncan's Sons & Co., George. (See Miller, John E., assignor.)						
Dundee, Robert H., and F. G. Jones, Cornwall, England. Machine for crushing or pulverizing ores or other substances	566,672	Aug. 25	3077	751	76	1250
Dunderdale, Cleaveland F., Chicago, Ill., assignor to Automatic Long Distance Telephone Company of Chicago, Ills., of Illinois. Adjusting attachment for telephone signal-bells	553,977	Feb. 4	317	70	74	563
Dunderdale, Cleaveland F., Chicago, Ill., assignor to Automatic Long Distance Telephone Company, of Illinois. Telephone	556,496	Mar. 17	1859	433	74	1510
Dunham, Charles L., assignor of one-half to C. C. Stover, Centre View, Ohio. Sucker-rod wrench	563,848	July 14	1057	249	76	213
Dunham, Fredrick E. (See Kelsey and Dunham.)						
Dunham, John E. (See Coit, George H., assignor.)						
Dunham, Joseph S., Camden, N. J. Scrubber	562,072	June 16	1809	436	75	1754
Dunham, Ralph E., Warthen, Ga. Pea-planter	572,876	Dec. 8	1373	333	77	1560
Dunham, Robert B., et al. (See Tylee, Felix, assignor.)						
Dunham, Samuel E. (See Lyon, Dunham, and Sproul.)						
Dunilac, Frederic A. D. de, Paris, France, assignor to V. A. C. Noël, Chicago, Ill. Hot-air bath	558,677	Apr. 21	2053	495	75	419
Dunlap, Charles A. (See Gilmore and Dunlap.)						
Dunlap, Charles A., assignor of one-half to R. J. Gilmore, Providence, R. I. Fountain	556,090	Mar. 10	1074	257	74	1348
Dunlap, James, Philadelphia, Pa. Machine for printing and finishing pile fabrics	563,024	June 30	3461	{ 831 832 }	75	2105
Dunlap, Joseph I., Wadesborough, N. C. Cotton-chopper	559,938	May 12	1082	{ 240 241 }	75	898
Dunlap, Joseph I., Wadesborough, N. C. Ventilator for railway-cars	572,877	Dec. 8	1374	333	77	1560
Dunlap, Thomas, Toledo, Ohio. Oar	560,980	May 26	2997	690	75	1321
Dunlop, Henry W. D., Lucan, assignor to Dunlop's Patent Truck Company, Limited, Dublin, Ireland. Car or carriage	569,094	Oct. 6	650	150	77	124
Dunlop, John B., Sr., and John B., Jr., Dublin, Ireland. Sprocket-chain	552,899	Jan. 14	773	187	74	158
Dunlop, Ker D. (See Smith and Scott, assignors.)						
Dunlop, Peter, London, England. Condenser	560,198	May 19	1570	{ 355 356 }	75	1044
Dunlop's Patent Truck Company. (See Dunlop, Henry W. D., assignor.)						
Dunmore, Lewis N., Douglass, Kans. Flue and smoke-stack protector	572,415	Dec. 1	588	140	77	1390
Dunn, Ambrose C., New York, N. Y., assignor to Lowry Manufacturing Company, of New Jersey. Telemeter	559,689	May 5	571	135	75	791
Dunn, Andrew S., Wilkensburg, Pa. Non-refillable bottle	565,846	Aug. 11	1632	400	76	939
Dunn, Ballard S., Brooklyn, N. Y. Air and gas mixing machine	553,517	Jan. 28	1848	{ 438 439 }	74	390
Dunn, Ballard S., Brooklyn, N. Y. Burner	555,308	Feb. 25	2687	628	74	1055
Dunn, Benjamin F., and J. C. Bronaugh, Kansas City, Mo. Theatrical structure	573,141	Dec. 15	1859	{ 447 448 }	77	1671
Dunn, Beverly W., U. S. Army. Chronometric apparatus	572,699	Dec. 8	1077	262	77	1503
Dunn, David M., Abingdon, Va. Telegraph-sounder	568,527	Sept. 29	3165	761	76	1926
Dunn, David W., Wrentham, Mass. Automatic circuit-controller for electric pumps	567,023	Sept. 1	511	121	76	1378
Dunn, Dennis, Mahanoy City, Pa. Fluid-pressure brake	570,915	Nov. 10	902	210	77	835
Dunn, Dennis, Mahanoy City, assignor of one-half to J. E. Reyburn, Philadelphia, Pa. Fluid-pressure brake	564,981	Aug. 4	38	8	76	624
Dunn, Dennis, Mahanoy City, assignor of one-half to J. E. Reyburn, Philadelphia, Pa. Air-brake	567,024	Sept. 1	512	121	76	1379
Dunn, Frank K., Chicago, Ill. Velocipede steering-head	564,741	July 28	2627	626	76	532
Dunn, Frank K., Chicago, Ill. Fishing-rod	564,742	July 28	2629	626	76	532
Dunn, James H., assignor to H. Mandelbaum, New York, N. Y. Cigarette-machine	565,967	Aug. 18	1882	458	76	1006
Dunn, John, assignor of one-half to E. Smith, Cleveland, Ohio. Furnace	561,097	June 2	34	9, 10	75	1374
Dunn, Peter S., Branford, Conn. Sash-fastener	558,366	Apr. 14	1500	369	75	301
Dunn, Robert A., McKeesport, Pa. Folding stretcher	558,550	Apr. 21	1824	444	75	379
Dunn, Robert P., assignor of one-half to N. K. Fairbank Company, St. Louis, Mo. Soap-slabbing machine	564,507	July 21	2210	{ 518 519 }	76	438

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Dunn, Seely. (See Williams, Edwin C., assignor.)						
Dunn, Seth, assignor of two-thirds to U. G. and W. S. Merrill, Monticello, Utah. Amalgamator	555,762	Mar. 3	462	110	74	1213
Dunn, Wallace F., La Porte, Ind., assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Billiard-table cushion	562,514	June 23	2526	613	75	1906
Dunning, Augustus W., West Orange, N. J., assignor to Oneita Knitting Mills, Utica, N. Y. Tights for bicyclists, &c.	557,563	Apr. 7	50	14	75	11
Dunning, Robert, Buffalo, N. Y. Draft-gear for street-cars	566,566	Aug. 25	2924	713 714	76	1220
Dunning, Robert, Buffalo, N. Y. Pilot for cars	572,652	Dec. 8	990	238 239	77	1486
Dunphy, James A., Groton, Mass., assignor to Chase Lasting Machine Company, Portland, Me., and Boston, Mass. Last-clasp for lasting-machines	569,182	Oct. 13	798	187	77	168
Dunshee, Carlos E., assignor of one-half to W. C. Streabell, Chicago, Ill. Newspaper-holder	569,553	Oct. 13	1439	339	77	237
Duntley, William O., St. Louis, Mo. Insulating-joint	553,844	Feb. 4	57	12	74	515
Dunton, Emily M. (See Boynton, William H., assignor.)						
Dunton, Emily M. (See Dunton, Frederick W., assignor.)						
Dunton, Frederick W., assignor to E. M. Dunton, Hollis, N. Y. Railway-car	562,218	June 16	2037	493	75	1798
Dunton, Frederick W., assignor to E. M. Dunton, Hollis, N. Y. Railway-car	562,290	June 16	2154	524	75	1820
Dunton, Lyman J., et al. (See Gilpin, Albert D., assignor.)						
Dunwald, Peter, Rio, N. Y. Car-fender	559,269	Apr. 23	3139	759	75	640
Dupes, George, South Knoxville, assignor of one-third to T. F. Adams, Knoxville, Tenn. Rotary cutter for planing-machines	553,280	Jan. 21	1453	349	74	300
Duplex Printing Press Company. (See Bechman, Henry F., assignor.)						
Duplex Weaving Appliance Company. (See Simpson, William, assignor.)						
Dupmeyer, Guillaume, Antwerp, Belgium. Furnace-grate	571,111	Nov. 10	1255	291	77	899
Dupont, Adolphe F. E., Paris, France. Hollow or solid metal bar, wire, tube, &c.	560,484	May 19	2090	478	75	1135
Duppler, Anton, Jersey City, N. J., assignor to Electric Selector and Signal Company, of West Virginia. Electrical selecting instrument	566,896	Sept. 1	272	63	76	1334
Dupuis, Edward P., Halle-on-Salle, Germany. Apparatus for automatically delivering cards indicating time of delivery	566,449	Aug. 25	2749	667	76	1186
Durand, C. W. (See De Renner, Jared R., assignor.)						
Durand, John E., Jackson, assignor to J. L. Hubbard, Saginaw, Mich. Dish-cleaner	563,914	July 14	1187	279	76	237
Durand, Louis, New York, N. Y. Dough-kneading machine	562,952	June 30	3339	802 803	75	2081
Durand Manufacturing Company. (See Blackford, Atwell J., assignor.) (Reissue.)						
Durant, Edward J., Pasadena, Cal. Filter	560,261	May 19	1696	386	75	1066
Durant, Fayette B., et al. (See Gibbons, John, assignor.)						
Durant, Frederick C., New York, N. Y., assignor to A. H. Lea, Philadelphia, Pa. Cutting-punch for bicyclists' use	555,234	Feb. 25	2545	599	74	1028
Durant, Frederick C., New York, N. Y., assignor to A. H. Lea, Philadelphia, Pa. Foot-rest and clamp for bicycles	567,967	Sept. 22	2143	516 458	76	1723
Durant, George F., W. W. Dean, St. Louis, Mo., and W. A. Childs, New York, N. Y., assignors to Bell Telephone Company of Missouri, St. Louis, Mo. Telephone system	565,968	Aug. 18	1885	459 460	76	1007
Durbrow, George W., Salton, Cal. Deep-well filter-casing	560,399	May 19	1940	443	75	1108
Duffee, Edgar G. (See Cleveland, George A., assignor.)						
Durio, Jacques, Turin, Italy, assignor to J. F. Plummer and G. K. McLeod, trustees. Tanning hides	562,781	June 23	2996		75	1995
Durkee, George B., assignor to Lyon & Healy, Chicago, Ill. Violin-tuning pin	554,057	Feb. 4	461	103	74	589
Durkee, George B., assignor to Lyon & Healy, Chicago, Ill. Autoharp	559,124	Apr. 28	2826	684	75	585
Durlach, Isaac, et al. (See Fischer, Adolph, assignor.)						
Durlach, Sarah, et al. (See Fischer, Adolph, assignor.)						
Durnell, Harold G., Bolivar, N. Y. Tool for oil-wells	565,442	Aug. 11	883	209	76	800
Durphy, Charles L., et al. (See Durphy, William T. A., assignor.)						
Durphy, John B. L., et al. (See Durphy, William T. A., assignor.)						
Durphy, William T. A., assignor to himself, J. B. L. and C. L. Durphy, St. Louis, Mo. Adjustable curtain-fixture	562,380	June 23	2315	562	75	1865
Dürr, Ludwig, Bremen, Germany. Petroleum-vapor burner with overheater	568,842	Oct. 6	213	50	77	42
Durrin, Warren A., Woodville, Wis. Oil-can	556,741	Mar. 24	2257	528	74	1601
Durst, William. (See Mersereau, William T., assignor.)						
Duryea, James F., Springfield, Mass. Engine or motor	557,496	Mar. 31	3591	860 861	74	1873
Duryea, James F., assignor to Duryea Motor Wagon Company, Springfield, Mass. Motor-vehicle	572,051	Nov. 24	2880	679 680	77	1237
Duryea Motor Wagon Company. (See Duryea, James F., assignor.)						
Duryea, Walter E. (See Hoffman, John J., assignor.)						
Düsedau, Wilhelm, Trenton, N. J. Cable-hoist	566,848	Sept. 1	193	43, 44	76	1319
Düsedau, Wilhelm, Trenton, N. J. Cable hoisting and conveying apparatus	566,849	Sept. 1	194	44, 45	76	1320
Dusenbury, Caleb C., New York, N. Y. Galvanic-battery jar	557,779	Apr. 7	460	109	75	87
Dusenbury, Philip S., Oakland, Cal. Crease-retaining device for hats	566,267	Aug. 18	2366	579	76	1099
Dustin, Allen F., Hillsborough Bridge, N. H. Door-handle	560,697	May 26	2509	576	75	1228
Dustin, Leander, assignor to E. R. Andrews and A. L. Lehnkering, Rochester, N. Y. Magazine-camera	571,995	Nov. 24	2783	656 657	77	1218
Dutcher, T. Henry. (See Flint, Robert S., assignor.)						
Dutcher Temple Company. (See Armstead, Michael J., assignor.)						
Dutcher Temple Company. (See Stimpson, Edward S., assignor.)						
Dutcher Temple Company. (See Stimpson, Edward S. and W. L., assignors.)						
Dutcher Temple Company. (See Stimpson, Wallace I., assignor.)						
Dutcher Temple Company. (See Stimpson, Wallace I. and E. S., assignors.)						
Dutro, Oliver T., Buffalo, N. Y. Stone-dressing machine	570,466	Nov. 3	43	10, 11	77	646
Dutro, Oliver T., Buffalo, assignor of one-half to W. H. Moran and F. S. Tearney, Niagara Falls, N. Y. Water-closet seat	557,780	Apr. 7	461	109	75	87
Dutt, Frederick A. (See Bond, William L., assignor.)						
Dutton, Chauncey N., Pittsburg, Pa. Balance-lock for waterways	557,564	Apr. 7	51	14 15 16 17	75	11
Dutton, Chauncey N., New York, N. Y. Lock-gate for canal-locks, &c.	557,565	Apr. 7	64	17	75	13
Dutton, Chauncey N., New York, N. Y. Pneumatic balance-lock	557,566	Apr. 7	67	17 18 19	75	14
Duval, Charles L., New York, N. Y. Device for opening wrappers	568,340	Sept. 29	2824	680	76	1865
Duvinage, Louis, Brooklyn, N. Y. Metallic block for roof or other trusses	553,903	Feb. 4	182	38	74	539

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Dwyer, Edward L., Cambridge, Mass. Street-car sign	570,747	Nov. 3	607	139	77	750
Dwyer, James H., Harrisonburg, Va. Apparatus for working butter	557,781	Apr. 7	462	109	75	87
Dwyer, Michael J. (See Wagner and Dwyer.)						
Dwyer, Richard. (See Creveling, William C., assignor.)						
Dyar, Charles H., Ontario, Cal. Step-ladder	562,716	June 23	2887	700	75	1973
Dyar, Perlle A. (See Fellows, Charles F., assignor.)						
Dydrick, Frank. (See Kranzer, Anton, assignor.)						
Dye, Ford S. (See Bay, Foreacre, and Dye.)						
Dye, John F., Newport, Ky. Combined thill-support and antirattler	553,057	Jan. 14	1038	253	74	208
Dye, Perry D., and W. Holmes, Parkersburg, W. Va. Pipe and nut wrench	554,994	Feb. 18	2113	502	74	932
Dyer, Charles E., assignor to C. I. Parker, Toronto, Canada. Saddle	560,698	May 26	2510	576	75	1228
Dyer, Clarence E. (See Rings, Matthew, assignor.)						
Dyer, Isaac T., assignor of one-half to C. J. Stromberg, Chicago, Ill. Gravity-power pump	555,724	Mar. 3	406	94	74	1202
Dyer, Isaac T., assignor of one-half to C. J. Stromberg, Chicago, Ill. Rotary fluid-com-	559,324	Apr. 28	3229	780	75	658
pressing engine				781		
Dyer, Isaac T., assignor of one-half to R. O. Burke, Chicago, Ill. Machine for generating	566,897	Sept. 1	276	63, 64	76	1335
fluid-pressure power						
Dyer, Isaac T., assignor to Dyer Power Company, Chicago, Ill. Locomotive-engine	568,019	Sept. 22	2243	541	76	1741
				542		
Dyer, Isaac T., assignor to Dyer Power Company, Chicago, Ill. Wheel-pump	573,580	Dec. 22	2670	633	77	1838
Dyer, Isaac T., assignor to Dyer Power Company, Chicago, Ill. Electric engine	573,581	Dec. 22	2672	634	77	1838
Dyer, Isaac T., assignor of two-thirds to R. O. Burke and J. R. Coffey, Chicago, Ill. Ele-						
vator attachment	559,444	May 5	170	37, 38	75	714
Dyer, Lucius, Millbridge, Me. Wire-solder machine	553,187	Jan. 14	1274	308	74	253
Dyer Power Company. (See Dyer, Isaac T., assignor.)						
Dyer, Richard N., trustee. (See Blumer and Schlagenhauser, assignors.)						
Dyer, Richard N., East Orange, N. J., assignor to General Electric Company, of New York.	567,306	Sept. 8	1021	244	76	1483
Electric-railway trolley				245		
Dyer, Richard N., East Orange, N. J., assignor to General Electric Company, of New York.						
Electric-railway trolley	567,307	Sept. 8	1022	245	76	1484
Dyer, William E., and F. Soley, Philadelphia, Pa.; said Soley assignor to said Dyer. Pad-	572,653	Dec. 8	992	239	77	1487
lock	565,611	Aug. 11	1220	294	76	861
Dyson, Thomas, et al. (See Perkins, Clarence E., assignor.)						
Dyett, Francis J., Ilion, N. Y. Electric gate-operating mechanism	557,497	Mar. 31	3597	861	74	1874
				862		
E. & B. Holmes Machinery Company. (See Holmes, Edward and B., assignors.)						
E. C. Atkins & Company. (See Atkins and Coyle, assignors.)						
E. C. Atkins & Company. (See Barbee, Harry C., assignor.)						
E. C. Atkins & Company. (See Dahl and Poindexter, assignors.)						
E. C. Atkins & Company. (See Emerson, James E., assignor.)						
E. C. Atkins & Company. (See Meyer, George, assignor.)						
E. C. Atkins & Company. (See Viewegh, Ernest, assignor.)						
E. C. Atkins & Company. (See Wallace, Thomas L., assignor.)						
E. C. Atkins & Company. (See Wallace and Coyle, assignors.)						
E. C. Atkins & Company. (See Wallace and Reed, assignors.)						
E. C. Cook & Brother. (See Frazier, Horace B., assignor.)						
E. & C. Electric Company. (See Ahm, Charles E. F., assignor.)						
E. D. Jones & Sons Company. (See McSweeney, James, assignor.)						
E. H. Jacobs Manufacturing Company. (See Livsey, Charles P., assignor.)						
E. H. Merrill Company. (See Butler, Frederick W., assignor.)						
E. H. Stafford Company. (See Field, Frank, assignor.)						
E. & H. T. Anthony & Company. (See Roche, Thomas C., assignor.)						
E. & H. T. Anthony & Company. (See Trueman, William, assignor.)						
E. Ingraham Company. (See Wright, William H., assignor.)						
E. J. Brooks & Company. (See Brooks, Edward J., assignor.)						
E. J. Manville Machine Company. (See Campbell, Andrew C., assignor.)						
E. Jenckes Manufacturing Company. (See Rowe, James E., assignor.)						
E. T. Burrowes Company. (See Merrill, Frank W., assignor.)						
E. & T. Fairbanks & Company. (See Heyer, Charles A., assignor.)						
E. W. Bliss Company. (See Leavitt, Frank M., assignor.)						
E. W. Ross Company. (See Woodman, John J., assignor.)						
Eadie, George, Lock Haven, Pa. Toy	561,978	June 16	1631	397	75	1723
Eads, Oliver T., Harvey, Ill. Badge	569,039	Oct. 6	557	128	77	106
Eager, Frank L., Meriden, Conn. Automatic regulator for continuously-fed extension lamp-						
fixtures	553,397	Jan. 21	1643	393	74	335
Eager, George R., Newton, and J. A. White, assignors to F. S. Webster Company, Boston,	561,874	June 9	1454	350	75	1669
Mass. Box-cover						
Eagle Cotton Gin Company. (See Gammons, Ferdinand C., assignor.)						
Eagle Lock Company. (See Murphy, James, assignor.)						
Eagle Lock Company. (See Roche, James, assignor.)						
Eagle Pencil Company. (See Boman, Claes W., assignor.)						
Eagle Pencil Company. (See Fischer, Frederick J. W., assignor.)						
Eagle Pencil Company. (See Kaiser, August, assignor.)						
Eakright, William O., Butler, Ind., and D. I. Green, Frontier, Mich. Wire-fence lock	564,187	July 21	1690	395	76	343
Earl, David, assignor of one-half to S. S. Savage, Ashland, Ky. Garden implement	553,485	Jan. 21	1787	426	74	362
Earl, John H., Somerville, Mass. Exhaust-nozzle	564,477	July 21	2168	507	76	430
Earl, Lewis F., assignor to Simons, Bro. & Co., Philadelphia, Pa. Cuff-buttoner	560,199	May 19	1573	356	75	1044
Earle, Edward J. V. (See Reid and Earle.)						
Earle, Morris, et al. (See Brown, Nathaniel H., assignor.)						
Early, Matthias. (See Horn and Early.)						
Eastabrooks, John H., Hinckley, Ill. Log-sawing machine	562,717	June 23	2888	701	75	1973
Easter, Clay H., Hazlewood, assignor of one-third to J. P. Caldwell, Pittsburg, Pa. Renew-						
able check-valve	556,962	Mar. 24	2632	619	74	1671
Easterbrook, Thomas S., St. Louis, Mo. Combination freight-car	563,026	June 30	3464	832	75	2106
				833		
Eastern Electric Company. (See Hogan, John J., assignor.)						
Eastern Paper Bag Company. (See Liddell, William, assignor.)						
Eastern Telephone Switchboard Company. (See Gould, Claude C., assignor.)						
Eastman, Albert G., Boston, Mass. Fireproof floor or roof	564,783	July 28	2704	643	76	545
Eastman, George, Rochester, N. Y. Photographic-film holder	563,915	July 14	1188	280	76	237
Eastman, Joseph, assignor to Light Fireproofing Company, Chicago, Ill. Ceiling and floor	558,266	Apr. 14	1341	328	75	271
construction						

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Eastman Kodak Company. (See Brownell, Frank A., assignor.)						
Eastman, William E., Laconia, N. H. Thermometer attachment for railway-cars	553,231	Jan. 21	1351	328	74	282
Easton, Frederic W., Pawtucket, R. I. Bunch-arresting yarn-guide for spooling-machines.	563,755	July 14	880	209	76	181
Easton, James W., Brooklyn, N. Y., assignor to L. H. Slaght, Waterford, Canada, and S. G. Metcalf, New York, N. Y. Method of and apparatus for regulating dynamo-electric generators or motors	570,663	Nov. 3	457	108	77	724
Eastwood, James N., assignor to A. E. Stilwell, Kansas City, Mo. Chemical fire-extinguisher	554,363	Feb. 11	1006	233	74	706
Eastwood Wire Manufacturing Company. (See Frisbie, Henry R., assignor.)						
Easty, Charles B., Glenville, Ohio. Trace-fastener	556,742	Mar. 24	2259	528	74	1002
Eaton, Arthur W. (See Hamm and Eaton.)						
Eaton, Cole & Burnham Company. (See Laws, Albert D., assignor.)						
Eaton, Howard F., Quincy, assignor to C. H. Phinney, Boston, Mass. Automatic time-recording instrument	559,518	May 5	286	68	75	737
Eaton, Joseph S. (See Meats and Eaton.)						
Eaton, Shepherd F., Milford, Mass. Shoe-form	560,200	May 19	1574	356	75	1044
Eaton, Solomon, <i>et al.</i> (See Wiswell, Jacob C., assignor.)						
Eaton, Thomas W., Chicago, Ill. Hydraulic elevator	561,047	May 26	3108	716 717	75	1342
Eaton, William S., Sag Harbor, N. Y. Engraving	573,967	Dec. 29	3397	814	77	1988
Eaves, William, Sheffield, England. Steam-generator	559,519	May 5	289	68, 69	75	738
Eba, Bernhardt, Warren, Pa. Kiln for revivifying bone-black	557,498	Mar. 31	3601	862 863	74	1875
Ebbersten, Alfred N., Orange, Mass. Boot-tree	556,497	Mar. 17	1861	434	74	1510
Ebbs, Hermann, assignor to Fried. Krupp Grusonwerk, Magdeburg, Germany. Igniting device for gas, petroleum, or other engines	566,300	Aug. 25	2425	594	76	1127
Ebel, B. S. (See Sommerfeld, Heinrich, assignor.)						
Eberhard Manufacturing Company. (See Smith, Ezra B., assignor.)						
Eberhardt, Henry. (See Burton and Eberhardt.)						
Eberhardt, William. (See Burgin, John F., assignor.)						
Eberle, William, Philadelphia, Pa. Railway-car	557,061	Mar. 24	2810	668 669	74	1706
Eberman, Joseph W., assignor of two-thirds to L. J. Lewis and E. Bellew, Croton-on-the-Hudson, N. Y. Low-water alarm	574,143	Dec. 29	3711	884	77	2045
Ebersole, John F., Salem, Oreg. Combined pulverizer, weeder, and cultivator	568,563	Sept. 29	3215	775	76	1936
Ebert, Harry, Frederick, Md. Combined apron-clamp and whip-socket	563,363	July 7	220	50	76	45
Ebert, Octavius S., Galesburg, Ill. Vehicle-axle	569,183	Oct. 13	799	187	77	168
Ebert, Octavius S., Galesburg, Ill. Nut-lock	571,066	Nov. 10	1155	270	77	882
Ebert, Octavius S., Galesburg, Ill. Axle-nut lock	571,067	Nov. 10	1156	270	77	882
Ebling, Charles F., Callensburg, Pa. Tea-kettle	554,250	Feb. 11	815	186	74	670
Ebling, Philip. (See Evans, Charles H., assignor.)						
Eby, Amos, Leaman Place, Pa. Detector	574,024	Dec. 29	3495	835	77	2005
Eby, Charley Rocky River, Ohio. Street-indicator	553,058	Jan. 14	1039	253	74	208
Eccles, James, Newark, N. J. Corn-holder	557,782	Apr. 7	464	109	75	87
Eccleston, Charles W., Centralia, Wash. Feed-water heater	557,260	Mar. 31	3176	762	74	1793
Eckel, Peter. (See Clune and Eckel.)						
Eckels, George M., Chicago, Ill. Mechanical movement	557,116	Mar. 31	2898	692 693	74	1746
Eckels, William, Mechanicsburg, Pa. Sectional adjustable burial-vault	557,783	Apr. 7	465	110	75	88
Eckenrode, William D. (See Nesom and Eckenrode.)						
Ecker, Enos C. (See Cline and Ecker.)						
Eckerd, John W., Drakesville, assignor of one-half to S. G. W. Stokes, Bloomfield, Iowa. Water elevator and carrier	563,461	July 7	377	87, 88	76	73
Eckert, F., <i>et al.</i> (See Nevill, William B., assignor.)						
Eckert, Hiram, Marine City, Mich. Device for lowering or raising carriage-tops	553,154	Jan. 14	1211	294	74	242
Eckert, Hiram, Marine City, Mich. Curtain-pole	572,249	Dec. 1	271	66	77	1330
Eckert, Thomas T., New York, N. Y. Means for supporting and insulating electric conductors	554,664	Feb. 18	1534	362	74	822
Eckhardt, Heinrich, Toledo, Ohio, assignor of one-half to H. Bartelt, Cedarburg, Wis. Educational appliance	572,972	Dec. 15	1562	375	77	1614
Eclipse Electric Lamp Company. (See Morison, William, assignor.)						
Economic Machine Company. (See Child, Brainerd W., assignor.)						
Economic Machine Company. (See Child, Foy, and Leavitt, assignors.)						
Economic Machine Company. (See Child, Keating, and Foy, assignors.)						
Economic Machine Company. (See Ford, Frank R., assignor.)						
Economic Machine Company. (See Foy and Leavitt, assignors.)						
Economic Machine Company. (See Leavitt, Frank M., assignor.)						
Economic Machine Company. (See Taylor, Arthur K., assignor.)						
Eddowes, William, Newark, N. J. Photographic vignetter	572,928	Dec. 8	1474	354	77	1581
Eddy Electric Manufacturing Company. (See Heath, Harry E., assignor.)						
Eddy, Frank H., New York, N. Y. Bottle	560,400	May 19	1943	443	75	1109
Eddy, George D., Brooklyn, N. Y. Planing-machine	556,091	Mar. 10	1077	257 258	74	1349
Eddy, George W., assignor to A. J. and H. C. Clayton, Bristol, Conn. Door-bell	570,202	Oct. 27	2609	620	77	533
Eddy, Jesse P., <i>et al.</i> (See Burnham, Arthur M., assignor.)						
Eddy, John S., Chicago, Ill., assignor of one-half to M. Smith, Denver, Colo. Spring-tire	556,498	Mar. 17	1862	434	74	1511
Eddy, Newell A., Bay City, Mich. Bicycle-support	557,567	Apr. 7	74	19	75	15
Edeburn, Alfred N., Cleveland, Ohio. Head-block for arc-lamps	560,262	May 19	1698	386	75	1066
Edelen, William R., Washington, D. C. Closed conduit and appliance for electric railways	557,784	Apr. 7	466	110 111	75	88
Edenborn, William, Chicago, Ill. Machine for making wire fencing	558,787	Apr. 21	2239	541	75	453
Edenborn, William, Chicago, Ill. Machine for making wire fencing	565,380	Aug. 4	776	185	76	761
Edes, Alton D. (See Hinchliffe and Edes.)						
Edey, Alfred S., Des Moines, Iowa. Car-coupling	556,406	Mar. 17	1682	392	74	1476
Edgar, Clarence W., Toledo, Ohio. Cotton-harvester	555,439	Feb. 25	2923	694	74	1099
Edgar, Ellis F., Woodbridge, N. J. Mechanical movement	555,235	Feb. 25	2546	599	74	1028
Edgar, Ellis F., Woodbridge, N. J. Boiler	555,236	Feb. 25	2548	600	74	1029
Edgar, Ellis F., Woodbridge, N. J. Hot-air furnace	566,450	Aug. 25	2752	668	76	1187
Edgar, Joseph M., <i>et al.</i> (See Wolcott, Joshua J., assignor.)						
Edgar Manufacturing Co. (See Damon, Charles E., assignor.)						
Edgar, William B. (See McFarlane and Edgar.)						
Edgar, William K., and W. L. Sebring, Colorado Springs, Colo. Numbering-stamp for car-seals	560,349	May 19	1854	422	75	1092

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Edgar, William K., and W. L. Sebring, Colorado Springs, Colo. Seal-lock.....	563,916	July 14	1189	280	76	237
Edgarton, Henry, Shirley, Mass. Fruit-gatherer.....	561,575	June 9	926	221	75	1570
Edge, Horace L., Brooklyn, N. Y., assignor to Heydrich, Raffloer & Company, Havana, Cuba. Jenny for winding bobbins.....	556,843	Mar. 24	2431	571	74	1634
Edgecomb, Harry A., Mechanics Falls, Me., assignor of one-half to H. Stansfield, Haverhill, Mass. Dental plugger or mallet.....	574,025	Dec. 29	3496	835	77	2005
Edgecomb, John S., Mystic, Conn. Paper-cutter.....	572,358	Dec. 1	480	112	77	1370
Edgerton, Charles, Philadelphia, Pa. Water-tube boiler.....	572,476	Dec. 1	677	162	77	1407
Edgerton, George W., et al. (See Barrett, Alfred, assignor.)						
Edgington, Frederick W., Amherst, Mass. Water-filter.....	555,685	Mar. 3	344	79	74	1191
Edgren, August H., and G. Elmen, Lincoln, Nebr.; said Edgren assignor to said Elmen. Attachment for bicycles.....	561,545	June 2	866	208	75	1533
Edison General Electric Company. (See Leonard, Harry W., assignor.)						
Edison, George M. (See Wheeler, John, assignor.)						
Edison, Thomas A., Llewellyn Park, N. J. Method of and apparatus for drawing wire.....	563,462	July 7	379	88	76	73
Edison, Thomas A., Llewellyn Park, N. J. Separating ores.....	564,423	July 21	2085		76	415
Edison, Thomas A., Llewellyn Park, N. J. Crushing-roll.....	567,187	Sept. 8	706	188	76	1445
Edminster, Charles F., Wyandot, Ill. Scale.....	553,978	Feb. 4	318	70	74	563
Edmiston, Robert H., Los Angeles, Cal. Trigonometrical elucidator.....	570,137	Oct. 27	2528	599	77	517
Edmonds, Nelson D., Chicago, Ill. Device for retaining rubbers or overshoes on shoes.....	558,937	Apr. 28	2501	607	75	520
Edmunds, Henry, London, England. Armoring or covering for electric cables.....	569,748	Oct. 20	1829	434	77	373
Edquist, Andrew, Denver, Colo. Clamp-joint.....	571,042	Nov. 10	1116	261	77	875
Edson, L. E. (See Cady, Joel E., Jr., assignor.)						
Edward Miller & Company. (See Homan, William C., assignor.)						
Edward Miller & Company. (See Langston, Thomas, assignor.)						
Edward Miller & Company. (See Williams, Frank T., assignor.)						
Edward P. Allis Company. (See Gray, William D., assignor.)						
Edward Smith & Company. (See Sabin, Alvah H., assignor.)						
Edwardes, William R. (See Hawkins, Samuel H. and H., assignors.)						
Edwards, Arthur H., and J. Hazard, Wheatland, Mo. Combined square and level.....	568,751	Oct. 6	70	16	77	16
Edwards, Curtis G., assignor of two-thirds to S. E. Edwards, Plain City, and E. Booth, Cincinnati, Ohio. Wood-filler composition.....	553,209	Jan. 14	1314		74	261
Edwards, Dolph, assignor of one-half to J. C. Thorpe, Sanford, Fla. Bottle.....	572,477	Dec. 1	678	162	77	1408
Edwards, Edward W., Johnstown, Pa. Nut-lock.....	573,840	Dec. 22	3146	749	77	1928
Edwards, George C., Oakland, Cal. Exercising apparatus.....	559,270	Apr. 28	3140	759	75	641
Edwards, George S. (See Canfield, Philip B., assignor.)						
Edwards, Harrison S., Monroe, Ky. Press.....	554,995	Feb. 18	2114	503	74	932
Edwards, Henry F., St. Louis, Mo. Latch.....	565,847	Aug. 11	1633	400	76	940
Edwards, Isaac L. (See Cota and Edwards.)						
Edwards, James A., assignor to J. A. Cooper, Owosso, Mich. Folding seat for vehicles.....	574,310	Dec. 29	4046	961	77	2106
Edwards, James H. (See Christopher, James H., assignor.)						
Edwards, James H., Berlin, Conn. Structural beam.....	562,175	June 16	1968	477	75	1785
Edwards, John, et al. (See Davies, John R., assignor.)						
Edwards, John J. (See Barbour and Edwards.)						
Edwards, John J. (See Edwards, Thomas, Jr., and J. J.)						
Edwards, Oliver M. (See Sweet, John E., assignor.)						
Edwards, Oliver M., Syracuse, N. Y. Window.....	570,916	Nov. 10	903	210	77	835
Edwards, Richard J., Galena, Ill. Car-coupling.....	569,374	Oct. 13	1136	270 271	77	233
Edwards, Sherman E., et al. (See Edwards, Curtis G., assignor.)						
Edwards, Thomas C. (See Thompson and Edwards.)						
Edwards, Thomas, Jr., and J. J., Grand Rapids, Mich. Screw-driver.....	568,341	Sept. 29	2825	681	76	1865
Edwards, Thomas M., New London, Conn. Grate.....	567,083	Sept. 1	622	144	76	1400
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Shears.....	553,398	Jan. 21	1644	393	74	335
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Traveling crane.....	562,381	June 23	2316	562	75	1866
Edwards, William B., and G. E. Potter, Holyoke, Mass. Dough-mixer.....	569,449	Oct. 13	1256	295	77	254
Edwards, William J., Chicago, Ill. Water-heater.....	560,848	May 26	2175	637	75	1280
Edwin Harrington, Son & Company. (See McGregor, John A., assignor.)						
Eells, Albert F., Brooksville, Me. Foundation for lighthouses.....	560,088	May 12	1365	306	75	953
Eells, Ulysses S., Edgewater, N. J. Coupling for bicycles.....	565,443	Aug. 11	884	209	76	800
Effinger, August, and W. H. Metzger, Canton, Ohio; said Metzger assignor to said Effinger. Pruning-shears. (Reissue).....	11,534	Apr. 28	3280	792	75	667
Efros, Charles, assignor to V. P. Travers, New York, N. Y. Composition for treating fiber.....	557,568	Apr. 7	75		75	16
Efros, Charles, assignor to V. P. Travers, New York, N. Y. Composition for treating fiber.....	562,219	June 16	2038		75	1799
Efros, Charles, assignor to V. P. Travers, New York, N. Y. Lubricant.....	562,291	June 16	2156		75	1820
Egan, Thomas A., assignor to New Jersey Car Spring and Rubber Company, Jersey City, N. J. Belt-stitching machine.....	560,201	May 19	1575	357	75	1014
Edge, Frederick, Bridgeport, Conn. Covering lacing-studs or similar articles.....	557,526	Mar. 31	3648	874	74	1883
Eggerdinger, George F., and G. R. Swaine, Cleveland, Ohio. Gas-engine.....	561,774	June 9	1287	309	75	1639
Eggers, Anton C., Brooklyn, N. Y. Vaginal syringe.....	559,690	May 5	573	135	75	791
Eggers, Luhr, Jr., et al. (See Gibbons, John, assignor.)						
Eggert, George E., Scranton, Pa. Combination pencil-tip.....	570,248	Oct. 27	2696	641	77	549
Egleston, James W., Minneapolis, Minn. Gage-pin for printing-presses.....	558,551	Apr. 21	1825	444	75	379
Egry Autographic Register Company. (See Egry, William L., assignor.)						
Egry, William L., assignor to Egry Autographic Register Company, Dayton, Ohio. Autographic register.....	563,849	July 14	1058	249 250	76	213
Ehbets, Carl J., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Gas-operated magazine-gun.....	570,388	Oct. 27	2980	706 707	77	601
Ehlebe, William A., and D. O. Daugherty, Rock Island, Ill. Display-refrigerator.....	565,969	Aug. 18	1892	460	76	1008
Ehret, Michael, Philadelphia, Pa. Machine for manufacturing roofing-paper.....	565,336	Aug. 4	707	169 170	76	747
Ehrhardt, Heinrich, Dusseldorf, Germany. Rolling-mill for rolling seamless annular bodies.....	564,009	July 14	1356	316	76	268
Ehrhardt, Heinrich A. T., Dusseldorf, Germany. Manufacturing wrought-iron and steel disk and spoke wheels.....	560,785	May 26	2662	612	75	1257
Ehrhardt, William, Union, N. J. Multifuse cut-out.....	568,971	Oct. 6	436	97	77	84
Ehrhardt, George, Lancaster, Pa. Guard-rail holder.....	564,876	July 28	2856	684	76	573
Ehring, William, et al. (See Keller, Solomon, assignor.)						
Ehrlich, Friedrich E. P., Gohlis, Germany. Driving-gear for music-sheets.....	559,773	May 5	730	174 175	75	820

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Ehrlich, Karl. (See Sommerfeld, Heinrich, assignor.)						
Ehrlich, Leo, St. Louis, Mo., assignor to National Cash Register Company, Dayton, Ohio. Cash register, indicator, and check-printer	560,089	May 12	1366	<div>306 307 308 309</div>	75	954
Ehrlich, Paul, Gohlis, Germany. Mechanical musical instrument	566,150	Aug. 18	2189	532	76	1064
Eibee, Carl, Brooklyn, N. Y. Coal-bucket	571,303	Nov. 10	1569	372	77	960
Eibler, Bernhard F., Cleveland, Ohio. Fly-wheel	558,163	Apr. 14	1160	284	75	237
Eichengrün, Arthur, Bonn, Germany. Iodoform combination with hexamethylentetramine	567,968	Sept. 22	2144	.....	76	1723
Eicher, Jacob A., Trenton, Ill. Fishing-rod support	567,084	Sept. 1	624	144	76	1400
Eichholtz, William B., New Orleans, La. Journal-box	559,091	May 5	574	135	75	791
Eichhorn, Augustus, Orange, N. J. Radiator	557,499	Mar. 31	3604	863	74	1875
Eichhorn, Augustus, Orange, N. J. Radiator	560,090	May 12	1377	<div>309 310</div>	75	956
Eichhorn, Augustus, Orange, N. J. Feed and return fitting for steam-radiators	566,151	Aug. 18	2191	532	76	1064
Eichhorn, Augustus, Orange, N. J. Steam-radiator	569,040	Oct. 6	558	<div>128 129</div>	77	106
Eichhorn, Augustus, Orange, N. J. Steam-fitting	571,612	Nov. 17	2091	502	77	1068
Eichler, Carl P., Cleveland, Ohio. Flour-sifter	553,845	Feb. 4	58	12	74	516
Eichler, Henry. (See McGregor and Eichler.)						
Eichsteadt, Roman, Michigan City, Ind. Roller-bearing	563,146	June 30	3684	882	75	2146
Eickemeyer Field Company. (See Eickemeyer, Rudolf, assignor.)						
Eickemeyer, Rudolf, deceased, Yonkers, N. Y.; R. Eickemeyer, Jr., executor. Speed-regulator for electric motors	564,558	July 21	2310	543	76	455
Eickemeyer, Rudolf, deceased, Yonkers, N. Y.; R. Eickemeyer, Jr., executor. Dynamo-electric machine	564,559	July 21	2313	544	76	455
Eickemeyer, Rudolf, deceased, Yonkers, N. Y.; R. Eickemeyer, Jr., executor. Hat or felt-pouncing machine	565,158	Aug. 4	388	<div>90, 91</div>	76	689
Eickemeyer, Rudolf, deceased, Yonkers, N. Y.; R. Eickemeyer, Jr., executor. Electric motor	567,119	Sept. 1	680	<div>158 159</div>	76	1411
Eickemeyer, Rudolf, deceased, Yonkers, N. Y.; R. Eickemeyer, Jr., executor. Magnetic separator	567,381	Sept. 8	1160	278	76	1508
Eickemeyer, Rudolf, deceased, Yonkers, N. Y.; R. Eickemeyer, Jr., executor. Magnetic separator	567,382	Sept. 8	1163	278	76	1508
Eickemeyer, Rudolf, Yonkers, N. Y., assignor to Eickemeyer Field Company, of New York. Electric locomotive	565,407	Aug. 4	823	195	76	769
Eickershoff, John H., Cincinnati, Ohio. Automatic printing and adding machine	565,337	Aug. 4	709	<div>170 171</div>	76	747
Eide, Sören, San Francisco, Cal. Steam-engine valve	554,506	Feb. 11	1254	293	74	753
Eigel, Wilhelm, Pittsburg, Pa. Chimney-top	552,828	Jan. 7	619	150	74	116
Eiker, Thaddeus B., Hackensack, N. J. Educational puzzle	560,485	May 19	2092	478	75	1135
Eilers, Hio P., Cleveland, Ohio. Mechanical movement	553,113	Jan. 14	1147	278	74	230
Eilers, Hio P., Cleveland, Ohio. Screw-cutting machine	558,368	Apr. 14	1504	369	75	302
Einhellig, Peter T., et al. (See Porter, James S., assignor.)						
Einstein, Frank S. (See Rosedale, Adolph, assignor.)						
Eisele, Stephen A., San Antonio, Fla. Truck-bearing	560,466	May 19	2093	478	75	1136
Eisele, Stephen A., San Antonio, Fla. Nut-lock	570,917	Nov. 10	908	211	77	836
Eisenbart, August, Bristol, Conn. Buttonhole-cutter	561,775	June 9	1289	310	75	1639
Eisenberg, Christian, Berlin, Germany. Nailless fastening for horseshoes	564,245	July 21	1775	415	76	361
Eisenberg, Christian, Berlin, Germany. Nailless horseshoe	569,623	Oct. 20	1576	371	77	329
Eisenhardt, George F., and T. J. Flynn, assignors to Thomas Potter Sons & Company, Philadelphia, Pa. Apparatus for making inlaid or mosaic inoleum	557,785	Apr. 7	469	<div>111 112 113 114</div>	75	89
Eisenhut, Laurence C., Brooklyn, N. Y. System for collecting water from wells	574,198	Dec. 29	3847	917	77	2068
Eisenhuth, John W., San Francisco, Cal. Gas-engine	558,369	Apr. 14	1507	370	75	302
Eisenhuth, John W., San Francisco, Cal. Expansion gas-engine	574,311	Dec. 29	4047	<div>961 962</div>	77	2106
Eisenhuth, Oscar, assignor to D. J. Reaume, Detroit, Mich. Tap-coupling	568,432	Sept. 29	2973	714	76	1802
Eitel, Willis D., San José, Cal. Bottle-seal	559,520	May 5	290	69	75	738
Ekenberg, Martin, Stockholm, Sweden. Separating constituents of suint	558,768	Apr. 21	2242	.....	75	454
Ekrem, Harry, San Pedro, Cal. Winch	557,074	Mar. 24	2827	674	74	1710
Elam, William E., Americus, Ga. Tobacco-pipe	562,503	June 23	2084	648	75	1934
Elbers, Alexander D., Hoboken, N. J. Desulfurizing blast-furnace slag in its molten state	558,370	Apr. 14	1510	.....	75	303
Elborne, William, assignor of one-half to F. Smallbones, Peterborough, England. Stature-indicator	558,014	Apr. 7	907	227	75	170
Elbreg, Henry H. (See Miner and Elbreg.)						
Elder, Edward E., Lynn, Mass., assignor to Elder Manufacturing Company, Portland, Me., and Lynn, Mass. Machine for making bungs, &c	569,554	Oct. 13	1439	<div>339 340 341</div>	77	287
Elder, Edward E., Lynn, and H. S. Kelly, Salem, Mass., assignors to Elder Manufacturing Company, Portland, Me., and Lynn, Mass. Machine for making bungs	569,488	Oct. 13	1313	<div>309 310 311</div>	77	264
Elder, Edward E., and E. H. Taylor, Lynn, Mass., assignors to Elder Manufacturing Company, Portland, Me., and Lynn, Mass. Machine for making bungs, &c	569,555	Oct. 13	1445	<div>341 342</div>	77	289
Elder, James A., assignor of one-half to R. Hardwick, Galena, Kans. Flooring and ceiling tool	571,432	Nov. 17	1779	424	77	1013
Elder, John. (See Fassett and Elder.)						
Elder Manufacturing Company. (See Elder, Edward E., assignor.)						
Elder Manufacturing Company. (See Elder and Kelly, assignors.)						
Elder Manufacturing Company. (See Elder and Taylor, assignors.)						
Elder, Samuel S., Springfield, Mass. Tire for vehicle-wheels	562,811	June 30	3060	740	75	2024
Elder, Samuel S., Springfield, Ill. Tire for vehicle-wheels	569,864	Oct. 20	2014	480	77	407
Eldred, William W. (See Holt and Eldred.)						
Eldredge, Edmund F. (See Schlicht, Paul J., assignor.)						
Eldridge, George W. (See Nickerson and Eldridge.)						
Eldridge, Hilliary, Galveston, Tex. Gas-generating apparatus	567,641	Sept. 15	1589	<div>382 383</div>	76	1603
Eldridge, Hilliary, D. J. Clark, and M. W. Wambaugh, Galveston, Tex. Composition of matter for manufacturing calcium carbide	571,084	Nov. 10	1194	.....	77	889
Eldridge, Lewis, Marilla, N. Y. Neck-yoke	572,530	Dec. 8	773	184	77	1440
Eldridge, Micajah L. (See Witherell and Eldridge.)						
Eldridge, Reuben C., Niagara, Canada. Currycomb	564,367	July 21	1987	467	76	396

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Eldridge, Samuel, Dexter, Me. Fastener for outside sashes.	558,050	Apr. 14	977	240	75	201
Electric Bulletin Company. (See Jennings, Franklin A., assignor.)						
Electric Car Company of America. (See Hunter, Rudolph M., assignor.)						
Electric Chemical Company. (See Porsch, Ottokar, assignor.)						
Electric Cutter Company. (See Thyll, Arthur K., assignor.)						
Electric Experimental and Developing Company. (See Lundell, Robert, assignor.)						
Electric Exploitation Company. (See Sussmann, Max, assignor.)						
Electric Fire Proofing Company. (See Kalamaikowski, Stanislaus, assignor.)						
Electric Flameless Gas Stove Company. (See Finlay, Robert G., assignor.)						
Electric Gas Lighting Company. (See Galbraith, George J., assignor.)						
Electric Gas Lighting Company. (See Thomson, Henry C., assignor.)						
Electric Gas Lighting Company of Maine. (See O'Neill, James A. and G. A., assignors.)						
Electric Hardware Manufacturing Company. (See Hussey, Charles A., assignor.)						
Electric Motor Company. (See Merritt, Frank W., assignor.)						
Electric Rectifying and Refining Company. (See Pridham, Marshall, assignor.)						
Electric Scale Company. (See Doble and Watson, assignors.)						
Electric Scale Company. (See Watson, George W., assignor.)						
Electric Selector and Signal Company. (See Bogart, Samuel S., assignor.)						
Electric Selector and Signal Company. (See Duppler, Anton, assignor.)						
Electric Selector and Signal Company. (See Le Blanc, Alexis, assignor.)						
Electric Selector and Signal Company. (See Leonard, Michael B., assignor.)						
Electric Selector and Signal Company. (See Webb, Herbert L., assignor.)						
Electric Storage Battery Company. (See Madden, Albert F., assignor.)						
Electro-Chemical Company. (See Leith, John, assignor.)						
Electro-Chemical Company. (See Waite, Charles N., assignor.)						
Electro-Cyanide Gold and Silver Extracting Company. (See Danckwardt, Paul, assignor.)						
Electro-Dynamic Company. (See Pfatscher, Mathias, assignor.)						
Electro Gas Company. (See Willson, Thomas L., assignor.)						
Electro-Magnetic Concentrating Company. (See Dimmick and Woods, assignors.)						
Electro-Magnetic Traction Company. (See Chapman, William, assignor.)						
Electro-Magnetic Traction Company. (See Chapman and Davies, assignors.)						
Electro-Magnetic Traction Company. (See Westinghouse, George, Jr., assignor.)						
Electro-Metallurgical Company. (See Georges, Ernest A., assignor.)						
Electro-Metallurgical Company. (See Placet and Bonnet, assignors.)						
Electro Metallurgical Company. (See Wallace, Roger W., assignor.)						
Electro Waterproofing and Dye Fixing Company. (See Brevoort, Henry L., assignor.)						
Elektrochemische Werke. (See Kiliani, Rathenau, and Suter, assignors.)						
Elender, Clairville, West Lake, La. Sawmill-dog.	554,586	Feb. 11	1388	326	74	780
Elevator Safety Controller Company. (See Collet, Mark W., assignor.)						
Elevator Safety Controller Company. (See Fahy, William C., assignor.)						
Elevator Safety Controller Company. (See Wright, Ransom C., assignor.)						
Elgin National Watch Company. (See Hunter, George E., assignor.)						
Elgin National Watch Company. (See Jackman, Lemuel N., assignor.)						
Elgin National Watch Company. (See Purdy, Fred, assignor.)						
Elgin National Watch Company. (See Smith, Charles H., assignor.)						
Elgin National Watch Company. (See Smith, Curtis A., assignor.)						
Elias, Carl R., Chicago, Ill. Piano music-rack.	557,304	Mar. 31	3257	781	74	1808
Elison, Oliver, Concord, Nebr. Device for demonstrating financial problems.	571,613	Nov. 17	2092	502	77	1068
Elitac Manufacturing Company. (See Chapman and Scott, assignors.)						
Elkin, Charles, Jersey City, N. J., assignor to Singer Manufacturing Company, of New Jersey. Account-card.	570,249	Oct. 27	2697	{ 641 642 }	{ 77 76 }	{ 549 1065 }
Ellard, Michael N., Concord, N. H. Bottle-stopper.	566,152	Aug. 18	2192	533	76	1065
Ellesen, Edvard, Chicago, Ill. Can-heading machine.	560,024	May 12	1241	{ 273 279 }	{ 75 75 }	{ 930 930 }
Ellermann, Friedrich W., assignor to M. Engl and F. Wüste, Vienna, Austria-Hungary. Accumulator or secondary battery.	572,198	Dec. 1	178		77	1312
Elliot Frog and Switch Company. (See Elliot, William H., assignor.)						
Elliot, Henry, Jr., St. Louis, Mo. Railway-rail brace.	560,982	May 26	2999	691	75	1322
Elliot, Henry, St. Louis, Mo. Spring-rail frog.	563,027	June 30	3466	833	75	2106
Elliot, Henry C. (See Hardie, Robert, assignor.)						
Elliot, Henry C. (See Hartigan, Joseph F., assignor.)						
Elliot, Joseph M., Philadelphia, Pa. Photographic camera.	569,328	Oct. 13	1060	{ 251 252 }	{ 77 77 }	{ 219 219 }
Elliot, William H., St. Louis, Mo., assignor to Elliot Frog and Switch Company, East St. Louis, Ill. Railway-switch.	560,981	May 26	2998	690	75	1321
Elliot, Alvin D. (See Glidden and Elliott.)						
Elliot, Benjamin L., Triplett, Mo. Disk-sharpener.	555,936	Mar. 10	772	186	74	1294
Elliot, Charles A., Jackson, Mich. Non-refillable bottle.	566,153	Aug. 18	2193	533	76	1065
Elliot, Clayton B. (See Stevens, George D., assignor.)						
Elliot, Frederick J. (See Mathias, Georges, assignor.)						
Elliot, George C., Chicago, Ill., assignor, by mesne assignments, to W. P. Hatch, New York, N. Y. Type-writing machine.	573,081	Dec. 15	1754	421	77	1651
Elliot, George S., Bar Harbor, Me. Collar.	557,062	Mar. 24	2812	669	74	1706
Elliot & Hatch Book Typewriter Company. (See Blackstock and Conley, assignors.)						
Elliot, Henry C. (See Hardie, Robert, assignor.)						
Elliot, Howard, Altoona, Pa. Adjustable mouthpiece.	557,569	Apr. 7	77	20	75	16
Elliot, James A. R., Kansas City, Mo. Electric trap-release.	558,051	Apr. 14	978	240	75	201
Elliot, James W., Corsicana, Tex. Cotton elevator and distributor.	571,473	Nov. 17	1849	440	77	1025
Elliot, Jerre B., and R. J. Mawhinney, Washington, D. C. Device for detachably securing type-writing machines to dropping leaves of cabinets, &c.	558,789	Apr. 21	2243	542	75	454
Elliot, Jerre B., Chicago, Ill., and R. J. Mawhinney, Washington, D. C. Drop-leaf type-writer holder.	558,790	Apr. 21	2244	542	75	454
Elliot, John B., Cleveland, Ohio. Metal-bending machine.	561,211	June 2	240	57	75	1414
Elliot, Joseph H. (See Williams and Elliott.)						
Elliot, Lucius J. (See Reichert, John, assignor.)						
Elliot, Percival W., Reading, assignor to Highland Foundry Company, Boston, Mass. Heating stove or furnace.	567,126	Sept. 8	701	163	76	1426
Elliot, Robert H., assignor to Alabama Blasting and Mining Company, Birmingham, Ala. Device for placing electric blasting-fuses.	556,882	Mar. 24	2503	590	74	1648
Elliot, Robert H., assignor to Alabama Blasting and Mining Company, Birmingham, Ala. Reamer.	560,787	May 26	2664	613	75	1258
Elliot, Robert H., assignor to Alabama Blasting and Mining Company, Birmingham, Ala. Apparatus for operating mining drills and reamers.	561,501	June 2	779	190	75	1517
Elliot, Robert H., assignor to Alabama Blasting and Mining Company, Birmingham, Ala. Combined auger and reamer for mining purposes.	564,508	July 21	2212	519	76	438

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Elliott, Robert H., assignor to Alabama Blasting and Mining Company, Birmingham, Ala. Combined anger and reamer for mining purposes	564,509	July 21	2214	520	76	439
Elliott, Robert H., assignor to Alabama Blasting and Mining Company, Birmingham, Ala. Reamer	564,510	July 21	2216	520	76	439
Elliott, Walter E., Denver, Colo. Air-compressor	568,433	Sept. 29	2974	715	76	1892
Elliott, Walter S., Sag Harbor, N. Y. Clasp for dental plates	564,600	July 28	2395	565	76	4-9
Elliott, Walter V. (See Watrous, Thomas A., assignor.)						
Elliott, William B., and J. W. Eskholme, Westfield, N. J. Dynamo-electric machine and electric motor	564,743	July 28	2631	{ 626 627 167 168 169 }	{ 76 74 }	532
Elliott, William E., Marion, Iowa. Button-attaching machine	552,869	Jan. 7	690	{ 627 167 168 169 }	{ 76 74 }	130
Elliott, William E., Elgin, assignor to J. R. Lane, Chicago, Ill. Automatic brake for bicycles	554,416	Feb. 11	1104	257	74	725
Elliott, William K. (See De Witt and Elliott.)						
Elliott, William R., assignor of two-fifths to I. C. Robbins and C. A. Emmons, Chicago, Ill. Electric railway	557,657	Apr. 7	251	61	75	47
Ellis, Abram, assignor of one-half to W. R. Brown, Columbus, Ga. Absorption ice-machine	552,991	Jan. 14	930	225	74	188
Ellis, Axel B., Boston, Mass. Electric block system for railway-crossings	556,139	Mar. 10	1163	273	74	1365
Ellis, Charles A., and E. S. Miller, Kansas City, Kans. Pneumatic cushion for elevators	572,531	Dec. 8	774	184	77	1440
Ellis, Charles J. (See McArthur and Ellis.)						
Ellis, Charles S., assignor to Ellis-Southwick Company, Chicago, Ill. Type-writing machine.	559,125	Apr. 28	2827	685	75	586
Ellis, Charles S., assignor to Ellis-Southwick Company, Chicago, Ill. Type-writing machine.	559,126	Apr. 28	2834	{ 685 686 686 687 688 689 }	{ 75 75 }	586
Ellis, Charles S., assignor to Ellis-Southwick Company, Chicago, Ill. Type-writing machine.	559,127	Apr. 28	2841	{ 687 688 689 690 691 }	{ 75 75 }	587
Ellis, Charles S., assignor to Ellis-Southwick Company, Chicago, Ill. Type-writing machine.	559,128	Apr. 28	2856	{ 691 781 782 783 }	{ 75 75 }	589
Ellis, Charles S., assignor to Ellis-Southwick Company, Chicago, Ill. Type-writing machine.	559,325	Apr. 28	3231	{ 781 782 783 }	{ 75 75 }	658
Ellis, Charles S., assignor to Ellis-Southwick Company, Chicago, Ill. Type-writing machine.	559,326	Apr. 28	3235	{ 782 783 }	{ 75 74 }	659
Ellis, David T., Springfield, Mass. Mucilage-bottle	557,118	Mar. 31	2903	693	74	1747
Ellis, Edward E., assignor of one-half to J. C. Pennie, Washington, D. C. Means for preventing puncture of pneumatic tires	567,565	Sept. 8	1447	348	76	1561
Ellis, Edward S., Englewood, N. J. Brake for bicycles	553,686	Mar. 3	346	79	74	1192
Ellis, Frederick L. (See Gottwals and Ellis.)						
Ellis, George H., Chicago, Ill. Knot-tying device for automatic grain-binders	567,737	Sept. 15	1749	419	76	1635
Ellis, George H., assignor to Deering Harvester Company, Chicago, Ill. Stop-motion and testing mechanism for twine-machines	567,127	Sept. 8	702	164	76	1426
Ellis, George H., and J. F. Steward, Chicago, Ill. Gear for motorcycles	570,203	Oct. 27	2611	{ 620 621 }	{ 77 77 }	534
Ellis, George H., and J. F. Steward, assignors to William Deering & Company, Chicago, Ill. Twine-spinning machine	568,299	Sept. 22	2744	{ 621 659 660 }	{ 76 76 }	1835
Ellis, George L. (See Ellis, James M., assignor.)						
Ellis, Halcomb G., St. Louis, Mo. Cotton-press	565,069	Aug. 4	180	43, 44	76	651
Ellis, Harry, St. Catharines, Canada. Machine for cutting leather	562,126	June 16	1886	457	75	1769
Ellis, Henry R., San Francisco, Cal. Ore-concentrator	552,519	Jan. 7	29	9	74	8
Ellis, James M., assignor of one-half to G. L. Ellis, Galesburg, Ill. Cant-hook for lumbermen	573,844	Dec. 22	3150	751	77	1929
Ellis, John, assignor of one-half to C. H. Van Pelt, Jersey City, N. J. Miter-box	569,327	Oct. 13	1058	251	77	218
Ellis, John H., et al. (See Dennis, Henry P., assignor.)						
Ellis, Joseph, Detroit, Mich. Sewer-trap	561,381	June 2	562	141	75	1479
Ellis, Robert H. P., Baltimore, Md. Leaf-holding device for books	560,025	May 12	1243	279	75	930
Ellis-Southwick Company. (See Ellis, Charles S., assignor.)						
Ellis, Stephen A., Oneonta, assignor to Ellis Typewriter Company, Birmingham, Ala. Type-writing machine	556,812	Mar. 24	2386	561	74	1625
Ellis, Thomas B., assignor of one-half to Z. A. Church, Jefferson, Iowa. Wrench	558,451	Apr. 14	1660	399	75	331
Ellis Typewriter Company. (See Ellis, Stephen A., assignor.)						
Ellis, Walter, Kingston-upon-Hull, England. Inflation-tube for pneumatic tires	558,552	Apr. 21	1826	445	75	379
Ellison, Isaac, Waukesha, Wis. Roller-bearing	552,752	Jan. 7	457	114	74	86
Ellison, Steele, Philadelphia, Pa. Car-fender	553,155	Jan. 14	1212	294	74	242
Ellithorpe, Albert B., et al. (See Hultgren, William H., assignor.)						
Ellithorpe, Albert C., Chicago, Ill. Safety device for elevators	557,117	Mar. 31	2900	693	74	1747
Ellrich, Robert C., assignor to Peck, Stow & Wilcox Company, Southington, Conn. Wrench	553,059	Jan. 14	1041	253	74	209
Ellsworth, Henry W., Montvale, N. J. Binding reversible forms of writing-books	565,381	Aug. 4	779	186	76	761
Ellsworth, Herbert, Cleveland, Ohio. Umbrella stand and lock	554,618	Feb. 11	1447	339	74	790
Ellsworth, James, et al. (See Parks, Dewey R., assignor.)						
Ellsworth, William E., assignor of one-half to B. J. Pratt, Cleveland, Ohio. Combined packing and valve	568,669	Sept. 29	3428	820	76	1977
Ellwood, Isaac L., De Kalb, Ill. Woven-wire fence	566,567	Aug. 25	2926	714	76	1221
Ellwood Tin-Plate Company. (See Daellenbach and Phillips, assignors.)						
Elmen, George. (See Edgren and Elmen.)						
Elmer, Daniel. (See Lambert, Albert S., assignor.)						
Elmer, Daniel. (See Lambert and Hoffman, assignors.)						
Elmer, William, Jr., Trenton, N. J. Canal-boat propulsion	559,271	Apr. 28	3142	759	75	641
Elmer, William H., Berlin, Wis. Turbine	565,848	Aug. 11	1634	400	76	940
Elmes, William, Beaver Falls, Pa. Wire mat	558,015	Apr. 7	908	227	75	170
Elmira Safety Appliance Company. (See Wood and Miller, assignors.)						
Elmore, Riverious P., Chicago, Ill. Hand-power rock-drilling machine	573,454	Dec. 22	2462	584	77	1798
Elmore, William A., New York, N. Y. Cash recorder and refunding machine	562,812	June 30	3061	{ 740 741 }	{ 75 75 }	2024
Elston, Charles C., Elmira, N. Y. Blind-stop	553,232	Jan. 21	1352	329	74	282
Elterich, Charles, New York, N. Y. Tap	559,372	May 5	38	9	75	688
Elton, Charles, et al. (See Lemon and Bartlett, assignors.)						
Elward, John H., Oregon, Ill. Harvester	552,520	Jan. 7	30	9	74	8
Elwell, Russell T., Hyde Park, assignor of one-half to A. M. Lougee, Boston, Mass. Armored insulating-conduit	564,174	July 14	1667	389	76	326
Elwell, Russell T., Hyde Park, assignor of one-half to A. M. Lougee, Boston, Mass. Rubber ball	567,459	Sept. 8	1285	311	76	1531
Elwood, Jefferson U., assignor to himself and D. P. Smith, McKeesport, Pa. Car-brake	561,502	June 2	781	191	75	1518

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Ely, Frederick. (See Mason and Ely.)						
Ely, George E. (See Riggs and Ely.)						
Emerich, Martin. (See Lyons and Beemer, assignors.)						
Emerson Company. (See Emerson, Victor L., assignor.)						
Emerson & Fisher Company. (See Burchill, Thomas, assignor.)						
Emerson, James, Willimansett, Mass. Device for teaching swimming	563,578	July 7	582	{ 135 136 }	76	109
Emerson, James E., Beaver Falls, Pa., assignor of one-half to E. C. Atkins & Company, Indianapolis, Ind. Saw	561,098	June 2	37	10	75	1374
Emerson, Ralph. (See Young, Charles H., assignor.)						
Emerson, Ralph, et al. (See Nelson, Alfred, assignor.)						
Emerson, Talcott & Co. (See Traphagen, William H., assignor.)						
Emerson, Victor H., assignor to United States Phonograph Company, Newark, N. J. Diaphragm-clamp for phonographs	567,738	Sept. 15	1752	420	76	1636
Emerson, Victor L., Baltimore, Md., assignor to Emerson Company, of West Virginia. Dry-kiln	554,251	Feb. 11	816	186	74	671
Emerson, Victor L., assignor to Emerson Company, Baltimore, Md. Steam heating-pipe for dry-kilns	565,856	Aug. 11	1665	408	76	946
Emerson, Victor L., assignor to Emerson Company, Baltimore, Md. Lumber-truck	569,962	Oct. 20	2186	519	77	439
Emery, Charles B., Boston, Mass. Feed-trough	574,312	Dec. 29	4051	962	77	2107
Emery, Charles E., Brooklyn, N. Y. Rail for street-railways	560,786	May 26	2663	612	75	1258
Emery, F. H., et al. (See Richardson, John R., assignor.)						
Emery, Francis W. R., Taunton, Mass. Preserving records	561,503	June 2	785		75	1519
Emery, Harry, and W. Morgan, High Bridge, N. J. Milk-can	573,865	Dec. 29	3197	761	77	1951
Emery, John B., Lynn, Mass. Sole-trimming machine	572,878	Dec. 8	1375	333	77	1561
Emery, Lewis, Jr. (See Whitmore, Edwin B., assignor.)						
Emery, Plato G., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Bell-cord support for street-cars	554,218	Feb. 4	749	170	74	643
Emery, Plato G., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Brake-handle	558,371	Apr. 14	1511	371	75	303
Emery, Plato G., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Fixture for window-shades	560,133	May 12	1448	326	75	970
Emery & Son, W. N. (See Lane, David T., assignor.)						
Emig, Jacob, assignor of one-half to G. Shaffer, Buffalo, N. Y. Machine for planing bowling-alleys	567,821	Sept. 15	1895	454	76	1663
Emlong, George. (See Grove and Emlong.)						
Emmerich & Vonderlehr. (See Funk, Nelson E., assignor.)						
Emmert, Charles S. (See Creager, Samuel, assignor.)						
Emmet, Charles, Sheffield, England. Machine for manufacturing glass bottles, &c.	567,739	Sept. 15	1754	420	76	1636
Emmet, Nathaniel P., Newburg, N. Y. Flushing device for water-closets	573,582	Dec. 22	2674	634	77	1839
Emmett, Frank, et al. (See Murphy, Thomas P., assignor.)						
Emmett, George, Attleborough, assignor to New England Electric Supply Company, Boston, Mass. Electric switch	569,576	Oct. 13	1497	353	77	299
Emmett, George, and W. E. Jaques, Attleborough, Mass. Automatic carving-machine ..	554,917	Feb. 18	1971	{ 465 466 }	74	906
Emmons, Charles A., et al. (See Elliott, William R., assignor.)						
Emmons, Charles C., Pittsburg, Pa. Plaiting-machine	557,500	Mar. 31	3605	{ 863 864 }	74	1876
Emmons, J. Frank. (See Cook, Philip A., assignor.)						
Emmons, John W., Brooklyn, N. Y. Bridle-blind	571,944	Nov. 24	2696	638	77	1202
Emmons, Wallace B., assignor to D. W. Miller, Toledo, Ohio. Hair-clasp	565,884	Aug. 18	1711	419	76	972
Emond, Vital A., Quebec, Canada. Railway	555,081	Feb. 25	2287	544	74	979
Emond, William H., Boston, Mass. Carriage-gear	574,313	Dec. 29	4052	962	77	2107
Empire Drill Company. (See Mason, Charles H., assignor.)						
Empire Ploy Company. (See Haiman, Huettich, and Bishop, assignors.)						
Empire Type Setting Machine Company. (See Hughes, Charles D., assignor.)						
Empire Type Setting Machine Company. (See Moxley, Richard J., assignor.)						
Emrick, Reuben D., Newtonburg, Pa. Gate	560,124	May 12	1433	322	75	967
Encke, Robert, and O. Frölich, assignors to Siemens & Halske, Berlin, Germany. Apparatus for electrolytic production of zinc	558,052	Apr. 14	980	240	75	202
Encquist, Erik W., Brooklyn, N. Y. Apparatus for soldering plates of iron or steel with sheets of copper or its compositions	557,979	Apr. 7	809	193	75	152
Endres, John, Madison, Wis. Window	570,918	Nov. 10	909	211	77	837
Endres, Ludwig, Mülheim-on-the-Moselle, Germany. Lock	562,515	June 23	2527	614	75	1906
Enfield, William H., Phillipsburg, Mont., assignor of one-half to A. L. Bowman, Aspen, Colo. Folding stove	555,082	Feb. 25	2287	{ 544 545 }	74	979
Engberg, Laurence, Butte, Nebr. Windmill apparatus	566,747	Sept. 1	24	6, 7	76	1285
Engel, Clement, New York, N. Y. Toy	568,972	Oct. 6	438	98	77	84
Engel, David L., Washington, D. C., assignor to Fayetteville Glove Company, Fayetteville, N. Y. Glove	558,604	Apr. 21	1923	467	75	396
Engel, Godfrey, South Baltimore, Md. Drive-chain	558,267	Apr. 14	1343	329	75	271
Engelhard, Frank and F. H., Springfield, Mass. Gas-lighting safety appliance	554,665	Feb. 18	1535	363	74	822
Engelhard, Frank and F. H., Springfield, Mass. Float	565,885	Aug. 18	1712	419	76	972
Engelhard, Frederick H. (See Engelhard, Frank and F. H.)						
Engelhardt, Christian. (See Klemm, Hermann A., assignor.)						
Engelhardt, Victor, and A. Nettel, Vienna, Austria-Hungary. Treating metallic sulfids ..	568,843	Oct. 6	214	51	77	42
Engelhart, George H., Glenville, Ohio. Sprinkling-can	566,384	Aug. 25	2597	634	76	1159
Engelman, Eugene M., Detroit, Mich. Bottle	566,387	Aug. 25	2600	634	76	1159
Engelman, Eugene M., Detroit, Mich., assignor of one-half to L. L. Schwab, New York, N. Y. Bottle	566,385	Aug. 25	2597	634	76	1159
Engelman, Eugene M., Detroit, Mich., assignor to L. L. Schwab, New York, N. Y. Bottle-stopper	566,886	Aug. 25	2599	634	76	1159
Engelmayer, Ludwig, Aschaffenburg, Germany. Apparatus for dissociating wood-pulp ..	567,822	Sept. 15	1898	454	76	1663
Engelmayer, Ludwig, Aschaffenburg, Germany. Apparatus for freeing sulfite cellulose from resin	567,823	Sept. 15	1900	455	76	1664
Engels, Hugo F., Boston, assignor of one-half to F. C. Thwaites, Cambridge, Mass. Racing-sulky	563,364	July 7	221	50	76	45
Engert, Charles, Brooklyn, N. Y. Folding booth	560,401	May 19	1944	444	75	1109
Engert, Charles, Brooklyn, N. Y. Folding booth	561,703	June 9	1152	{ 274 275 }	75	1614
Engert, Charles, Brooklyn, N. Y. Folding booth	563,147	June 30	3685	{ 882 883 }	75	2146
Engert, Gustav R. P. (See Friedman and Engert.)						
Enggren, Henry W., Brooklyn, N. Y. Lubricator	564,307	July 21	1881	442	76	378

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Engl, Moricz, <i>et al.</i> (See Ellermann, Friedrich W., assignor.)						
Engle, George S. (See Wolgemuth and Engle.)						
Engle, Howard A. (See Shuttleworth, Alpheus C., assignor.)						
Engle, Robert H., Garden Lake, N. J., assignor of one-half to C. W. S. Munro, Philadelphia, Pa. Illuminated sign for electrically-driven street-cars.	555,440	Feb. 25	2927	694 695	74	1099
English, Andrew J. (See Fraumann, John H., assignor.)						
English, Eugene M., <i>et al.</i> , administrators. (See Pohlé, Julius G.)						
English, Fred G., Rochester, N. Y. Thill-coupling	570,846	Nov. 3	778	177	77	783
English, Richard, S. Vann, and A. H. Jones, Albuquerque, N. Mex. Ter. Sash-fastener.	573,866	Dec. 29	3198	761	77	1951
Engman, Olof, Kewanee, Ill. Combination-tool	569,963	Oct. 20	2188	519	77	439
Engstrom, Axel H. (See Immendorf and Engstrom.)						
Engström, Axel H., assignor of one-half to G. S. Gandy, Philadelphia, Pa. Apparatus for regenerating exhaust-steam	556,883	Mar. 24	2504	591	74	1648
Engström, Axel H., assignor of one-half to G. S. Gandy, Philadelphia, Pa. Apparatus for regenerating exhaust-steam	556,963	Mar. 24	2633	619	74	1671
Engström, Axel H., assignor of one-half to G. S. Gandy, Philadelphia, Pa. Apparatus for regenerating exhaust-steam	556,964	Mar. 24	2637	620	74	1672
Engström, Axel H., assignor of one-half to G. S. Gandy, Philadelphia, Pa. Device for regenerating exhaust-steam	556,965	Mar. 24	2640	620	74	1672
Enholm, Oscar A., assignor to W. D. Smith, New York, N. Y. Conduit-railway system	555,937	Mar. 10	774	186 187	74	1294
Ennes, Carrie C. (See Ennes, Lorenzo D., assignor.)						
Ennes, John D., Norfolk, Va. Folding bed	555,441	Feb. 25	2928	695	74	1100
Ennes, Lorenzo D., assignor to C. C. Ennes, Lyons, Ind. Well-drilling machine	572,973	Dec. 15	1564	375 376 364	77	1614
Ennis, John E., Duluth, Minn. Builder's scaffold	557,501	Mar. 31	3607	865 866	74	1876
Enos, Alanson T. (See Schmidt, George A., assignor.)						
Enos, J. W., <i>et al.</i> (See West, William H. H., assignor.)						
Enos, John A., Washington, D. C. Gas-generating machine	571,221	Nov. 10	1425	333	77	931
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Planing apparatus	557,327	Mar. 31	3296	791	74	1816
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Sewer-inlet	557,786	Apr. 7	476	114	75	90
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Polishing-machine	558,641	Apr. 21	1979	480	75	406
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Hoop-coiling machine	566,506	Aug. 25	2837	690 691	76	1203
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Planing-machine	567,085	Sept. 1	626	145	76	1401
Ensley, James A., Covington, assignor of one-third to J. B. Simon, Newport, Ky. Nut-lock	561,776	June 9	1290	310	75	1639
Entressangle, Auguste d'. (See Lavoie, Urbain, assignor.)						
Entwistle, Edward B., Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Railway-switch	558,791	Apr. 21	2246	542	75	455
Entwistle, William G., Brooklyn, assignor to A. I. Littlejohn and P. Still, Wellington, New Zealand. Traversing and leveling head for theodolites	561,876	June 9	1455	351	75	1069
Epert, Augustus, Franklin, Pa. Attachment for walking-beams	556,340	Mar. 17	1562	365	74	1453
Epps, Charles, McKinney, Tex. Car-coupling	557,502	Mar. 31	3611	866	74	1777
Epstein, Albert, Berlin, Germany. Metal folding table	561,212	June 2	241	53	75	1414
Epstein, Baer, New York, N. Y. Revolving stand for photographs	573,968	Dec. 29	3399	814	77	1988
Epting, Thomas E., Jennings, assignor of one-half to W. P. Summers, Columbia, S. C. Sash-fastener	561,504	June 2	786	191	75	1519
Erb, Louis A., <i>et al.</i> (See Holmes, Nathan L., assignor.)						
Erb, Louis M., Leavenworth, Kans. Automatic trolley-switch	571,517	Nov. 17	1930	460	77	1040
Erb, Oliver S., Boyertown, Pa. Adjustable handle for bicycles	566,068	Aug. 18	2044	498	76	1038
Erb, Paris, Lancaster, Pa. Car-brake	554,113	Feb. 4	580	131	74	609
Erben, Carl, assignor to E. Bergmann, Berlin, Germany. Electric meter	573,082	Dec. 15	1756	421 422	77	1652
Erben, John. (See Koch and Erben.)						
Erbor, Andrew, assignor of one-half to H. Y. Horn, Coplay, Pa. Pan-lifter	563,756	July 14	881	210	76	181
Erdbrink, Christian, Hanover, Germany. Oil-port lid for railway-car axle-boxes	574,026	Dec. 29	3497	835 836	77	2005
Erdman, John W., <i>et al.</i> (See Beard, George W., assignor.)						
Erickson, Eric E. (See Erickson, Frederick W., assignor.)						
Erickson, Erick H., Minneapolis, Minn. Artificial limb	561,979	June 16	1632	397 398	75	1723
Erickson, Erick H., Minneapolis, Minn. Artificial limb	573,266	Dec. 15	2072	497	77	1709
Erickson, Erick W., Brooklyn, N. Y. Elevator-governor	561,505	June 2	767	192	75	1519
Erickson, Frederick W., Revere, assignor of one-half to E. E. Erickson, Boston, Mass. Conduit-outlet insulator	566,507	Aug. 25	2839	691	76	1203
Erickson, Joseph S., Philadelphia, Pa. Dumping wagon or cart	557,570	Apr. 7	78	29	75	16
Ericson, Lewis E., Boston, Mass. Sole-rounding machine	559,575	May 5	381	92	75	757
Ericsson, John, deceased; G. H. Robinson and C. S. Bushnell, New York, N. Y., executors; said Robinson sole surviving executor. Means for throwing projectiles	561,954	June 9	1592	385 386 634	75	1696
Ericsson, John N., Chicago, Ill. Gravity-motor	573,583	Dec. 22	2676	635 636	77	1839
Erie Malleable Iron Company. (See Hay, John F., assignor.)						
Erikson, Laurence, Evanston, Ill. Coiled spring	568,670	Sept. 29	3429	820	76	1977
Erklin, Alexander, New York, N. Y. Window-frame	565,849	Aug. 11	1635	400	76	940
Erlam, Hodevah H., Digby, Canada. Cooking utensil	554,996	Feb. 18	2115	503	74	932
Erlanger, Charles, Baltimore, Md. Suspenders	558,268	Apr. 14	1345	329	75	271
Ernel, Georges A. N., Brussels, Belgium. Automatic machine for forming heads on rivets, bolts, or screw-blanks	562,594	June 23	2685	649	75	1935
Ernold, Edward, New York, N. Y. Compressor for bottle-corking machines	561,382	June 2	563	141	75	1479
Erne, Edward, <i>et al.</i> (See Deplauty and Wilson, assignors.)						
Ernecke, Adolph, Berlin, Germany. Apparatus for preserving food	564,601	July 28	2396	565	76	489
Ernest, Juan W., Los Angeles, Cal. Extension guard-rail	565,338	Aug. 4	713	171	76	748
Ernest, Juan W., Los Angeles, Cal. Folding table	565,339	Aug. 4	715	171	76	749
Ernst, Maximilian, Cleveland, Ohio. Flag or banner attachment	559,167	Apr. 28	2945	711	75	605
Ernst, Samuel, Glen Elder, Kans. Clothes-pin	567,537	Sept. 8	1399	336	76	1552
Errington, Franklin A., Edgewater, N. Y. Automatic tapping attachment	558,053	Apr. 14	981	241	75	202
Errington, Franklin A., Edgewater, N. Y. Tapping attachment	558,054	Apr. 14	986	241	75	202

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Errington, Franklin A., Edgewater, N. Y. Tapping attachment	558,055	Apr. 14	991	242	75	203
Errington, Franklin A., Edgewater, N. Y. Clutch device	558,372	Apr. 14	1514	{ 371 372 }	75	303
Ertel, Henry O. and S., Williamsport, Pa. Mechanism for operating registers for scoring-machines	556,261	Mar. 10	1392	327	74	1408
Ertel, Samuel. (See Ertel, Henry O. and S.)						
Ertheiler, Philip H., assignor to W. Z. Ertheiler and L. A. Borneman, Philadelphia, Pa. Cigar-box	571,945	Nov. 24	2697	638	77	1203
Ertheiler, Wilhelmina Z., et al. (See Ertheiler, Philip H., assignor.)						
Ervin, Dabney L., Columbus, Miss. Fence	558,164	Apr. 14	1161	284	75	237
Ervin, James M., Cleveland, Ohio. Sectional brick-mold	573,455	Dec. 22	2465	585	77	1799
Esch, H. Samuel. (See Henry, William C., assignor.)						
Esch, H. Samuel, et al. (See Goetz, August C., assignor.)						
Eschemann, William, London, England. Autoharp	566,388	Aug. 25	2601	635	76	1159
Escher, Charles, Jersey City, N. J. Skylight-support	568,194	Sept. 22	2573	619	76	1801
Eschler, Richard T. (See Richter and Eschler.)						
Eschwei, Charles, Long Island City, N. Y. Electric-arc lamp	571,946	Nov. 24	2699	639	77	1203
Eschweiler, Henry, San Francisco, Cal. Carpet-sewing machine	555,264	Aug. 4	599	142	76	725
Esclin, George C., Chicago, Ill. Oil or gas burner for stoves	562,595	June 23	2688	649	75	1935
Eshbach, Jennie A., Ithaca, N. Y. Baby-jumper	558,792	Apr. 21	2246	543	75	455
Eshelman, Charles G. (See Stolz and Eshelman.)						
Eskholme, John W. (See Elliott and Eskholme.)						
Esmond Electric Traction Company. (See Esmond, Frederick C., assignor.)						
Esmond, Ernest R., New York, N. Y., assignor of one-half to W. C. Clarke, Wakefield, R. I. Closed-conduit electric railway	556,311	Mar. 10	1508	{ 350 351 }	74	1428
Esmond, Frederick C., Brooklyn, N. Y., assignor to Esmond Electric Traction Company, of West Virginia. Electric railway	553,979	Feb. 4	320	70	74	563
Esmond, Frederick C., Brooklyn, N. Y., assignor to Esmond Electric Traction Company, of West Virginia. Circuit-controlling device for electric-railway systems	553,981	Feb. 4	324	71, 72	74	564
Esmond, Frederick C., Brooklyn, N. Y., and H. F. Gray, Passaic, N. J. Electric railway	553,980	Feb. 4	321	71	74	564
Esmond, William V., Chicago, Ill. Camera-tripod	556,966	Mar. 24	2641	621	74	1673
Esmond, William V., assignor of one-half to P. H. Bettman, Chicago, Ill. Roll-holding camera	552,633	Jan. 7	221	61	74	44
Esmond, William V., Chicago, Ill., assignor, by mesne assignments, of one-half to Automatic Camera Company, of New York. Film-loader for roll-holders	556,407	Mar. 17	1683	392	74	1476
Espegren, John N., Omaha, Nebr. Rotary pump	571,756	Nov. 24	2359	564	77	1138
Esperen, Arthur F., Tacoma, Wash., assignor, by mesne assignments, to G. W. Burton, trustee. Adjustable shade	565,203	Aug. 4	470	112	76	704
Esperon, William E., Brooklyn, N. Y. Chimney-cowl	564,368	July 21	1928	467	76	397
Espey, John H. (See Hall and Espey.)						
Esplen, William, Liverpool, England. Boiler-furnace	566,389	Aug. 25	2603	{ 635 636 637 }	76	1160
Esberger, John A., and A. W. Geyer, Berlin, Germany. Electrical apparatus for controlling motion of cranes, &c.	561,777	June 9	1291	{ 310 311 }	75	1639
Esselen, Henry M., Boston, Mass. Snow-guard	558,678	Apr. 21	2055	495	75	419
Easer, Heinrich, Aix-la-Chapelle, Germany. Calculating-machine	561,099	June 2	38	10, 11	75	1375
Essick, Samuel V., Yonkers, N. Y. Telegraph-alphabet	563,148	June 30	3687	883	75	2147
Essick, Samuel V., Yonkers, N. Y. Telegraphy	563,149	June 30	3689	883	75	2147
Essick, Walter S., Reading, Pa. Nose-piece gage for eyeglasses	572,106	Dec. 1	17	5	77	1281
Essick, Walter S., assignor to Interchangeable Frameless Spectacle Company, Limited, Reading, Pa. Frameless spectacles or eyeglasses	572,107	Dec. 1	18	5	77	1281
Essick, Walter S., Reading, Pa., and C. S. Rees, Selma, Ala., assignors, by mesne assignments, to Interchangeable Frameless Spectacle Co., Limited, Reading, Pa. Frameless spectacles or eyeglasses	570,625	Nov. 3	384	91	77	709
Essig, Karl R., Leipzig, assignor to Fabrik Lochmannscher Musikwerke Actien-Gesellschaft, Leipzig-Gohlis, Germany. Striker or picker for guitars	555,599	Mar. 3	198	46	74	1166
Estabrook, Alanson C., Northampton, Mass. Device for assembling eyelets	563,757	July 14	882	210	76	182
Estabrook, Alanson C., Northampton, Mass. Device for making covered eyelets	564,102	July 25	2367	565	76	490
Estabrook, Alanson C., Northampton, Mass. Device for finishing covered eyelets	566,850	Sept. 1	196	45	76	1320
Estabrook, Alanson C., Northampton, Mass. Device for making covered eyelets	568,131	Sept. 22	2465	592	76	1781
Estabrook, Alanson C., Northampton, Mass. Device for making covered eyelets	568,940	Oct. 6	378	86	77	73
Estabrook, Alanson C., Northampton, Mass. Device for use in punching from sheets of plastic material	568,941	Oct. 6	381	86	77	73
Estabrook, Alanson C., Northampton, Mass. Assembling and transferring mechanism for eyelets	572,340	Dec. 1	444	105	77	1364
Estabrook, Alanson C., Northampton, Mass. Mirror	573,770	Dec. 22	3020	716	77	1905
Estabrook, Alanson C., assignor to Florence Manufacturing Company, Northampton, Mass. Brush	555,687	Mar. 3	347	80	74	1192
Esterházy, Karl, Presburg, Austria-Hungary. Fastening for straps	553,399	Jan. 21	1646	393	74	336
Estes, John H., Everton, Mo. Car-coupling	565,110	Aug. 4	277	65	76	668
Estes, John H., assignor of one-half to J. W. Springer, Everton, Mo. Washing-machine	571,304	Nov. 10	1570	373	77	960
Estes, John M., Atlanta, Ga. Smoke-consumer	557,093	Mar. 24	2862	684	74	1717
Estes, Nathan C., Leicester, assignor to American Card Clothing Company, Worcester, Mass. Card-setting machine	553,303	Jan. 21	1487	357	74	306
Estey, David M. (See Angell, John W., assignor.)						
Estey Organ Company. (See White, Joseph F., assignor.)						
Estill, Robert M., et al. (See Orr, Thomas J., assignor.)						
Esty Sprinkler Company. (See Esty, William, assignor.)						
Esty, William, Laconia, N. H. Needle-bed for knitting-machines	553,729	Jan. 28	2226	527	74	459
Esty, William, Laconia, N. H. Universal-joint coupling for shafting	565,159	Aug. 4	391	91	76	690
Esty, William, Laconia, N. H. Friction-clutch	566,508	Aug. 25	2841	691	76	1203
Esty, William, Laconia, N. H. Knit fabric for hydraulic hose, &c.	567,308	Sept. 8	1023	245	76	1484
Esty, William, Laconia, N. H., assignor to Esty Sprinkler Company, of New Hampshire. Fire-extinguisher	558,901	Apr. 21	2429	591	75	490
Etheridge, Harry, Pittsburg, Pa., assignor, by mesne assignments, to Gray National Telegraph Company, Richmond, Va. Individual-call system for autographic telegraphs	555,938	Mar. 10	780	{ 187 188 }	74	1295
Etherington, Robert, Paris, Canada. Apparatus for producing raised figures in carpets	568,300	Sept. 22	2747	660	76	1836
Etheridge, Carroll L., Peryear, Tenn. Post-winder and wire-fastener	573,771	Dec. 22	3021	716	77	1905
Ethridge, Ellsworth E., assignor of one-half to S. H. Ethridge, Lanark, Ill. Buckle	557,787	Apr. 7	478	114	75	91
Ethridge, S. H. (See Ethridge, Ellsworth E., assignor.)						
Etly, David J., Louisville, Ky. Advertising device	569,095	Oct. 6	651	150	77	125
Etly, David J., Louisville, Ky. Paper reel and printer	569,096	Oct. 6	652	151	77	125
Etmyre, Edward D., Oregon, Ill. Portable water-tank	573,584	Dec. 22	2678	636	77	1840
Etter, Joseph K., Sand Beach, Pa. Fence	554,441	Feb. 11	1148	287	74	734

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Ettinger, Samuel F. (See Rice and Ettinger.)						
Eubank, Thomas, Little Rock, Ark. Car-door	553,281	Jan. 21	1454	349	74	300
Eubank, Thomas, Little Rock, Ark., assignor to American Railway Equipment Company, East St. Louis, Ill. Truck-end casting	569,964	Oct. 20	2189	350 519 520	77	439
Eubank, Thomas, Little Rock, Ark., assignor to American Railway Equipment Company, East St. Louis, Ill. Draft-rigging	570,987	Nov. 10	1018	237 238	77	856
Euchenhofer, Edward E. (See Weinman and Euchenhofer.)						
Euclid Manufacturing Company. (See Morey, Albert E., assignor.)						
Euge, Edward W., Lebanon, Mo. Horseshoe	562,762	June 23	2964	718	75	1089
Eulenfeld, Ferdinand von, Breslau, Germany. Multicolor-printing apparatus	567,337	Sept. 8	1077	258	76	1494
Eureka Stencil Machine Company. (See Hartog, Stephen D., Jr., assignor.)						
Eurich, Conrad, and G. Donges, Baltimore, Md. Coil-cleaning device for refrigerating apparatus	567,969	Sept. 22	2146	516	76	1723
Euwer, James N., New Castle, Pa. Sash-fastener	559,483	May 5	234	52	75	728
Evans, Arthur G., London, England. Pulley for wires of railway-signals and point-bolts	569,007	Oct. 6	506	114	77	96
Evans, Charles H., assignor of one-half to P. Ebling, New York, N. Y. Dead-plate for furnaces	560,026	May 12	1244	279	75	930
Evans, Charles M., Reading, Pa. Watch-movement holder	562,516	June 23	2528	614 615	75	1906
Evans, Clarence A., Upland, Pa. Car-fan	552,660	Jan. 7	278	75	74	54
Evans, David. (See Rinehart, Ira C. C., assignor.)						
Evans, David E., Baltimore, Md. Connector for electricity-carrying cables	559,168	Apr. 28	2946	711	75	603
Evans, Edgar H. R., Melrose, Cape Colony. Gate	557,305	Mar. 31	3258	781	74	1808
Evans, Ernest D., Bristol, England. Leather-rolling apparatus	564,511	July 21	2219	521	76	440
Evans, Fredric B., Clinton, assignor of one-half to T. Gould, Jr., Boston, Mass. Electric-wire cleat	558,165	Apr. 14	1163	284	75	237
Evans, George H., assignor of one-half to F. McLaughlin, Oroville, Cal. Base chamber or seat for hydraulic elevators	564,062	July 14	1458	342	76	286
Evans, George S., Elsternwick, Victoria. Cable-gripper	553,233	Jan. 21	1353	329	74	282
Evans, John, Denver, Colo. Fire-escape	554,587	Feb. 13	1389	327	74	780
Evans, John H., et al. (See Evans, William, assignor.)						
Evans, Lynden. (See Clarke, Arthur R., assignor.)						
Evans, Lynden. (See Fisher, William, assignor.)						
Evans, Nash J., assignor to Bonsack Machine Company, Salem, Va. Manufacture of cigarettes	569,184	Oct. 13	801	187	77	168
Evans, Richard, Mitchell, S. D., assignor of two-thirds to J. O. Porterfield, Sanborn, and S. M. Porterfield, Traer, Iowa. Cutter-bar for harvesting machinery	563,463	July 7	381	88	76	74
Evans, Robert, et al. (See Evans, William, assignor.)						
Evans, Roland, Washington, D. C. Neck-yoke	573,507	Dec. 22	2549	604	77	1814
Evans, Samuel, and F. J. Morgan, Elkhorn, W. Va. Coal-crusher	559,272	Apr. 28	3143	760	75	641
Evans, Samuel J., Elkhorn, W. Va. Extension-step	571,996	Nov. 24	2785	657	77	1219
Evans, Thomas A., Mount Tabor, Oreg. Filter for quicksand-wells	563,712	July 7	802	192	76	150
Evans, Wallace J. (See Arthur, George H., assignor.)						
Evans, William, Fall River, Mass. Shedding mechanism for looms	554,442	Feb. 11	1149	268	74	734
Evans, William, Philadelphia, Pa. Finishing-roll	572,532	Dec. 8	776	185	77	1441
Evans, William, Philadelphia, Pa. Machine for treating hides, skins, or leather	572,533	Dec. 8	777	186	77	1441
Evans, William, Philadelphia, Pa., assignor to himself, R. and J. H. Evans. Machine for treating hides, skins, or leather	556,813	Mar. 24	2389	562	74	1625
Evans, William L., Jr., Washington, Ind. Rotary steam-engine	552,992	Jan. 14	932	225	74	189
Evard, John E., Indianapolis, Ind. Method of and apparatus for grinding and polishing precious stones	557,980	Apr. 7	810	194	75	153
Evard, John E., Indianapolis, Ind. Machine for setting precious stones in dops for polishing and grinding	557,981	Apr. 7	814	193	75	153
Even, Adam, Port Washington, Wis. Snow-plow	572,747	Dec. 8	1172	281 282	77	1520
Evens, Edward L., Malvern, South Australia. Velocipede	573,456	Dec. 22	2467	585	77	1799
Ferdell, William, Brooklyn, N. Y. Fender for cars	558,793	Apr. 21	2247	543	75	455
Evered, John, Denver, Ind. Bag-holder	553,455	Jan. 21	1729	412	74	352
Everest, Hiram B., Riverside, Cal. Egg-cutter guide and holder	560,402	May 19	1946	444	75	1109
Everest, Laban J., Omaha, Neb., assignor to Everest Railway Signal and Switch Company, Omaha, Neb., Chicago, Ill., and New York, N. Y. Electric-railway signal system	559,576	May 5	383	93	75	757
Everest, Myra L., Clayton, N. Y. Oven-door for cooking stoves or ranges	572,199	Dec. 1	179	44	77	1312
Everest Railway Signal and Switch Company. (See Everest, Laban J., assignor.)						
Everett, Edward H., and A. Samuelson, Newark, Ohio. Conveyor for articles of glass	570,626	Nov. 3	386	91, 92	77	709
Everett Piano Company. (See French, Lamartine M., assignor.)						
Everhard, Henry H., Massillon, Ohio. Steam-boiler furnace	568,752	Oct. 6	72	16	77	17
Everitt, Walter E., Buffalo, N. Y. Toy marble-shooter	552,634	Jan. 7	223	62	74	44
Everline, John E. (See Wagner, Christian, assignor.)						
Evers, Charles H., Cleveland, Ohio. Pulp-washing machine	561,213	June 2	242	58	75	1414
Evers, John H. F., and H. Woerner, New York, N. Y. Chair	555,642	Mar. 3	277	65	74	1180
Evershed, Sydney, London, England. Instrument for measurement of electric resistances	563,917	July 14	1192	280	76	238
Eversman, Ernst A., and D. Wagner, Toledo, Ohio. Foot-box for furnaces	562,596	June 23	2688	650	75	1935
Eversman, John G., Denver, Colo. Envelop-moistener	569,185	Oct. 13	803	187	77	169
Everson, Valentine H., Flatbush, and R. J. Good, Brooklyn, N. Y.; said Good assignor to said Everson. Plate-printing press	563,758	July 14	884	210 211 212	76	182
Evertz, Carl A., Brooklyn, N. Y. Binding for books	554,114	Feb. 4	582	131	74	610
Evetts, James, and F. C. Schurz, Chicago, Ill. Annealing metal castings	570,919	Nov. 10	911	211	77	837
Evits, Charles R., and G. K. Hurlbut, Grand Rapids, Mich. Furniture-finisher	553,806	Jan. 28	2345	558	74	482
Ewart, Mortimer, Mogadore, Ohio. Wire-stretcher	565,160	Aug. 4	392	92	76	690
Ewart, Philo C., Cincinnati, Ohio. Window-sash lock	553,518	Jan. 28	1849	439	74	390
Ewart, Philo C., Cincinnati, assignor of one-half to C. A. Barnard, Cleveland, Ohio. Car-coupling	553,706	Jan. 28	2178	516 517	74	450
Ewart, William D., Chicago, Ill. Steam-boiler	556,140	Mar. 10	1164	273 274	74	1365
Ewbank, George W. (See Ewbank, Wilbur E., assignor.)						
Ewbank, Wilbur E., Guilford, assignor to G. W. Ewbank, Indianapolis, Ind. Machinery for loading wagons	567,765	Sept. 15	1793	430	76	1643
Ewell, Herbert P. (See Burr and Ewell.)						
Ewen, Arthur C., et al. (See Clark and Munger, assignors.)						
Ewers, Eugene, Ardmore, Mo. Lubricating car-wheel	568,528	Sept. 29	3166	762	76	1926

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Ewers, Frank H. (See Pyle, George C., assignor.)						
Ewing, George A., <i>et al.</i> (See Wood, James B., assignor.)						
Ewing, Ira C. (See Day, Sherman W., assignor.)						
Ewing, Renben H., assignor to G. A. Wallace, Mondamin, Iowa. Trace-holder.....	561,048	May 26	3111	717	75	1343
Excelsior Needle Company. (See Dayton, William H., assignor.)						
Excelsior Needle Company. (See Hill, Christian C., assignor.)						
Excelsior Wrapper Company. (See Shadbolt, Helon F., assignor.)						
Exeter Machine Works. (See Le Grand, Augustus L., assignor.)						
Exley, John H., Bradford, England. Apparatus for manufacturing acetylene gas.....	569,708	Oct. 20	1757	417	77	360
Exporters Locked Shell Oyster Company. (See Hirst, Charles S., assignor.)						
Eymann, Walter C., Anaheim, Cal. Cooking stove.....	563,028	June 30	3467	834	75	2106
Eynon, Elizabeth J. and J. R., Philadelphia, Pa. Mixer for eggs, batter, cream, &c.....	553,027	Jan. 14	981	237	74	197
Eynon, James. (See Eynon, William D. and J.)						
Eynon, James and W. D., Philadelphia, Pa. Wheel-tire.....	556,341	Mar. 17	1563	366	74	1453
Eynon, John R. (See Eynon, Elizabeth J. and J. R.)						
Eynon, Thomas M., Philadelphia, Pa. Telltale and indicator for injectors.....	566,154	Aug. 18	2194	533	76	1065
Eynon, Thomas M., Philadelphia, Pa. Apparatus for improving combustion in furnaces.....	569,329	Oct. 13	1063	252	77	219
Eynon, William D. (See Eynon, James and W. D.)						
Eynon, William D. and J., Philadelphia, Pa. Apparatus for rolling rings, &c.....	551,482	Feb. 11	1218	{ 285 286 }	74	746
Eyrich, William R., <i>et al.</i> (See Keller, Solomon, assignor.)						
Ezzell, Fletcher, assignor of one-half to P. T. Shields, San Antonio, Tex. Wrench.....	574,314	Dec. 29	4053	962	77	2107
Ezzell, Jonathan R., McKenzie, Tenn. Corn and seed planter.....	568,434	Sept. 29	2975	715	76	1893
F. A. Whitney Carriage Company. (See Day, Stillman, assignor.)						
F. A. Whitney Carriage Company. (See Holman, Joseph P., assignor.)						
F. B. Fargo & Company. (See Brown, Charles S., assignor.)						
F. B. Fargo & Company. (See Brown and Fargo, assignors.)						
F. B. Fargo & Company. (See Brown and Penn, assignors.)						
F. B. Fargo & Company. (See Penn, William E., assignor.)						
F. G. Otto & Sons. (See Schaub, Ferdinand, assignor.)						
F. S. Webster Company. (See Eager and White, assignors.)						
F. W. Devroe & C. T. Reynolds Company. (See Humphrey, John L., assignor.)						
Faber du Faur, Adolf, Newark, assignor to R. Atherton, Paterson, N. J. Multiplier for looms.....	572,250	Dec. 1	271	66	77	1330
Faber du Faur, Adolf, and A. Gartner, Newark, assignors to R. Atherton, Paterson, N. J. Box-room.....	572,251	Dec. 1	274	66, 67	77	1331
Faber du Faur, Adolph, Newark, N. J. Hydraulic air-compressor.....	561,160	June 2	150	39	75	1395
Faber, Paul. (See White, Albert, assignor.)						
Faber & Schleicher. (See Weimar, Julius, assignor.)						
Fabien, Remy. (See Lagelouze, Gaston, assignor.)						
Fabrik Landwirth Schafflicher Maschinen F. Zimmermann & Co., Actien-Gesellschaft. (See Brutschke, Friedrich, assignor.)						
Fabrik Lochmann'scher Musikwerke Actien-Gesellschaft. (See Essig, Karl R., assignor.)						
Fabrik Lochmann'scher Musikwerke Actien-Gesellschaft. (See Heine, Arthur, assignor.)						
Fabriques des Produits Chimiques de Thann et de Mulhouse. (See Baur, Albert, assignor.)						
Facer Forged Steel Car Wheel and Locomotive Wheel Company. (See Facer, James A., assignor.)						
Facer, James A., assignor to Facer Forged Steel Car Wheel and Locomotive Wheel Company, Philadelphia, Pa. Machine for forging car-wheels.....	553,156	Jan. 14	1213	295	74	243
Facer, James A., assignor to Facer Forged Steel Car Wheel and Locomotive Wheel Company, Philadelphia, Pa. Machine for forging car-wheels.....	564,603	July 28	2398	565	76	490
Fackler, David P., New Brighton, N. Y. Voucher instrument for use between principal and agent.....	552,635	Jan. 7	224	62	74	44
Fackler, Harry C., Astoria, Ill. End-gate for wagons.....	560,983	May 26	2999	691	75	1322
Fackner, Edward, Brooklyn, N. Y. Ball-caster.....	568,241	Sept. 22	2656	636	76	1817
Fagan, John C., Watertown, N. Y. Electric switch.....	553,730	Jan. 28	2227	528	74	459
Fagan, Maurice E., assignor to T. J. Martin, Jr., Philadelphia, Pa. Coin-controlled vending apparatus.....	566,390	Aug. 25	2694	{ 636 637 }	76	1160
Fagan, William, <i>et al.</i> (See Layton, Edward L., assignor.)						
Fagersten, Lorenzo G., and C. F. P. Korssell, Chicago, Ill. Pasteurizing milk.....	566,268	Aug. 18	2366	.....	76	1100
Fahlberg, Constantin, Salbke-Westerhusen, Germany. Making saccharin.....	564,784	July 28	2706	.....	76	546
Fahr, John W., Newark, N. J. Link cuff-button.....	554,483	Feb. 11	1220	286	74	747
Fahrney, William H., Chicago, Ill. Bottle-filler.....	563,464	July 7	383	88, 89	76	74
Fahr, William C., assignor, by mesne assignments, to Elevator Safety Controller Company, Philadelphia, Pa. Locking attachment for elevators.....	565,889	Aug. 18	1716	421	76	973
Faifer, Tony, Chicago, Ill. Temporary binder.....	557,788	Apr. 7	479	114	75	91
Failor, Edward. (See Carns and Failor.)						
Fair, Parker A. (See Bennett, Will F., assignor.)						
Fairbank, Fred L., and C. B. Langley, assignors to Fairbank-Langley Voting Booth Co., Des Moines, Iowa. Voting-booth.....	555,568	Mar. 3	142	34	74	1156
Fairbank, Fred L., and C. B. Langley, assignors to Fairbank-Langley Voting Booth Co., Des Moines, Iowa. Ballot-box.....	555,600	Mar. 3	199	46	74	1166
Fairbank-Langley Voting Booth Co. (See Fairbank and Langley, assignors.)						
Fairbanks Company. (See Jennings, William C., assignor.)						
Fairbanks, Henry, and H. Parker, St. Johnsbury, Vt. Machine for forming bodies from pulp.....	557,197	Mar. 31	3067	735	74	1774
Fairbanks, Leonard F., Hopkinton, Mass. Machine for upsetting wheel-tires.....	554,484	Feb. 11	1221	286	74	747
Fairbanks, Morse & Company. (See Hobart, Frank G., assignor.)						
Fairchild, Ben L., assignor, by mesne assignments, to Mergenthaler Linotype Company, New York, N. Y. Means for justifying type.....	572,974	Dec. 15	1566	376	77	1615
Fairchild, Charles B., New York, N. Y., assignor of one-eighth to D. W. Bosley, Chicago, Ill. Vehicle-brake.....	567,951	Sept. 15	2107	{ 508 509 }	76	1703
Fairchild, Charles B., New York, N. Y., assignor of one-eighth to D. W. Bosley, Chicago, Ill. Vehicle-brake.....	569,150	Oct. 6	747	{ 174 175 }	77	141
Fairchild, Charles B., New York, N. Y., assignor of one-eighth to D. W. Bosley, Chicago, Ill. Vehicle-brake.....	572,989	Dec. 8	1491	358	77	1584
Fairchild, Herman E., Diller, Nebr. Corn-planter.....	564,604	July 28	2400	566	76	490
Fairchild, Newell N., Wyandotte, Mich., assignor to D. H. Burrell & Co., Little Falls, N. Y. Hoop-cutting machine.....	568,435	Sept. 29	2977	{ 715 716 717 }	76	1893
Fairfield, John M., Hartford, Conn. Type-writing machine.....	553,519	Jan. 28	1849	{ 439 440 }	74	390
Fairfield, John M., Hartford, Conn. Indicator device for type-writing machines.....	553,520	Jan. 28	1856	440	74	392
Fairfield, John M., Hartford, Conn. Apparatus for making aligned type-bars for writing-machines.....	553,521	Jan. 28	1860	{ 440 441 }	74	393

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Fairfield, John M., Hartford, Conn. Writing-machine.....	566,301	Aug. 25	2426	595	76	1127
Fairfield, John M., Hartford, Conn. Type-writing machine.....	566,302	Aug. 25	2428	{ 595 596 }	76	1127
Fairfield, John M., assignor to American Writing Machine Company, Hartford, Conn. Type-writing machine.....	565,728	Aug. 11	1436	350	76	903
Fairman, Frank E. (See Hanna and Fairman.)						
Fairman, John F., Axtell, Nebr. Portable elevator.....	565,382	Aug. 4	782	186	76	762
Faitoute, James B., Newark, N. J. Elastic waistband.....	569,411	Oct. 13	1203	253	77	244
Fales, Edward, Winthrop, Mass. Grate for stoves or furnaces.....	574,315	Dec. 29	4054	963	77	2107
Fales, Ferris R., Syracuse, N. Y. Chin-support for laying out the dead.....	573,178	Dec. 15	1918	460	77	1682
Fales, Thomas, Bridgeport, Cal. Car-coupling.....	572,416	Dec. 1	589	140	77	1390
Falk, George, Lacrosse, Wis. Gun-rack.....	554,252	Feb. 11	819	{ 186 187 }	74	671
Falk, Herman W., Milwaukee, Wis. Rail-joint and forming same.....	558,269	Apr. 14	1346	329	75	272
Falk, Herman W., Milwaukee, Wis. Forming joints on railway-track rails.....	558,270	Apr. 14	1347	329	75	272
Falk, Herman W., Milwaukee, Wis. Rail-joint and forming same.....	558,271	Apr. 14	1349	330	75	272
Falk, Herman W., Milwaukee, Wis. Rail-joint and forming same.....	558,373	Apr. 14	1518	372	75	304
Falk, Moses, New York, N. Y. Air-tight package.....	571,112	Nov. 10	1256	292	77	890
Falkenau, Arthur, Philadelphia, and H. L. Hund, Ridley Park, assignors to W. H. Lorimer, and J. W. Birkey, Bristol, Pa. Dyeing machinery.....	560,125	May 12	1434	{ 323 324 }	75	967
Falkenstein, Hermann, Berlin, Germany. Toothpick.....	553,610	Jan. 28	2019	478	74	421
Falkner, William, assignor of one-half to J. McMahon, Connellsville, Pa. Journal-box.....	562,476	Sept. 29	3046	{ 731 732 }	77	1906
Fall, Albert W., Hoboken, N. J. Game apparatus.....	571,997	Nov. 24	2786	637	77	1219
Faller, Mathias, Cincinnati, Ohio. Puzzle.....	566,748	Sept. 1	29	7	76	1286
Fallon, Molly M., Cincinnati, Ohio. Nursing-bottle holder.....	561,877	June 9	1457	351	75	1670
Fallows, Fred and A. J. Moore, Philadelphia, Pa. Sash-fastener.....	559,373	May 5	39	9	75	688
Falls, Charles H., Clarksville, Iowa. Bridle-bit.....	559,273	Apr. 28	3145	760	75	642
Falter, Charles G., Cincinnati, Ohio. Combined carriage and cradle.....	559,445	May 5	172	38	75	715
Faneuf, Ferdinand, Amherst, Mass. Attachment for barbers' chairs.....	557,063	Mar. 24	2812	670	74	1707
Faneuf, George A. (See L'Heureux and Faneuf.)						
Fanner, James, assignor of one-half to O. A. Warren, Buckner, Ark. Wagon wheel and axle.....	561,546	June 2	867	208	75	1534
Fanner, George J., assignor to Fanner Manufacturing Company, Cleveland, Ohio. Chaplet-bolt-heading machine.....	562,813	June 30	3064	{ 741 742 }	75	2025
Fanner, George J., and J. A. Fitzgerald, assignors to Fanner Manufacturing Company, Cleveland, Ohio. Handle for pokers, &c.....	561,100	June 2	45	11	75	1375
Fanner, George J., and J. H. Kirkwood, assignors to Fanner Manufacturing Company, Cleveland, Ohio. Fork.....	561,101	June 2	46	12	75	1376
Fanner Manufacturing Company. (See Fanner, George J., assignor.)						
Fanner Manufacturing Company. (See Fanner and Fitzgerald, assignors.)						
Fanner Manufacturing Company. (See Fanner and Kirkwood, assignors.)						
Fanning, Edgar, Riverhead, N. Y. Weeder attachment for sulky-cultivators.....	564,478	July 21	2169	508	76	430
Fanning, John S. (See Bridges, Christopher M., assignor.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Bammann and Ulrich, assignors.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Blank, Israel, and Herzberg, assignors.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Herzberg, Blank, and Israel, assignors.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Heymann, Bernhard, assignor.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Reyher, Rudolf, assignor.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Rinkel, Friedrich, assignor.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Ulrich, Moritz, assignor.)						
Farbwerke, vormals Meister, Lucius & Brünig. (See Brasch, Richard, assignor.)						
Farbwerke, vormals Meister, Lucius & Brünig. (See Hinsberg, Oscar, assignor.)						
Farbwerke, vormals Meister, Lucius & Brünig. (See Laubmann, Heinrich, assignor.)						
Farbwerke, vormals Meister, Lucius & Brünig. (See Nietzki, Rudolph, assignor.)						
Farbwerke, vormals Meister, Lucius & Brünig. (See Piuetti, Arnaldo, assignor.)						
Farbwerke, vormals Meister, Lucius & Brünig. (See Schiff, Roberto, assignor.)						
Farbwerke, vormals Meister, Lucius & Brünig. (See Storck, Fritz, assignor.)						
Farbwerke, vormals Meister, Lucius & Brünig. (See Ulrich and Gallois, assignors.)						
Fargo, Corydon A., Marysville, Mont. Stamp-stem guide for stamp-mills.....	559,055	Apr. 28	2702	658	75	558
Fargo, Frank B. (See Brown and Fargo.)						
Faris, Frederick F., Wheeling, W. Va. Hearth-bed for fireplaces.....	558,374	Apr. 14	1519	372	75	304
Faris, Richard W., assignor of one-fourth to W. A. Ransom, Jr., Murfreesborough, Tenn. Windlass water-elevator.....	570,702	Nov. 3	530	123	77	736
Farlow, James, assignor of one-half to J. Simpson, Greencastle, Ind. Car-coupling.....	563,465	July 7	385	89	76	75
Farmer Electrical Company. (See Farmer, John R., assignor.)	566,749	Sept. 1	30	8	76	1226
Farmer, Elkin. (See Mayr, George, assignor.)						
Farmer, George P., Montclair, assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Belt-pin.....	559,169	Apr. 28	2946	711	75	605
Farmer, George W., Mooresville, Ind. Music-leaf turner.....	561,778	June 9	1293	311	75	1639
Farmer, Harrington, Castle Gresley, near Burton-on-Trent, England. Filter-press.....	560,295	May 19	1754	{ 399 400 }	75	1075
Farmer, John R., St. Louis, Mo., assignor to Farmer Electric Company, of Missouri. Electric-circuit closer and breaker.....	554,918	Feb. 18	1974	466	74	907
Farmer, John R., assignor to Farmer Electrical Company, St. Louis, Mo. Electric signal-lamp.....	567,338	Sept. 8	1079	{ 259 260 }	76	1494
Farmer, Theodore P., assignor to Lamson Store Equipment Company, Boston, Mass. Measuring device.....	563,850	July 14	1061	250	76	213
Farmer, William W. (See Spencer, William, assignor.)						
Farmers Novelty Company. (See Kenevel, Jeannot W., assignor.)						
Farnell, George T., Bayborough, N. C. Money-changer.....	569,912	Oct. 20	2091	{ 497 498 }	77	421
Farnham, Edward W., Chicago, Ill. Window-curtain and pillow-sham supporter.....	554,619	Feb. 11	1448	340	74	790
Farnham, Edward W., La Grange, Ill. Elevated electric railway.....	564,369	July 21	1989	467	76	397
Farnham, Frank E. (See Stone and Farnham.)						
Farnham, Frank G., Honesdale, Pa. Rotary brush.....	571,559	Nov. 17	2006	477	77	1053
Farnham, Isaiah H., Wellesley, assignor to American Bell Telephone Company, Boston, Mass. Switchboard-signal.....	567,527	Mar. 31	3650	874	74	1883
Farnham, James R., Minneapolis, Minn. Butter-tongs.....	557,982	Apr. 7	816	194	75	154
Farnoff, Jay W., Buffalo, N. Y. Combined meat chopper, mixer, and disintegrator.....	554,021	Feb. 4	401	88, 89	74	578
Farnsworth, Andrew C., assignor, by mesne assignments, to E. C. Ritscher, Chicago, Ill. Ball-bearing axle.....	563,466	July 7	386	89	76	75

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Farnsworth, Andrew C., assignor to E. C. Ritscher, Chicago, Ill. Ball-bearing.....	567,309	Sept. 8	1024	{ 245 246 }	{ 76 }	1484
Farnsworth, Erwin D., Newark, N. J. Switch-operating device	572,292	Dec. 1	361	86	77	1348
Farnsworth, Ezra, Minneapolis, Minn. Bicycle-support	571,433	Nov. 17	1781	425	77	1013
Farnsworth, George. (See Schmid, Charles, assignor.)						
Farnum, William C., Arlington, Vt. Type-writing machine	570,158	Oct. 27	2529	600	77	518
Farnum, William C., Arlington, Vt. Type-writing machine	570,159	Oct. 27	2531	{ 600 601 }	{ 77 }	518
Farnum, William C., Arlington, Vt. Type-writing machine	571,757	Nov. 24	2360	564	77	1138
Farquhar, Frank S., Uniontown, Pa. Combined dough-board and bread-cutting tray	571,349	Nov. 17	1644	391	77	988
Farquharson, Henry C. (See Brinckerhoff and Farquharson.)						
Farquharson, Henry C., assignor to himself and D. F. Root, New York, N. Y. Electric gas-lighting apparatus	553,304	Jan. 21	1490	358	74	307
Farr, Henry H., <i>et al.</i> (See Kennel, Joseph A., assignor.)						
Farrand, Oliver M. (See White, George, assignor.)						
Farrar, Percy S. (See Rice and Farrar.)						
Farrell, Daniel, Jr., Omaha, Nebr. Fire-extinguisher	564,010	July 14	1357	316	76	268
Farrell, James P. (See Kehoe, Michael J., assignor.)						
Farrell, Michael, assignor of one-third to J. L. Cronyn, Buffalo, N. Y. Water-trap for gas-mains, &c	565,970	Aug. 18	1893	460	76	1008
Farrell, Patrick W. (See Taylor, Farrell, and Quebe.)						
Farrell, Philip, <i>et al.</i> (See Sheridan, James H., assignor.)						
Farrell, Sydney E., assignor of one-half to L. Brown, Keok, Iowa. Furnace-door-operating device	556,262	Mar. 10	1394	327	74	1408
Farrell, Thomas A., Chicago, Ill. Music-leaf turner	574,244	Dec. 29	3942	937	77	2066
Farrell, Thomas A., and W. Clancy, Virginia City, Mont. Wagon-brake	573,585	Dec. 22	2679	637	77	1840
Farrington, Claude S. (See Storm, Alfred W., assignor.)						
Farrington, De Witt C., Washington, D. C. Earpiece for telephone-receivers	572,108	Dec. 1	20	5	77	1282
Farrington, Mary A., Boston, Mass. Garment-supporter	571,222	Nov. 10	1427	333	77	932
Farwell, Charles G. (See Willard, John W., assignor.)						
Farwell, Fay O., assignor of one-half to Adams Company, Dubuque, Iowa. Oven-shelf	563,467	July 7	389	90	76	75
Farwell, Fay O., assignor of one-half to Adams Company, Dubuque, Iowa. Front grate ..	573,816	Dec. 22	3095	736	77	1919
Farwell, Willard B., San Francisco, Cal. Water-filter	556,725	Mar. 17	2225	519	74	1581
Fassett, Charles M., <i>et al.</i> (See Keeler, William P., assignor.)						
Fassett, George H., and J. Elder, Chicago, Ill. Flue-scraper	566,973	Sept. 1	423	99	76	1361
Fauber, William H., Chicago, Ill. Door-bell	555,366	Feb. 25	2785	652	74	1073
Faulconer, R. C., trustee. (See Fredrick, William, assignor.)						
Faulconer, R. C., trustee. (See Fredrick and Wachter, assignors.)						
Faulds, John P. (See Beaumont and Faulds.)						
Faulkner, Clay. (See Curl and Faulkner.)						
Faulkner, Hugh, Leicester, England, assignor, by mesne assignments, to F. W. Morgan and R. Wright, Chicago, Ill. Pneumatic tire	571,947	Nov. 24	2700	639	77	1204
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Cotton-seed deliniter	555,040	Feb. 18	2203	{ 525 526 }	{ 74 }	947
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Cotton-seed deliniter	555,309	Feb. 25	2687	629	74	1035
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Cotton-seed deliniter	555,310	Feb. 25	2688	629	74	1036
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Cotton-seed deliniter	555,311	Feb. 25	2690	629	74	1036
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Cotton-seed deliniter	555,312	Feb. 25	2692	630	74	1036
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Cotton-seed deliniter	556,664	Mar. 17	2120	495	74	1558
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Cotton-seed deliniter	556,665	Mar. 17	2122	495	74	1558
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Coating iron or other metallic substances with emery	557,065	Mar. 24	2816	.....	74	1708
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Manufacturing emery blocks	557,503	Mar. 31	3613	.....	74	1877
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Cotton-seed deliniter	557,789	Apr. 7	480	115	75	91
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Cotton-seed deliniter	557,790	Apr. 7	482	115	75	92
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Machine for cleaning cotton-seed	558,650	Apr. 21	2057	496	75	419
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Cotton-seed deliniter	559,056	Apr. 28	2704	658	75	558
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company. Cotton-seed deliniter	560,263	May 19	1699	387	75	1066
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Cotton-seed deliniter	561,660	June 9	1063	{ 256 257 }	{ 75 }	1596
Faulkner, James J., Memphis, Tenn., assignor to Standard Cotton Seed Company, of Arkansas. Cotton-seed deliniter	562,517	June 23	2529	{ 615 616 }	{ 75 }	1906
Faunce, Hiram S. (See Abbenzeller and Faunce.)						
Faure, Elie F. G. H., and J. MacHaffie, Schenectady, N. Y., assignors to General Electric Company, of New York. Electric-arc lamp	567,227	Sept. 8	860	205	76	1455
Faure, Pierre P., Limoges, France. Machinery for decorticating ramie, &c	564,982	Aug. 4	40	8, 9	76	624
Faurot, Charles S., Denver, Colo. Furnace for hot-water heating systems	563,365	July 7	222	50	76	45
Faurot, Charles S., Denver, Colo. Hot-air furnace	563,243	June 30	3845	922	75	2177
Fausel, Charles, Chicago, Ill. Universal joint for dolls	553,643	Jan. 28	2079	490	74	431
Faust, Peter, Brooklyn, N. Y. Mill for grinding liquid substances	566,069	Aug. 18	2045	498	76	1038
Faut, Charles H., Palestine, Ind. Wire-reel	570,920	Nov. 10	912	211	77	837
Favor, Moses P., Hill, N. H. Thill-coupling	569,577	Oct. 13	1498	353	77	299
Favorite Stove and Range Company. (See Van Wie, Peter G., assignor.)						
Farrow, Michael, St. Cloud, Minn. Roller-mill adjustment	571,266	Nov. 10	1507	356	77	947
Fawcett, Charles E. (See Shaffer, William J., assignor.)						
Fawcett, Francis B. (See Webb, Whittall, and Fawcett.)						
Fawcett, Francis B., Kidderminster, assignor to G. M. Whittall, Spring Bank, Wribbenhall, England. Jacquard apparatus	569,749	Oct. 20	1829	434	77	373
Fawcett, Robert C., Carrollton, Ohio. Bicycle-tool	568,404	Sept. 29	2925	704	76	1883
Fawkes, Charles G., assignor to Fawkes Electric Manufacturing Company, Denver, Colo. Mold for battery-plates	567,705	Sept. 15	1692	407	76	1624

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Fawkes Electric Manufacturing Company. (See Fawkes, Charles G., assignor.)						
Fawkes, George W. H. (See Gumphert, George A., assignor.)						
Faxon, William H., <i>et al.</i> (See Taylor, Call, assignor.)						
Fay, Alpheus, Cincinnati, Ohio, and J. McNab, Louisville, Ky. Folding bed	565,536	Aug. 11	1086	261	76	837
Fay, Alpheus, Cincinnati, Ohio, and J. McNab, Louisville, Ky. Bicycle	567,824	Sept. 15	1901	455	76	1664
Fay, Alpheus, Cincinnati, Ohio, and J. McNab, Louisville, Ky. Bicycle	567,825	Sept. 15	1902	456	76	1664
Fay, Charles P. (See Starrett and Fay.)						
Fay, Charles P., assignor to L. S. Starrett, Athol, Mass. Cutting-pliers	568,242	Sept. 22	2657	636	76	1817
Fay, Henry R., Boston, Mass. Engine-valve	564,917	July 28	2912	697	76	584
Fay, John H., London, England. Camera-tripod head	566,451	Aug. 25	2754	668	76	1187
Fay, Joseph A., Jeanerette, La. Apparatus for fumigating cane-juice	564,063	July 14	1460	342	76	286
Fay, Richard C., South Bend, Ind. Plow	562,814	June 30	3067	742	75	2025
Fay, Rimmon C., assignor to Remington Arms Company, Ilion, N. Y. Bicycle-brake	553,339	Jan. 21	1548	370	74	317
Fay, Rimmon C., Ilion, assignor to Remington Arms Company, New York, N. Y. Bicycle-wheel	570,250	Oct. 27	2698	642	77	549
Fay, Stillman M., assignor to J. T. Macdonald, Jr., Boston, Mass. Brake mechanism for elevators	572,789	Dec. 8	1241	300	77	1533
Fay, Thomas J., New York, N. Y. Electric-motor rheostat	556,342	Mar. 17	1563	366	74	1454
Fay, Thomas J., Brooklyn, N. Y., assignor to C. & C. Electric Company, of New Jersey. Rheostat	556,408	Mar. 17	1685	393	74	1477
Fayette, Henry W., assignor to A. M. Pierce, New York, N. Y. Oil-injector for boilers	571,350	Nov. 17	1645	391	77	988
Fayetteville Glove Company. (See Engel, David L., assignor.)						
Fayol, Amédée, Bordeaux, France. Articulated journal-box	558,642	Apr. 21	1982	481	75	406
Fazel, John D., Winfield, Kans. Perpetual calendar for watches or clocks	563,268	July 7	59	15	76	13
Fearis, James H., Connersville, Ind. Envelop-sealer	571,873	Nov. 24	2562	607	77	1176
Fearn, William R., Camden, N. J. Non-refillable bottle	568,243	Sept. 22	2658	636	76	1817
Fearon, James J., assignor to C. A. Daniel, Philadelphia, Pa. Cutting-gage for packing	563,579	July 7	584	136	76	109
Feather, Phineas, and M. J. Clark, Stow, Mass. Regulator for Bramwell feeders	562,220	June 16	2039	493	75	1799
Featherstone, Sarah W., Toledo, Ohio. Game apparatus	555,213	Feb. 25	2510	592	74	1022
Feaz, Ernest A. (See Nicolaus and Delmar, assignors.)						
Febiger, John C., Jr., New Orleans, La. Heating system	552,753	Jan. 7	458	114	74	86
Febiger, John C., Jr., New Orleans, La. Water-closet	556,178	Mar. 10	1336	289	74	1378
Fechner, Otto, Gross-Strelitz, Germany. Locking device for spring safety-hooks	558,056	Apr. 14	994	242	75	204
Feder, Harry, New York, N. Y. Skirt-protector	553,707	Jan. 28	2180	517	74	450
Feder, Harry, New York, N. Y. Station-indicator	571,518	Nov. 17	1932	461	77	1041
Fee, George, <i>et al.</i> (See Skanks, Stephen C., assignor.)						
Fee, John W., assignor of one-half to W. H. Price, Chicago, Ill. Ash-sifter	572,879	Dec. 8	1377	334	77	1561
Feely, Joseph J. (See Negbaur and Feely.)						
Feely, Joseph J., Walpole, assignor to Chandler Adjustable Chair and Desk Company, Boston, Mass. School-desk	561,779	June 9	1294	311	75	1640
Feeney, Bernard, <i>et al.</i> (See Conway, John, assignor.)						
Fegan, James P., Cambridge, Mass., assignor, by mesne assignments, to American Line Grip Company, of Maine. Line-fastener	566,974	Sept. 1	424	99	76	1361
Fehrenbatch, John, Cincinnati, Ohio, assignor of two-thirds to F. C. Weir. Apparatus for making gas	564,512	July 21	2220	521	76	440
Feinberg, Charles L., Brooklyn, N. Y. Box-hinge	554,919	Feb. 18	1975	466	74	907
Feintuch, Morris, San Francisco, Cal. Advice and safety attachment for bank-checks	559,099	Apr. 28	2783	674	75	575
Feist, John, <i>et al.</i> (See Hull, Eugene E., assignor.)						
Feist, John A. (See Hull, Forney, and Feist.)						
Feister, Henry P., Philadelphia, Pa. Toilet-paper-perforating machine	567,460	Sept. 8	1286	312	76	1531
Feistner, William F., Newport, Ky. Lock	570,087	Oct. 27	2409	570	77	495
Feit, Daniel, San Francisco, Cal. Amalgamator	555,569	Mar. 3	142	34	74	1157
Felbel, Jacob, New York, N. Y. Type-writing machine	574,144	Dec. 29	3712	885	77	2045
Feldenheimer, Simon. (See Nusbaum and Feldenheimer.)						
Feldhauser, Philip, <i>et al.</i> (See Walsh, James R., assignor.)						
Feldhoff, Walter F., Chicago, Ill. Puzzle	570,921	Nov. 10	914	212	77	837
Feldman, Gabriel L. (See Philippi, Frank A., assignor.)						
Feldmann, Hermann H., St. Clement, Mo. Fence-machine	554,338	Feb. 11	967	223	74	699
Feldmann, Wilhelm, Nuremberg, assignor to E. Langen's Erben, Cologne, Germany. Apparatus for increasing adhesion of driving-wheels of motor-vehicles for railways	573,772	Dec. 22	3022	716	77	1905
Feldmann, Wilhelm, Nuremberg, assignor to E. Langen's Erben, Cologne, Germany. Elevated railway with suspended vehicle	574,316	Dec. 29	4055	963	77	2108
Felix, Hans E. C. (See Claus, Püttmann, and Felix.)						
Fell, John C., <i>et al.</i> (See Cox and Crowley, assignors.)						
Fellay, Louis J., assignor of one-half to E. D. Martindale, Madison, Kans. Band-securing mechanism for grain-binders	554,588	Feb. 11	1392	327	74	780
Fellay, Louis J., assignor of one-half to E. D. Martindale, Madison, Kans. Grain-binder	567,826	Sept. 15	1903	456	76	1665
Fellows, Charles F. (See Buckner, James, assignor.)						
Fellows, Charles F., West Chelmsford, assignor of one-half to P. A. Dyar, Boston, Mass. Cartridge-loading implement	555,237	Feb. 25	2549	600	74	1029
Fellows, Charles F., West Chelmsford, assignor of one-half to P. A. Dyar, Boston, Mass. Reloading-cartridge implement	556,461	Mar. 17	1792	415	74	1497
Fellows, Olin S., Middletown, N. Y. Device for opening sealed packages	555,939	Mar. 10	785	188	74	1296
Fellows, Olin S., Middletown, N. Y. Key for opening sheet-metal cans	555,940	Mar. 10	787	189	74	1296
Fellows, Olin S., Middletown, N. Y. Can-opening device	555,941	Mar. 10	788	189	74	1297
Fellows, Olin S., Middletown, N. Y. Stamping-press	555,942	Mar. 10	789	189	74	1297
Fellows, Olin S., Middletown, N. Y. Sealed package	557,364	Mar. 31	3363	808	74	1830
Fellows, Olin S., Middletown, N. Y. Device for opening sealed packages	557,365	Mar. 31	3365	808	74	1830
Fellows, Olin S., Middletown, N. Y. Heating and soldering machine	557,366	Mar. 31	3366	808	74	1831
Fellows, Olin S., Middletown, N. Y. Key for opening sealed cans	557,367	Mar. 31	3369	809	74	1831
Fellows, Olin S., Middletown, N. Y. Key for opening sheet-metal cans	557,368	Mar. 31	3370	809	74	1831
Fellows, Olin S., Middletown, N. Y. Key for opening sheet-metal cans	557,369	Mar. 31	3371	810	74	1831
Fellows, Olin S., Middletown, N. Y. Sheet-metal package	568,477	Sept. 29	3047	732	76	1906
Fellows, Olin S., Middletown, N. Y. Sealed package	568,478	Sept. 29	3048	732	76	1906
Fellows, Olin S., Middletown, N. Y. Sealed package	568,479	Sept. 29	3049	733	76	1906

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Felt, Dorr E., Chicago, Ill. Computing-machine	568,020	Sept. 22	2246	{ 542 543 544	76	1741
Felt, Dorr E., Chicago, Ill. Printing and calculating machine	568,021	Sept. 22	2251	{ 544 545 546 547	76	1742
Feltham, James E. (See McLean, James A., assignor.)						
Felthousen, Barrent W., assignor of two-thirds to W. B. and G. A. Neeves, Milwaukee, Wis. Radiator	563,029	June 30	3468	834	75	2106
Felthousen, John H., Springfield, Ohio. Bicycle	561,214	June 2	243	58	75	1415
Feltner, John F. E., Leadville, Colo. Hose-coupling	554,666	Feb. 18	1537	363	74	823
Felton, Thomas W., Addington, New Zealand. Tube-plate-hole cutter	558,583	Apr. 21	1886	457	75	389
Felts, William B., assignor of one-half to J. Dorley, U. S. Army. Percussion-fuse	561,506	June 2	788	192	75	1519
Fendler, John C., St. Louis, Mo. Harness-strap hook	563,851	July 14	1063	250	76	214
Fenlon, Thomas P., Jr. (See Witham, George G., assignor.)						
Fenn, Albert P., et al. (See Hoag, George E., assignor.)						
Fennell, Francis N. (See Crossley, Charles, assignor.)						
Fennell, Timothy H., East Hartford, Conn., and C. L. Woodward, Syracuse, N. Y. Rail-way-gate	564,983	Aug. 4	41	9	76	625
Fenner, George P., New London, Conn. Printing-press	572,478	Dec. 1	679	163	77	1408
Fennessy, Emma H. (See Fennessy, Frank R., assignor.)						
Fennessy, Frank R., assignor to E. H. Fennessy, New York, N. Y. Oil-supply tank	558,643	Apr. 21	1983	491	75	407
Fennessy, Frank R., assignor to E. H. Fennessy, New York, N. Y. Gas-burner	558,902	Apr. 21	2432	592	75	491
Fenno, Zeph, Washington, D. C. Water-filter	557,370	Mar. 31	3373	810	74	1832
Fensky, Gustav, Chesterton, Ind. Protector for railway defect-cards	573,324	Dec. 15	2193	525	77	1731
Fensom, John, Toronto, Canada. Guide-sheave for elevators	561,215	June 2	244	59	75	1415
Fenton, Ephraim H., Kansas City, Mo. Box-fastener	555,688	Mar. 3	348	80	74	1192
Fenton, Green, Cleveland, Ohio. Combined stove-cover and griddle	561,507	June 2	790	192	75	1520
Fenton Metallic Manufacturing Company. (See Stevens, Paul W., assignor.)						
Fenwick, Albert D., assignor of three-fourths to F. W. Johnston, Philadelphia, Pa., and J. Reece, Boston, Mass. Collar	555,943	Mar. 10	791	190	74	1297
Fenwick, Albert D., assignor to Fenwick Collar and Cuff Machine Company, Philadelphia, Pa. Machine for folding and pressing collars and cuffs	563,950	July 14	1251	{ 293 294 295	76	247
Fenwick Collar and Cuff Machine Company. (See Fenwick, Albert D., assignor.)						
Ferber, Anthony, assignor to Sidney Shepard & Company, Buffalo, N. Y. Milk-bucket	567,679	Sept. 15	1650	798	76	1616
Ferg, John A., assignor of one-half to J. A. Smith, Norfolk, Va. Puzzle-stopper for con-fectiory-bottles	554,920	Feb. 18	1976	467	74	907
Fergesen, Daniel, Rockford, Ill. Elevating-truck	561,161	June 2	152	40	75	1395
Fergg, Joseph. (See Siegel, Frederick W., assignor.)						
Ferguson, Alfred D., Odessa, Mo. Valve for steam-engines	564,274	July 21	1631	428	76	369
Ferguson, Alfred D., and R. W. Whitney, Odessa, Mo. Reversing-valve for engines	554,667	Feb. 18	1539	363	74	823
Ferguson, Charles W., Janesville, Wis. Switch-operating device for railways	554,485	Feb. 11	1223	287	74	747
Ferguson, Daniel W., Greeley, Iowa. Device for supporting bicycle or other wheels dur-ing construction or repair	566,851	Sept. 1	197	45	76	1320
Ferguson, Edmund M., Pittsburg, Pa. Apparatus for shaping metals	570,010	Oct. 27	2267	539	77	467
Ferguson, George, Boston, Mass. Tack-driving machine	562,518	June 23	2535	616	75	1907
Ferguson, George, Boston, Mass. Lasting machine	569,017	Oct. 6	521	{ 119 120	77	99
Ferguson, Lewis R., Harvey, Ill. Cartridge-carrier	558,057	Apr. 14	994	242	75	204
Ferguson, Lyman, Ithaca, N. Y. Extension-ladder hook	552,336	Jan. 7	226	62	74	44
Ferguson, Thomas B., Jr., Springfield, Mass. Machine for wiring fence-pickets	553,188	Jan. 14	1276	{ 308 309	74	253
Ferguson, Walter T., Bickley Mills, Va. Portable photographic dark room	571,085	Nov. 10	1195	281	77	889
Ferguson, William C., Jacksonville, Fla. Railway-rail	572,534	Dec. 8	779	166	77	1441
Ferguson, William H., St. Louis, Mo. Folding-partition box	557,371	Mar. 31	3375	810	74	1832
Ferguson, William J., assignor of one-half to W. G. H. Stump, Baltimore, Md. Automatic oiler	555,475	Feb. 25	2988	712	74	1111
Ferguson, William J., assignor of one-half to W. G. H. Stump, Baltimore, Md. Lubricator	563,224	June 30	3621	915	75	2172
Ferguson, William J., assignor of one-half to W. G. H. Stump, Baltimore, Md. Lubricator	574,352	Dec. 29	4121	978	77	2120
Fergusson, Alan R., Baltimore, Md. Roller-skate	555,501	Mar. 3	30	8	74	1136
Fergusson, Henry A., Jersey City, N. J. Bolt-cutting machine	571,434	Nov. 17	1782	425	77	1013
Fergusson, William P., Hamilton, Tex. Knee-pad	563,468	July 7	390	90	76	75
Ferling, Herman W., and E. Heim, Little Rock, Ark. Harrow	568,244	Sept. 22	2659	637	76	1818
Fernald, Alexander B. (See Haines and Fernald.)						
Fernald, George W., Needham, assignor to Austin & Eddy, Boston, Mass. Sash-balance	565,612	Aug. 11	1221	294	76	862
Fernald, Hiram V., Portland, Me. Stove attachment	554,997	Feb. 18	2117	503	74	933
Fernandes, Louis J. A., New York, N. Y. Bottle and stopper	573,773	Dec. 22	3024	717	77	1906
Fernandez, Manuel, Los Angeles, Cal. Car-fender	560,849	May 26	2778	637	75	1280
Fernley, James E., and W. F. Charleson, Aurora, Ill. Air-brake coupling	553,498	Jan. 21	1813	431	74	367
Feroe, Alfred E., Madalin, assignor to Ferroe Brothers & Conway, Troy, N. Y. Racking apparatus for barreling beer	566,898	Sept. 1	278	64, 65	76	1335
Feroe, Alfred E., Madalin, assignor to Ferroe Brothers & Conway, Troy, N. Y. Process of and apparatus for treating malt liquors	568,132	Sept. 22	2467	592	76	1721
Feroe, Alfred E., Madalin, assignor to Ferroe Brothers & Conway, Troy, N. Y. Apparatus for barreling and bunging beer	568,133	Sept. 22	2472	{ 592 593	76	1782
Feroe Brothers & Conway. (See Ferroe, Alfred E., assignor.)						
Ferrall, Thomas R., Torrington, Conn. Snatch-block	560,134	May 12	1449	326	75	971
Ferree, Samuel P. (See Ferree, William A., assignor.)						
Ferree, William A., assignor to S. P. Ferree, Brooklyn, N. Y. Coin-controlled vending-machine	557,306	Mar. 31	3260	782	74	1809
Ferree, William A., assignor to S. P. Ferree, Brooklyn, N. Y. Coin-controlled vending-machine	567,128	Sept. 8	704	{ 164 165	76	1427
Ferrell, Augustus C., and T. J. Hamrick, Carroll, assignors of one-third to S. P. Veasey, Garden Valley, Tex. Brace for heel-sweeps	552,829	Jan. 7	620	151	74	117
Ferres, Ainslie W., Memphis, Tenn., assignor to W. M. Van Nortwick and T. R. Troendle, Batavia, Ill. Veneer-dish machine	570,088	Oct. 27	2412	{ 570 571 572	77	496
Ferres, Jeffrey T., Anderson, Ind. Packing and shipping box	563,918	July 14	1193	281	76	238
Ferrill, James G., Batesville, Ark. Rotary harrow	563,150	June 30	3691	884	75	2148
Ferris, George D., St. Louis, Mo. Minnow-bucket	553,456	Jan. 21	1731	413	74	352
Ferris, Henry L., Harvard, Ill. Hay-sling	558,468	Apr. 21	1731	418	75	360
Ferris, Henry L., Harvard, Ill. Wire chain-link	562,519	June 23	2536	616	75	1907

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Ferris, Henry L., Harvard, Ill. Link for metal chains	568,245	Sept. 22	2660	637	76	1818
Ferris, Henry L., Harvard, Ill. Harrow-frame	569,913	Oct. 20	2095	498	77	422
Ferris, Henry L., Harvard, Ill. Fence-post	573,508	Dec. 22	2549	604	77	1814
Ferris, Henry L., assignor to Hunt, Helm & Ferris, Harvard, Ill. Door-hanger	569,965	Oct. 20	2190	520	77	440
Ferris, Hiram L., Osage City, Kans. Stovepipe-damper	567,025	Sept. 1	513	121	76	1379
Ferris, James V. R. (See Washburn and Ferris.)						
Ferris, John F., and W. M. Thomas, North English, Iowa. Gate	567,086	Sept. 1	628	145	76	1401
Ferris, William H., and J. P. Hart, Cadwallader, Pa. Unchecking-hook	561,780	June 9	1296	311	75	1640
Ferry, Thomas, Wilmington, Del. Street-sweeper	555,944	Mar. 10	793	191	74	1297
Fertig, Samuel S., Titusville, Pa. Rotary engine	560,314	May 19	1790	407	75	1081
Fesler, Frank E., Chicago, Ill. Buckle	556,743	Mar. 24	2260	528	74	1602
Fessenden, Robert, <i>et al.</i> (See Cary, Nathaniel S., assignor.)						
Fessenden, William N., Candor, N. Y. Fountain marking-pen	555,763	Mar. 3	463	110	74	1213
Fettic, Frank. (See Fowler and Pettic.)						
Fey, William F., Cincinnati, Ohio. Combined cooling, condensing, and sterilizing apparatus	569,750	Oct. 20	1831	435	77	374
Fick, Thomas A., Paris, Canada. Snow-plow	561,980	June 16	1634	398	75	1724
Fickas, Benjamin A. (See Nilson, Peter F., assignor.)						
Fickes, Isaac N., Holland, Kans. Fruit-gatherer's staging	558,166	Apr. 14	1163	285	75	237
Fiechter, Louis B., Basle, Switzerland. Filtering material or fabric	570,219	Oct. 27	2641	625	77	539
Fiedler, Wilhelm, Charlottenburg, Germany. Electrical railway-signal	555,601	Mar. 3	200	46, 47	74	1167
Field, Arthur C., Chicago, Ill. Means for attaching cranks to shafts	553,400	Jan. 21	1646	394	74	336
Field, Charles H., Providence, R. I. Gem-setting machine	562,292	June 16	2157	524 } 525 }	75	1820
Field, Edward A., Chicago, Ill. Oil-filter	554,815	Feb. 18	1793	421	74	874
Field, Edward A., Chicago, Ill. Steam heating apparatus	557,530	Mar. 31	3656	875	74	1884
Field, Frank, assignor to E. H. Stafford Company, Muskegon, Mich. Type-writer desk	569,914	Oct. 20	2096	499	77	422
Field, Jesse A., Dunkirk, N. Y. Molding-machine	560,404	May 19	1948	445	75	1109
Field, Nels A., Lark, Iowa. Grain-measuring device	566,155	Aug. 18	2195	533 } 534 }	76	1065
Field, Samuel B., Scotch Plains, N. J. Toy	561,781	June 9	1297	312	75	1640
Field, Stephen D., Yonkers, N. Y. Apparatus for controlling motors	566,070	Aug. 18	2046	498 } 499 }	76	1039
Field, Stephen D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Electric motor	552,521	Jan. 7	32	10	74	9
Field, Stephen D., Stockbridge, assignor to American Bell Telephone Company, Boston, Mass. Telephone-service register	558,167	Apr. 14	1165	285	75	238
Field, Stephen D., Stockbridge, assignor to American Bell Telephone Company, Boston, Mass. Call-counter for telephones	558,168	Apr. 14	1167	285	75	238
Field, Stephen D., Stockbridge, assignor to American Bell Telephone Company, Boston, Mass. Telephone	558,584	Apr. 21	1887	457	75	389
Field, Stephen D., Stockbridge, assignor to American Bell Telephone Company, Boston, Mass. Telephone-receiver	560,403	May 19	1947	445	75	1109
Field, Stephen D., Stockbridge, assignor to American Bell Telephone Company, Boston, Mass. Electromagnetic signal-receiving instrument	571,351	Nov. 17	1646	391 } 392 }	77	989
Field, Wallace L., West De Pere, Wis. Transplanter	554,669	Feb. 18	1543	364	74	824
Field, William S. M., and A. R. Warner, Philadelphia, Pa. Coin-controlled blow-testing apparatus	563,919	July 14	1196	281	76	239
Fiedler, George B., <i>et al.</i> (See Johnston, Abner, assignor.)						
Fielding, Charles W., London, England, and L. B. Walker, Elizabeth, N. J. Electrolytic apparatus	566,673	Aug. 25	3079	751	76	1250
Fielding, Maurice D. (See Lugin, Henry A., assignor.)						
Fielding, Philip H., New York, N. Y. Electrical connector	556,967	Mar. 24	2642	621	74	1673
Fielding, William, Lewiston, Me. Butter-mold	560,202	May 19	1578	357	75	1045
Fields, Carl B., Merced, Cal. Bicycle	566,568	Aug. 25	2927	714 } 715 }	76	1221
Fields, George W., and V. A. Boynton, Shannon City, Iowa. Twine-holder	574,317	Dec. 29	4056	963	77	2108
Fields, Samuel L., Wilmington, Ohio, assignor to A. Scott, Wilmington, Ohio, and Decatur, Ill. Fastener for sweat-pads	554,668	Feb. 18	1542	364	74	824
Fierheller, George, Markham, Canada. Harness	553,114	Jan. 14	1148	279	74	230
Fifield, Walter L., Augusta, Me. Drilling apparatus	555,442	Feb. 25	2931	696	74	1100
Filer & Stowell Company. (See Wilkin, Theodore S., assignor.)						
Filkins, Charles W., Riverside, Cal. Thill-coupling	560,135	May 12	1450	327	75	971
Fillebrown, Thomas, Boston, Mass. Easel	571,068	Nov. 10	1157	270	77	882
Filmer, John, <i>et al.</i> (See Gartner, Alfred, assignor.)						
Filmer, Reginald H., London, England. Construction of folding boxes made of card-board, &c.	561,508	June 2	790	192 } 193 }	75	1520
Filtz, Georges, assignor to La Société des Moteurs et Voitures Automobiles Système Filtz, Paris, France. Rotary motor	562,382	June 23	2317	562 } 563 }	75	1866
Finch, Frederick C., assignor to Finch Manufacturing Company, Cleveland, Ohio. Boiler-cleaner	565,676	Aug. 11	1343	326	76	886
Finch, James C., Oswego, Kans. Match box or safe	564,188	July 21	1691	395	76	344
Finch Manufacturing Company. (See Finch, Frederick C., assignor.)						
Finkel, William H., administrator. (See Wild, James.)						
Findlay, John, Boston, Mass. Machine for making seamless tapered tubes	557,791	Apr. 7	484	115	75	92
Fine, William R., Newport, Tenn. Car-coupling	552,608	Jan. 7	182	50, 51	74	36
Finfrock, Ira E. (See Lippy, Finfrock, Rinehart, and Francis.)						
Fingal, Charles A., Chicago, Ill. Tobacco-pipe	556,666	Mar. 17	2123	496	74	1559
Finger, Gilbert H., New York, N. Y., and W. J. Ford, Leicester, England. Leg-covering	571,918	Nov. 24	2655	639	77	1193
Finigan, Thomas, Paterson, N. J. Machine for manufacturing twine and yarn	564,275	July 21	1832	429	76	369
Fink, Christian, Philadelphia, Pa. Car-fender	569,330	Oct. 13	1064	252	77	220
Finkler, Dittmar, Bonn, Germany. Obtaining albumen	567,706	Sept. 15	1695		76	1625
Finlay, Albert J., and C. Wilson, Silverton, Ore. Steam-cooker	565,340	Aug. 4	716	172	76	749
Finlay, Robert G., assignor to Electric Flameless Gas Stove Company, New York, N. Y. Gas-stove for cooking, &c.	554,253	Feb. 11	820	187	74	671
Finlayson, Alexander W., assignor of one-third to R. W. Renton, Detroit, Mich. Steam-generator	553,982	Feb. 4	326	72	74	564
Finley, Avaré E., Everett, Mass. Railway switching apparatus	570,988	Nov. 10	1020	238	77	817
Finley, Frederick B., Cincinnati, Ohio. Carrying attachment for bicycles	568,085	Sept. 22	2387	576	76	1767
Finley, James R., Delphi, Ind. Sash-fastener	567,228	Sept. 8	862	206	76	1456
Finley, Robert L., assignor of two-thirds to J. F. Sadler, Bonham, Tex. Axle-skein	565,677	Aug. 11	1344	327	76	886
Finn, Oliver B., Philadelphia, Pa. Car-fender	563,951	July 14	1259	295 } 296 }	76	249
Finne, Theodor, Wittenberge, assignor to A. Heusch & Söhne, Aachen, Germany. Scraping-brush for cleansing	554,339	Feb. 11	969	224	74	699

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Finney, George S., Chicago, Ill. Dish-cleaner	555,570	Mar. 3	144	34	74	1157
Finot, Philip, assignor of one-half to J. C. Lebrecht, St. Louis, Mo. Syringe	553,234	Jan. 21	1355	330	74	283
Finson, Charles H., Pittsfield, Me., assignor of one-half to H. L. Winslow, Brooklyn, N. Y. Trolley-pole and connection	555,571	Mar. 3	145	34, 35	74	1157
Finucane, Cornelius, Rochester, N. Y. Kneeling-bench	556,499	Mar. 17	1863	434	74	1511
Fire Extinguisher Manufacturing Company. (See Robinson and Steck, assignors.)						
Fire Extinguisher Manufacturing Company. (See Steck, Ernst F., assignor.)						
Firm, Joseph L., Jersey City, N. J. Folding couch	563,580	July 7	585	136	76	110
Firm, Joseph L., Jersey City, N. J., assignor to Goss Printing Press Company, Chicago, Ill. Printing-press	556,409	Mar. 17	1687	{ 393 394 }	{ 74 74 }	{ 1477 1477 }
Firmenich, George. (See Firmenich, Joseph and G.)						
Firmenich, Joseph and G., Chicago, Ill. Apparatus for preparing grain in manufacturing starch	560,699	May 26	2512	576	75	1229
Firmstone, Harry. (See Markley, John A., assignor.)						
Firnhaber, Charles W., et al. (See Beran, Albert, assignor.)						
Firth, John F., Carlisle, Ky. Fertilizer-distributor for tobacco-planting	560,850	May 26	2780	637	75	1280
Firth, William. (See Ulbrich, Richard C., assignor.)						
Fischer, Adolph, assignor of three-fourths to I. and S. Durlach, Brooklyn, N. Y. Ash-can.	562,176	June 16	1969	477	75	1726
Fischer, Albert, assignor to American Tap Bush Company, Detroit, Mich. Tap and bushing	573,867	Dec. 29	3199	762	77	1951
Fischer, August. (See Lang and Fischer.)						
Fischer, Carl, Bremen, Germany. Earth-closet	553,060	Jan. 14	1042	253	74	209
Fischer, Charles S. (See Fischer, Torquato T., assignor.)						
Fischer, Ellen J., Philadelphia, Pa. Enameling marble	552,993	Jan. 14	933	-----	74	189
Fischer, Emil, Berlin, Germany. Chloro-theophyllin and preparing it	559,347	Apr. 28	3278	-----	75	666
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Making xanthin derivatives	569,489	Oct. 13	1318	-----	77	265
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Making derivatives of xanthin	569,490	Oct. 13	1320	-----	77	265
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Obtaining tetra-alkyl uric acid	571,352	Nov. 17	1653	-----	77	990
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Bromo-theophyllin and making same	571,353	Nov. 17	1654	-----	77	990
Fischer, Ferdinand, Chesaning, Mich. Wagon	570,467	Nov. 3	47	11	77	647
Fischer, Frederick J. W., assignor to Eagle Pencil Company, New York, N. Y. Pen	563,031	June 30	3471	834	75	2107
Fischer, Frederick J. W., assignor to Eagle Pencil Company, New York, N. Y. Pencil-sharpener	564,149	July 14	1610	377	76	317
Fischer, George A., Quincy, Ill. Kitchen-cabinet	552,522	Jan. 7	35	10	74	9
Fischer, George P., Sheridanville, Pa. Rotary engine	566,156	Aug. 18	2197	534	76	1066
Fischer, Henry, and L. Schantz, Manchester, N. H. Sink-outlet	563,030	June 30	3471	834	75	2107
Fischer, Hermann C. (See Meisel and Fischer.)						
Fischer, John M., De Soto, Mo. Folding wagon-body	569,450	Oct. 13	1258	{ 295 296 }	{ 77 77 }	{ 254 254 }
Fischer, John W., Baltimore, Md. Upright-piano action	557,261	Mar. 31	3177	762	74	1793
Fischer-Leaf Company. (See Gohmann and Terstegge, assignors.)						
Fischer, Max, Denver, Colo. Match-igniting and cigar-cutting device	572,942	Dec. 8	1497	{ 358 359 }	{ 77 77 }	{ 1585 1585 }
Fischer, Paul. (See Theurer and Fischer.)						
Fischer, Sigismund, Brooklyn, assignor of one-tenth to V. D. Brenner, New York, N. Y. Electric clock	555,313	Feb. 25	2693	{ 630 631 }	{ 74 74 }	{ 1057 1057 }
Fischer, Theodor. (See Palencsar and Fischer.)						
Fischer, Torquato T., New York, N. Y. Piano attachment	564,370	July 21	1991	467	76	397
Fischer, Torquato T., assignor to C. S. Fischer, New York, N. Y. Piano-case	553,904	Feb. 4	184	39	74	539
Fish, Charles A., Syracuse, N. Y. Device for measuring liquids	559,794	May 12	769	185	75	842
Fish, David W., and J. J. Joyce, Dolgeville, N. Y. Plumb and level	557,983	Apr. 7	817	194	75	154
Fish, John A., Melrose, Mass. Hot-water or steam boiler	553,644	Jan. 28	2080	490	74	432
Fish, Luther S., Cleveland, Ohio. Car-brake	552,609	Jan. 7	184	51	74	36
Fish, Philmer C., and H. T. Sullivan, St. Joseph, Mo. Rotary mechanical directory and advertising medium	557,571	Apr. 7	79	20	75	16
Fishbaugh, Rufus H., Markle, Ind. Check-row corn-planter	566,975	Sept. 1	425	{ 99 100 }	{ 76 76 }	{ 1362 1362 }
Fishburne, W. Nevins. (See Appleman, Louis D., assignor.)						
Fisher, Abel, Wellsville, Ohio. Pneumatic painting-nozzle	554,921	Feb. 18	1977	467	74	907
Fisher, Alice M., et al. (See Fisher, Robert J., assignor.)						
Fisher, Alvin L., Elizabeth, N. J., assignor to Consolidated Fruit Jar Company, New York, N. Y. Cap for bottles	558,375	Apr. 14	1520	372	75	304
Fisher, Charles, San Francisco, Cal. Gentleman's storm-legging	562,784	June 23	3003	725	75	1996
Fisher, Charles J., Murphysborough, Ill. Sectional railway-rail	560,487	May 19	2094	479	75	1136
Fisher, Daniel A., Pittsburg, assignor to A. W. Cadman, Edgewood Park, Pa. Saw filing and setting machine	562,383	June 23	2319	{ 563 564 }	{ 75 75 }	{ 1866 1866 }
Fisher, F. M., et al. (See Rothschild, Adolph, assignor.)						
Fisher, Frederick G., Battle Creek, Mich. Perfuming device	554,115	Feb. 4	583	131	74	610
Fisher, George F., North Tonawanda, N. Y. Guard	552,610	Jan. 7	186	51	74	37
Fisher, Harry, Neoga, Ill. Price-scale	557,064	Mar. 24	2814	670	74	1707
Fisher, Henry J., London, England. Electric-arc lamp	565,971	Aug. 18	1895	460	76	1009
Fisher, Howard D., Reading, Pa. Car-fender	569,624	Oct. 20	1577	371	77	329
Fisher, James, New Orleans, La. Apparatus for feeding bagasse-furnaces	564,918	Jan. 28	2915	{ 698 699 }	{ 76 76 }	{ 585 585 }
Fisher, John E., Frankfort, Ohio. Band-cutter and feeder	567,587	Sept. 15	1501	359	76	1586
Fisher, Lewis H., Walpole, Mass. Heat or draft regulator	569,186	Oct. 13	803	188	77	169
Fisher, Michel J., Little Falls, N. Y. Handle-bar connection for bicycles	560,700	May 26	2513	577	75	1229
Fisher, Robert C., et al. (See Marquart, Rudolf, assignor.)						
Fisher, Robert J., Athens, Tenn. Type-writing machine	569,491	Oct. 13	1322	311	77	266
Fisher, Robert J., Athens, Tenn. Type-writing machine	569,626	Oct. 20	1583	{ 373 374 }	{ 77 77 }	{ 330 330 }
Fisher, Robert J., Athens, Tenn. Type-writing machine	569,627	Oct. 20	1587	{ 374 375 }	{ 77 77 }	{ 331 331 }
Fisher, Robert J., Athens, Tenn. Type-writing machine	572,535	Dec. 8	780	{ 186 187 }	{ 77 77 }	{ 1441 1441 }
Fisher, Robert J., Athens, Tenn. Type-writing machine	573,868	Dec. 29	3200	{ 762 763 }	{ 77 77 }	{ 1952 1952 }
Fisher, Robert J., assignor to A. M. Fisher, T. Stackpole, and W. M. Nixon, Athens, Tenn. Type-writing machine	569,625	Oct. 20	1578	{ 371 372 373 }	{ 77 77 77 }	{ 329 329 329 }
Fisher, Susan D. (See Fisher, William T., assignor.)						
Fisher, Sylvanus A., Geneseo, Ill. Kettle	556,884	Mar. 24	2507	591	74	1648

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Fisher, William, assignor to L. Evans, Chicago, Ill. Electric cigar-lighter	559,939	May 12	1085	241	75	899
Fisher, William, assignor to L. Evans, Chicago, Ill. Combined toilet-paper holder and advertising device	573,586	Dec. 22	2682	637	77	1840
Fisher, William C., assignor to Russell Manufacturing Company, Middletown, Conn. Braiding-machine	552,994	Jan. 14	934	226	74	189
Fisher, William N. (See Foster and Fisher.)						
Fisher, William S. (See Long and Fisher.)						
Fisher, William T., assignor to S. D. Fisher, Broad Axe, Pa. Fastener for window-shutters	553,499	Jan. 21	1814	431	74	367
Fisk, Bradley W., and W. M. Camp, Sedro, Wash. Rotary engine	566,303	Aug. 25	2432	596	76	1128
Fisk, Charles H., Washington Court-House, Ohio. Device for suspending and supporting trolley-wires	564,984	Aug. 4	42	10	76	625
Fisk, Henry M., Austin, Ill. Telephone-switchboard	559,348	Apr. 28	3279	791	75	666
Fisk, James A., Avilla, Ind. Extension-ladder	565,444	Aug. 11	887	210	76	801
Fisk, Marston, assignor of two-thirds to S. R. Tuggle and C. H. Burns, Houston, Tex. Ratchet-wrench	567,766	Sept. 15	1795	430	76	1644
Fisk, William E. (See Gaynor and Smith, assignors.)						
Fiske, Bradley A., U. S. Navy. Telescope-sight for guns	556,048	Mar. 10	1001	239	74	1335
Fiske, Bradley A., U. S. Navy. Telescopic sight	558,058	Apr. 14	997	243	75	204
Fiske, Bradley A., U. S. Navy. Device for regulating motive power	558,724	Apr. 21	2125	512	75	433
Fiske, Bradley A., U. S. Navy. Telescopic sight	561,383	June 2	564	142	75	1470
Fiske, Jonathan P. B., Alliance, Ohio, and H. A. Littlefield, Lynn, Mass; said Littlefield assignor to said Fiske. Armature for electric motors and dynamos	559,692	May 5	576	135	75	792
Fitch, Derick H., Cazenovia, N. Y. Telephoning	559,274	Apr. 28	3145	760	75	642
Fitch, Eugene, East Molesey, England. Type-writing machine	570,389	Oct. 27	2990	707	77	603
Fitch, Frank R., et al. (See Whitacre, Richard E., assignor.)						
Fitch, James B. (See Buck, Phillip J., assignor.)						
Fitch, Thaddeus S., assignor of two-thirds to H. L. McKellops, San Francisco, Cal. Fruit-holding pocket	564,605	July 28	2402	566	76	490
Fitch, Walter H., Indianapolis, Ind. Rail-joint	558,272	Apr. 14	1351	330	75	272
Fittler, Daniel, Philadelphia, Pa. Tuning-key	554,254	Feb. 11	822	187	74	672
Fitton, John R. (See Howard and Fitton.)						
Fitts, George H., et al. (See Manning, Daniel F., assignor.)						
Fitts, George H., et al. (See McCreary, Edward, assignor.)						
Fittz, William B., assignor to West Boylston Manufacturing Company, West Boylston, Mass. Loom-temple	560,701	May 26	2513	577	75	1229
Fitz, Charles M., Oakland, Cal. Puzzle	556,535	Mar. 17	1932	451	74	1523
Fitz Gibbons, James. (See Whitcher and Fitz Gibbons.)						
Fitzgerald, Charles, Pittsburg, Pa. Cable-tension device	552,900	Jan. 14	775	188	74	158
Fitzgerald, Edward. (See Poteet and Fitzgerald.)						
Fitzgerald, Harrington, and G. H. Zane, Philadelphia, Pa. Combined car platform and fender	572,700	Dec. 8	1079	262	77	1503
Fitzgerald, James A. (See Fanner and Fitzgerald.)						
Fitzgerald, James H., Neapolis, Va. Railway-gate	566,569	Aug. 25	2928	715	76	1221
Fitzgerald, Oscar P., Jr., and J. R. Thomas, Nashville, Tenn. Coal-lifting implement	567,087	Sept. 1	629	146	76	1402
Fitzgerald, William J., Brooklyn, N. Y. Brake for bicycles, &c.	563,759	July 14	889	212	76	182
Fitzharris, E. J. (See Waters, John J., assignor.)						
Fitzhugh, Carter H. (See Brinckerhoff, Henry M., assignor.)						
Fitzhugh, Maria R., Bay Head, N. J. Fire-escape	567,642	Sept. 15	1593	383	76	1604
Fitzmorris, John, et al. (See Atkinson, Mahlon B., assignor.)						
Fitzpatrick, Jeremiah, Raton, N. Mex. Ter. Flue-cutter	565,850	Aug. 11	1636	401	76	940
Fitzpatrick, Thomas B., Newton, Mass. Waist	557,792	Apr. 7	485	116	75	92
Fitzwater, William M., Christiansburg, Va. Clothes-pin	568,246	Sept. 22	2661	637	76	1818
Fixen, Laura G. (See Moses, Hampton H., assignor.)						
Flagg, George C., Lewistown, Ill. Windmill	567,339	Sept. 8	1080	260	76	1494
Flagg, George H. P. (See La Bonté, Adolphus, assignor.)						
Flagg, George H. P., trustee. (See Webster, Harold A., assignor.)						
Flagg, James R., Frewsburg, and C. E. Lilly, Jamestown, N. Y. Railway switching device	569,751	Oct. 20	1833	435	77	374
Flahaux, Arthur, Laeken, Belgium. Automatic cleaner for rails of tramways, &c.	552,637	Jan. 7	227	63	74	45
Flaherty, James P., West Bend, Wis. Dental matrix	560,702	May 26	2515	577	75	1229
Flammang, Mathias, Newark, N. J., and F. Moniot, New York, N. Y. Photographic-plate holder	571,855	Nov. 24	2531	599	77	1170
Flanagan, Joseph E., Chicago, Ill. Metal sash-bar	567,970	Sept. 22	2147	517	76	1733
Flanagan, Thomas J. (See Olney, Allan E., assignor.)						
Flanegin, Francis A., Washington, D. C. Method of and means for removing paraffin from oil-wells	573,142	Dec. 15	1861	448	77	1671
Flanigan, John, Fort William, Canada. Bottle-stopper	567,781	Sept. 15	1820	437	76	1648
Flannery, Joseph M., Braddock, Pa. Skirt-supporting belt	561,576	June 9	927	221	75	1570
Flannery, Joseph M., Braddock, Pa. Garment-supporting belt	561,577	June 9	928	221	75	1570
Flannery, Patrick. (See Perkins, James B., assignor.)						
Flannigan, Edward, assignor of one-half to F. W. Klocke, St. Louis, Mo. Ball-bearing	572,880	Dec. 8	1379	334	77	1561
Flather, Frederick A., assignor to Lowell Machine Shop, Lowell, Mass. Feeding mechanism for carding-engines	553,671	Jan. 28	2117	501	74	438
Flather, Mark, Nashua, N. H. Mechanism for adjusting length of stroke in metal planers and shapers	564,064	July 14	1461	343	76	287
Flatt, William K., Duluth, Minn. Bicycle-support	566,071	Aug. 18	2049	499	76	1039
Flatlick, Andrew E., St. Louis, Mo. Device for preventing motion on cars	555,238	Feb. 25	2552	600	74	1029
Fleekl, Hans, Chicago, Ill. Pneumatic mail-collector	559,693	May 5	578	137	75	792
Fleer, Herman H. (See Fleer, Herman W. and H. H.)						
Fleer, Herman W. and H. H., St. Louis, Mo. Reclining-chair	556,343	Mar. 17	1565	366	74	1454
Fleetwood, John W., New Orleans, La. Apparatus for filtering cane-juice	555,855	Mar. 3	615	147	74	1243
Fleetwood, John W., New Orleans, La. Filter	566,391	Aug. 25	2612	638	76	1161
Flegal, Harvey J., Clearfield, Pa. Hanger for coats and pants	566,509	Aug. 25	2845	692	76	1204
Flegal, Harvey J., Clearfield, Pa. Coat-hanger	566,510	Aug. 25	2846	692	76	1204
Fleischer, Otto H. (See Syme, David A., assignor.)						
Fleischmann, Charles. (See Bruun, Eusebius, assignor.) (Reissue.)						
Fleming, David, et al. (See Marshbank, Andrew J., assignor.)						
Fleming, Horace D. (See Hough and Reiber, assignors.)						
Fleming, Jacob M., Ripley, Tex. Screen for vehicles	560,203	May 19	1579	358	75	1045
Fleming, James, Minneapolis, Minn. Trip-hook for wrapping log-chains	558,273	Apr. 14	1352	330	75	273
Fleming, James, Shakopee, Minn. Double-drum heating-stove	564,189	July 21	1692	396	76	344

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Fleming, Kate. (See Wing, Dwight R., assignor.)						
Fleming, Patrick, assignor to himself, and W. M. Frisbie, New Haven, Conn. Sash-faster	552,611	Jan. 7	187	51	74	37
Fleming, Peter, and W. J. Walsh, Butte, Mont. Smoke-consuming furnace	566,674	Aug. 25	3080	752	76	1251
Fleming, Peter G., and G. C. W. Gennert, Elizabeth, N. J., assignors to Firm of G. Gennert, New York, N. Y. Photographic burnisher	559,694	May 5	580	137	75	792
Fleming, Robert S., et al. (See Gould, Samuel A., assignor.)						
Fleming, Samuel, Philadelphia, Pa. Washing-machine	561,981	June 16	1636	398	75	1724
Fleming, Thomas C., Ayr, Nebr. Cultivator	573,143	Dec. 15	1863	448 449 140 141	77	1672
Flemming, Dudley D., Jersey City, N. J. Boiler-furnace	572,417	Dec. 1	591	141	77	1390
Flesher, Henry L., Prairieton, Ind. Harrow	569,492	Oct. 13	1325	312	77	266
Fletcher, Abraham. (See Fletcher, John, assignor.)						
Fletcher, Charles R. (See Forsyth and Fletcher.)						
Fletcher, Dalton, assignor of one-half to G. Kurz, Chicago, Ill. Shoe-stretcher	565,341	Aug. 4	717	172	76	749
Fletcher, David H. (See Franklin and Fletcher.)						
Fletcher, Donald, assignor to J. Fletcher, Denver, Colo. Bedside sash lift and lock	573,267	Dec. 15	2073	497	77	1709
Fletcher, Edwin J., assignor to Whiting Manufacturing Company, New York, N. Y. Case or box for silverware, &c	561,324	June 2	569	142	75	1479
Fletcher, Edwin J., assignor to Whiting Manufacturing Company, New York, N. Y. Case	563,581	July 7	586	137	76	110
Fletcher, Eliza B. (See Fletcher, Herman, assignor.)						
Fletcher, Herman, assignor to E. B. Fletcher, Louisville, Ky. Cutter-head	559,971	May 12	1138	254	75	913
Fletcher, James A. and S. Ashton-under-Lyne, England. Valve	556,006	Mar. 10	904	216	74	1319
Fletcher, James H., C. O. Kimball, and A. C. Clark, Little Rock, Ark. Mud and dirt protector and screen for bicycles	553,938	Apr. 28	2503	607	75	520
Fletcher, John, assignor to A. Fletcher, Chicago, Ill. Machine for making and stringing tags	567,809	Sept. 15	1870	447 448 449 517 518	76	1658
Fletcher, Joseph, Clayton-le-Moors, and C. Brown, Preston, England. Sewing-machine	571,653	Nov. 17	2156	517	77	1081
Fletcher, Julia. (See Fletcher, Donald, assignor.)						
Fletcher, Kimball B. (See McCormick and Fletcher.)						
Fletcher, Samuel. (See Fletcher, James A. and S.)						
Fletcher, Theodore, Idlewild, Tex. Trolley cut-out	553,061	Jan. 14	1043	254	74	209
Fletcher, William A., Beaumont, Tex. Log-loading mechanism	558,376	Apr. 14	1521	373	75	304
Fletcher, William A., Beaumont, Tex. Log-loader	565,857	Aug. 11	1666	408 409	76	947
Flett, George H. (See Cochran, Charles J., assignor.)						
Fleury, Charles M., Brooklyn, N. Y. Voice-conveyer for telephones	564,371	July 21	1992	468	76	397
Flickinger, Aaron E., Elyria, assignor of one-half to F. A. Beeman, Cleveland, Ohio. Switch-stand	563,582	July 7	589	137	76	110
Flindall, John, Chicago, and F. J. Mally, Cicero, Ill. Stone-dressing machine	563,583	July 7	591	137 138	76	111
Flinn, William. (See Booth and Flinn.)						
Flinn, William H., Nashua, N. H. Wire or rod cutter	552,831	Jan. 7	623	151	74	117
Flint, Christian W., Port Townsend, Wash. Car wheel and track	556,624	Mar. 17	2066	484	74	1548
Flint, John B., Chelsea, Mass., assignor to Wire Grip Fastening Company, Chicago, Ill. Nailing-machine	555,314	Feb. 25	2696	631 632	74	1057
Flint, John B., Chelsea, and A. J. Howard, Malden; said Flint assignor to O. E. Lewis, Winthrop, Mass. Nailing-machine	562,597	June 23	2690	650	75	1935
Flint, Junius H., Salem, Mass. Puzzle	562,384	June 23	2320	564	75	1866
Flint, Robert S., assignor of nine-twentieths to T. H. Dutcher, Troy, N. Y. Car-fender	555,083	Feb. 25	2288	545	74	979
Flood, Charles F. W., et al. (See Crosby, Robert H., assignor.)						
Floodman, Gustaf F., assignor to F. Syberg, Stockholm, Sweden. Diaphragm-pump	564,560	July 21	2317	544	76	456
Floeter, Philip C., Bay City, Mich. Automatic car-stopper for drawbridges	572,252	Dec. 1	278	67	77	1332
Flohr, Bridget A., administratrix. (See Flohr, Otto.)						
Flohr, Otto, deceased, Buffalo, N. Y.; B. A. Flohr, administratrix. Car-coupling	574,086	Dec. 29	3601	861	77	2026
Flood, Benjamin P., assignor of two-thirds to A. H. Comstock and R. R. Baliman, Omaha, Nebr. Perforating device	569,187	Oct. 13	804	188	77	169
Flood, Gustaf, Cokato, Minn. Price-scale	559,374	May 5	40	9	75	688
Flood, Harry J., Chicago, Ill. Brick-kiln	566,157	Aug. 18	2198	534 535 536	76	1066
Flood, Patrick, Albany, N. Y. Car-brake for street-railways	566,072	Aug. 18	2050	500	76	1039
Floror, George K., Denver, Colo. Coat-lock	566,852	Sept. 1	199	45	76	1321
Florence, Charles, Columbus, Ohio. Corn-planter	570,847	Nov. 3	780	178	77	784
Florence, George, assignor of one-half to R. D. Cole, Sr., Newnan, Ga. Machine for making twine or cord	572,479	Dec. 1	681	163	77	1409
Florence Manufacturing Company. (See Estabrook, Alanson C., assignor.)						
Florence Manufacturing Company. (See Look, Frank N., assignor.)						
Flores, Alfredo, A. D., and M., San Antonio, Tex. Means for operating fans, &c	573,774	Dec. 22	3025	717	77	1906
Flores, Antonio D. (See Flores, Alfredo, A. D., and M.)						
Flores, Marcos. (See Flores, Alfredo, A. D., and M.)						
Flotron, Emile. (See Köhli, Fritz, assignor.)						
Flotron, Emile, Madretsch, Switzerland. Stem-fastener for watches	560,898	May 26	2874	659	75	1298
Flournoy, William T., Marionville, Mo. Barometer	572,536	Dec. 8	782	187	77	1442
Flower, Chauncey A., New Bethlehem, Pa. Preparing dentists' gold	564,877	July 28	2858	685	76	574
Flower, Chauncey A., New Bethlehem, Pa. Preparing dentists' gold	564,919	July 28	2919		76	586
Flower, James M., Potts's Station, Ark. Stalk and weed chopper	557,372	Mar. 31	3376	811	74	1832
Flower, James M., Potts's Station, Ark. Wrench	567,588	Sept. 15	1503	360	76	1587
Flowers, Richard C., Cleves, Ohio. Animal-trap	562,815	June 30	3068	742	75	2025
Floyd, Charles A., assignor to W. A. Bromwich, London, England. Vehicle-shaft	557,793	Apr. 7	486	116	75	92
Floyd, William G., et al. (See Turbeville, De Kalb, assignor.)						
Flucker, John W. (See Schoenberg, Flucker, and Keedwell.)						
Flucks, Paul, and G. P. McDonnell, St. Louis, Mo. Bicycle-bell	572,881	Dec. 8	1380	334 335	77	1561
Fluhr, Emile, Sprague, Wash. Nut-lock	570,789	Nov. 3	670	154	77	762
Flye, Winfield W., East Hiram, Me. Toy or game device	570,544	Nov. 3	195	52	77	674
Flynn, Michael F., Stamford, Conn. Car-fender	553,522	Jan. 28	1863	441 442	74	393
Flynn, John J., Aurora, Ill. Car-coupling	571,155	Nov. 10	1328	309	77	913
Flynn, Thomas H., Winchester, Ill. Device for grooving artificial ice	567,538	Sept. 8	1400	337	76	1552

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Flynn, Thomas J. (See Eisenhardt and Flynn.)						
Flynt, Chester D., assignor of one-half to J. T. Jones, Brooklyn, N. Y. Journal-box	572,882	Dec. 8	1382	335	77	1562
Flynt, Chester D., assignor of one-half to J. T. Jones, Brooklyn, N. Y. Dust-guard for journal-boxes	572,883	Dec. 8	1383	335	77	1562
Fobes, George. (See Morian, Carlos C., assignor.)						
Fobes, William E., assignor to W. D. Franklin and E. S. Daniel, St. Louis, Mo. Toy	563,151	June 30	3692	884	75	2148
Focer, Daniel, Cape May, N. J., assignor to G. J. Richardson, trustee, Philadelphia, Pa. Dust-guard	571,354	Nov. 17	1655	392	77	990
Focht, Harry, Reading, Pa. Siphon	565,729	Aug. 11	1439	351	76	903
Foehl, Charles, assignor of one-half to H. Ruhland, Philadelphia, Pa. Cylinder-stop for revolvers	551,058	Feb. 4	462	104	74	589
Fogalsang, Thomas E., Sacramento, Cal. Galvanic battery	561,878	June 9	1458	352	75	1670
Fogg, Charles H. (See Raymond and Fogg.)						
Fogg, Charles H., Boston, Mass. Work-plate for sewing-machines	555,476	Feb. 25	2990	712	74	1111
Foisy, Arsène, Gardner, Mass. Pocket-stool	552,956	Jan. 14	873	212	74	177
Foley, John F., assignor of one-third to W. R. Jewell, Chicago, Ill. Combined bath and shower apparatus	565,408	Aug. 4	826	195	76	770
Foley, Michael F. X., Philadelphia, Pa. Metallic trough floor	568,436	Sept. 29	2980	716	76	1893
Folger, Thomas P., New Brunswick, N. J. Cue-tip	553,905	Feb. 4	185	39	74	539
Folk, David H., Brewer, Tex. Wire-stretcher	564,065	July 14	1462	343	76	287
Folks, Thomas, assignor of one-half to A. R. Perry, New York, N. Y. Antirefilling bottle	573,775	Dec. 22	3026	717	77	1906
Follett, Edward P., Duluth, Minn. Tailor's measure	566,158	Aug. 18	2201	536	76	1067
Follett, Edward P., assignor of one-half to E. G. Hilliard, Duluth, Minn. Shot-cartridge	553,082	Jan. 14	1044	254	74	210
Follis, William B. (See Culnan, William J., assignor.)						
Folsom, Gilman N., Hobart, Nev. Combined scraper and leveler	563,760	July 14	891	213	76	183
Folsom, John A., Minneapolis, Minn. Keyless bicycle-lock	555,477	Feb. 25	2991	712	74	1111
Folsom, John S. (See Folsom, Nehemiah T., assignor.)						
Folsom, Nehemiah T., Manchester, N. H., assignor of one-half to J. S. Folsom, Millis, Mass. Let-off mechanism for looms	558,274	Apr. 14	1354	330	75	273
Folsom, Nehemiah T., Manchester, N. H., assignor of one-half to J. S. Folsom, Millis, Mass. Let-off mechanism for looms	562,598	June 23	2692	651	75	1936
Fonblanque, Charles E. de, Dikoya, Ceylon. Hat-retainer	555,689	Mar. 3	350	80	74	1192
Fonda, Frank L., et al. (See Roach, Robert C., assignor.)						
Fonda, Isaac L., Boston, Mass. Bicycle-stand	562,520	June 23	2537	616	75	1907
Fontaine, John L. (See Richner and Fontaine.)						
Fontano & Co. (See Cerruti, Antonio, assignor.)						
Fontenot, Theophile S. (See Donato, John B. G., assignor.)						
Fooks, Robert H., et al. (See Bennum, George W., assignor.)						
Foos, John, et al. (See Hoskins, Thomas D., assignor.)						
Foot & Brooks Company. (See Brooks, Stephen H., assignor.)						
Foot, J. Howard, et al. (See Craig, Gilbert T., assignor.)						
Foot, James H., assignor, by mesne assignments, to J. R. Holmes and J. A. Slattery, Cincinnati, Ohio. Pulley	562,073	June 16	1810	436	75	1754
Foot, Mark S., Burlington, Iowa. Steam-boiler	552,754	Jan. 7	460	115	74	87
Foot, Thomas H., New York, N. Y. Gas-cock	565,730	Aug. 11	1439	351	76	903
Foot, William H., Casey, Iowa. Wheel-cultivator	565,866	Aug. 18	1713	420	76	972
Foraker, John C., Cherryvale, Kans. Flour and meal chest	554,219	Feb. 4	750	171	74	643
Foran, Michael J., Cincinnati, Ohio. Cleat	557,984	Apr. 7	819	194	75	154
Forbes, Arthur A., St. Hyacinthe, Canada. Let-off mechanism for looms	569,865	Oct. 20	2015	480	77	407
Forbes, Burt B. (See Thomas and Forbes.)						
Forbes, Charles, Rochester, N. Y. Sanitary communion-service	553,846	Feb. 4	59	12, 13	74	516
Forbes, Charles H., et al. (See Davenport, George, assignor.)						
Forbes, David, and E. T. Bennett, Grand Rapids, Mich. Show-case	554,864	Feb. 18	1881	442	74	890
Forbes, Groves C., Homer, Ga. Churn-power	553,457	Jan. 21	1731	413	74	352
Forbes, John, Halifax, Canada. Attachment for carving-forks	554,173	Feb. 4	687	155	74	631
Forbes, John B., Jefferson, Iowa. Cornstalk-cutter	567,893	Sept. 15	2006	482	76	1685
Forbes, Martin W., and F. Hart, Miamisburg, Ohio. Sliding door	566,159	Aug. 18	2202	536	76	1067
Forbes, Samuel and T., Dodgeville, Wis. Tire-tightener	567,782	Sept. 15	1821	437	76	1648
Forbes, Thomas. (See Forbes, Samuel and T.)						
Forbush, Orrin, Miller's Falls, Mass. Gage	573,457	Dec. 22	2468	585	77	1799
Forbush, Willie M., Crystal, N. H. Car-brake	561,102	June 2	46	12	75	1376
Force & Co., William A. (See Bartusch, Oswald, assignor.)						
Force, Robert J., Jamison City, Pa. Churn	573,400	Dec. 15	2317	554	77	1754
Ford, Benjamin F. (See House and Ford.)						
Ford, Brown. (See Storey, James W., assignor.)						
Ford, Bruce, Johnstown, Pa. Electric railway	562,890	June 30	3216	777, 778	75	2054
Ford, Bruce, and W. Jens, Johnstown, Pa. Electric rail-bond	558,016	Apr. 7	909	227	75	170
Ford, Charles W. (See Ford, George E., assignor.)						
Ford, Edward L., Youngstown, Ohio. Puddling and apparatus therefor	564,276	July 21	1836	429, 430	76	370
Ford, Eliot E., and C. Schlundt, Rahway, N. J. Bottle-stopper	567,852	Sept. 15	1950	467	76	1674
Ford, Frank R., Philadelphia, Pa., assignor to Economic Machine Company, of New York. Paper-feeding machine	567,266	Sept. 8	935	223, 224	76	1468
Ford, George E., assignor of one-half to C. W. Ford, Golden Gate, Cal. Gas-governor	556,667	Mar. 17	2125	496	74	1559
Ford, George R., Chicago, Ill. Scissors-sharpener	554,116	Feb. 4	586	132	74	611
Ford, George R., Chicago, Ill. Flue-scraper	560,091	May 12	1379	310	75	956
Ford, George R., Chicago, Ill. Boiler-cleaner	560,126	May 12	1436	324	75	965
Ford, George R., and D. Alexander, Chicago, Ill. Support for blowpipes	560,092	May 12	1380	310	75	956
Ford, I. N. (See Whiteley, Ben, assignor.)						
Ford, James, Johnstown, Pa. Car-brake	560,498	May 19	2095	479	75	1136
Ford, John F., St. Louis, Mo. Wind-wheel	561,074	May 26	3147	727	75	1350
Ford, Johnson & Co. (See Morris, Henry B., assignor.) (Reissue.)						
Ford, Laura F., Indianapolis, Ind. Receptacle device for stationary articles	555,502	Mar. 3	31	8	74	1136
Ford, Micajah M. (See Revello, Ford, and Kelley.)						
Ford, Samuel D., assignor of one-half to W. E. Trufant, Whitman, Mass. Box-nailing machine	572,418	Dec. 1	592	141	77	1391
Ford, Samuel M., Flora, Ill. Ironing-board	565,731	Aug. 11	1441	351	76	903
Ford, Thomas P., Brooklyn, N. Y. Automatic pressure-reducing valve	552,794	Apr. 21	2249	543	75	456
Ford, Willard S., Avon, assignor of one-half to J. F. Beal, Jr., Brockton, Mass. Bottle	565,732	Aug. 11	1442	351	76	904
Ford, William H., assignor of one-half to A. E. Geiger, St. Louis, Mo. Device for cleaning windows	556,722	Mar. 17	2221	518	74	1580
Ford, William J. (See Finger and Ford.)						
Forder, Milton, Litchfield, Minn. Hand baling-press	566,976	Sept. 1	427	100	76	1362

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Fordham, John N., Brooklyn, N. Y. Ash-sifter.....	569,041	Oct. 6	560	129	77	106
Fordyce, Alexander R., Newark, N. J. Fireproof-building construction.....	553,305	Jan. 21	1492	358	74	307
Fordyce, Alexander R., Newark, N. J. Metallic lathing.....	553,306	Jan. 21	1494	358 359	74	308
Fordyce, Alexander R., Newark, N. J. Fireproof construction.....	555,084	Feb. 25	2291	546	74	979
Fordyce, Alexander R., Newark, N. J. Metallic lathing.....	557,658	Apr. 7	253	61	75	48
Fordyce, Edmond A., Chicago, Ill. Pneumatic-despatch apparatus.....	570,160	Oct. 27	2534	601 602	77	518
Fordyce, Edmond A., Chicago, Ill. Pneumatic-despatch apparatus.....	570,161	Oct. 27	2536	602	77	519
Fordyce, Edmond A., Chicago, Ill. Means for controlling supply of motor fluid.....	576,162	Oct. 27	2537	602 603	77	519
Fordyce, Edmond A., Chicago, Ill. Store-service apparatus.....	570,163	Oct. 27	2539	603	77	520
Fordyce, Edmond A., Chicago, Ill. Electric switchboard.....	572,748	Dec. 8	1175	282	77	1521
Foreacre, Dee I. (See Bay, Foreacre, and Dye.)						
Forehand Arms Company. (See Parry, Edward G., assignor.)						
Forehand, William C., Tipton, Ind. Locket or brooch.....	553,708	Jan. 28	2181	517 432 423 424 425	74	451
Foreman, Charles A., Chambersburg, Pa. Turbine water-wheel.....	560,350	May 19	1856	46	75	1093
Foreman, Lewis T., Omaha, Nebr. Swinging hose-bracket.....	566,853	Sept. 1	200	46	76	1321
Forest City Steel Range Company. (See Wicke, Wilhelm, assignor.)						
Forester, Edward W., assignor of one-third to J. M. Connor, Kansas City, Mo. Wire-stretcher.....	565,613	Aug. 11	1222	295	76	863
Formel, Julius Z., assignor to Champion Natural Carbonic Acid Gas Company, Saratoga Springs, N. Y. Apparatus for carbonating fermented beverages.....	561,879	June 9	1459	352	75	1670
Forney, Jesse S. (See Hull, Forney, and Feist.)						
Forney, Jesse, et al. (See Hull, Eugene E., assignor.)						
Forney, Matthias N., New York, N. Y. Valve-gear.....	557,794	Apr. 7	487	116 117	75	93
Forney, Matthias N., New York, N. Y. Car-seat.....	566,675	Aug. 25	3082	752 753	76	1251
Forrester, Isaac N. (See Borchers and Forrester.)						
Forrester, Isaac N., Camden, N. J. Rotary engine.....	560,579	May 19	2245	514 515	75	1163
Forrester, James H. (See Loyd and Forrester.)						
Forrey, George J., assignor of one-half to S. L. Diven, Carlisle, Pa. Electric-railway system.....	571,435	Nov. 17	1785	426 427	77	1014
Forsberg, Fredrik, Sandviken, Sweden. Wire-reel.....	571,156	Nov. 10	1329	300 310	77	914
Forsberg, Peter, assignor of one-third to G. Lagerquist, Minneapolis, Minn. Ventilated mattress.....	560,613	May 19	2302	527	75	1173
Forsberg, Peter, assignor of one-half to J. Rydback, Minneapolis, Minn. Spring and air cushion.....	563,225	June 30	3822	915	75	2172
Forschner, George S., New York, N. Y. Pan for weighing-scales.....	561,704	June 9	1154	275	75	1614
Forschner, George S., New York, N. Y. Scale-pan.....	571,157	Nov. 10	1330	310	77	914
Forsheim, Joseph, New York, N. Y. Bracelet.....	554,417	Feb. 11	1106	257	74	736
Forsheim, Joseph, New York, N. Y. Buckle.....	562,953	June 30	3342	803	75	2082
Forslund, Hugo W., Chicago, Ill. Steam-engine.....	554,022	Feb. 4	404	89	74	579
Forslund, Hugo W., Chicago, Ill. Steam-engine.....	567,188	Sept. 8	797	188	76	1445
Forslund, Hugo W., Chicago, Ill. Engine.....	570,280	Oct. 27	2754	656	77	560
Forslund, Hugo W., Chicago, Ill. Compound steam-engine.....	573,869	Dec. 29	3206	763	77	1953
Forslund, Hugo W., and A. P. Rumely, Chicago, Ill.; said Forslund assignor to said Rumely. Tube-cleaning device.....	558,553	Apr. 21	1827	445	75	379
Forsman, Charles, New York, N. Y. Registry-block for electrotypes.....	572,884	Dec. 8	1384	335	77	1562
Forst, Emil M. (See Van Opstal and Forst.)						
Förste, Carl F., assignor to Förste & Tromm, Leipsic, Germany. Ruling-machine.....	553,189	Jan. 14	1279	309	74	254
Förste & Tromm. (See Förste, Carl F., assignor.)						
Forster, John, St. Heiens, England. Automatic railway signaling apparatus.....	569,008	Oct. 6	507	114 115	77	96
Förster, Max von, Berlin, Germany. Making smokeless powder.....	559,638	May 5	494		75	777
Forster, Thomas W., assignor of one-half to Buhl Stamping Company, Detroit, Mich. Cover for milk-cans.....	563,659	July 7	700	166	76	132
Forsyth, Daniel M., Franklin, Ind. Ice-creeper.....	572,975	Dec. 15	1568	376	77	1615
Forsyth, Ellen S. D., Chicago, Ill. Skirt.....	554,998	Feb. 18	2117	504	74	933
Forsyth, Henry H. and Henry H., Jr., Chicago, Ill. Shade-holding device.....	559,446	May 5	173	36	75	715
Forsyth, James. (See Gibbons, Daniel, assignor.)						
Forsyth, James B., Boston, Mass. Safety stop device for grinders, &c.....	570,848	Nov. 3	782	178 179	77	784
Forsyth, James B., and C. R. Fletcher, Boston, Mass. Apparatus for producing wire-bars by electrodeposition.....	570,125	Oct. 27	2474	586	77	507
Forsyth, John F., Bloomington, Ind. Railway-spike.....	558,169	Apr. 14	1170	285	75	239
Forsyth, Joseph E., Chicago, Ill. Car-coupling.....	563,152	June 30	3693	884	75	2148
Forsyth Manufacturing Company. (See Whittington, Joseph H., assignor.)						
Forsyth, Wilber D., and E. T. Bell, Dublin, Ind. Boiler-tube cleaner.....	568,247	Sept. 22	2662	637 638	76	1818
Fort, Joseph A., Paris, France, assignor to Dr. Fort's Electrolysis Sanatorium, of New York. Instrument for treatment of strictures by electrolysis.....	552,832	Jan. 7	624	152	74	117
Fort Wayne Electric Corporation. (See Sessions, Frank L., assignor.)						
Forter, Samuel, Bellevue, Pa. Heating-furnace.....	555,856	Mar. 3	617	148 742 743 744 745 746	74	1243
Forth, Charles, assignor, by mesne assignments, to Forth Graphotype Company, Cleveland, Ohio. Matrix assembling and distributing machine.....	562,816	June 30	3070	803 804 805	75	2025
Forth, Charles, assignor, by mesne assignments, to Forth Graphotype Company, Cleveland, Ohio. Matrix assembling and distributing machine.....	562,954	June 30	3344	806 807	75	2082
Forth, Charles, assignor, by mesne assignments, to Forth Graphotype Company, Cleveland, Ohio. Linotype-casting machine.....	562,955	June 30	3354	806 807	75	2084
Forth Graphotype Company. (See Forth, Charles, assignor.)						
Fortier, Charles L., assignor to Johnson Electric Service Company, Chicago, Ill. Electric valve.....	560,703	May 26	2516	577	75	1229
Fortier, Gabriel F., Jeanerette, La. Adjustable pack-saddle bridge.....	556,668	Mar. 17	2126	496	74	1559

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Fortney, Frank F., Ravenna, Ohio. Chair	564,744	July 28	2634	627	76	533
Fortune, Robert W. (See McIlhany, Joseph W., assignor.)						
Forward, Walter, San Diego, Cal. Propulsion of boats	554,589	Feb. 11	1395	328	74	781
Foschinbaur, Joseph F., Ridgeland, assignor to Union Special Sewing Machine Company, Chicago, Ill. Folding guide for sewing-machines	566,676	Aug. 25	3086	753	76	1251
Fosdick, Frederick, Fitchburg, Mass. Steam-engine	569,628	Oct. 20	1592	375	77	332
Fosgate, Alfred, Auburn, N. Y. Hair-curler	567,767	Sept. 15	1796	431	76	1644
Fosgate, Alfred, Auburn, N. Y. Type-writing machine	568,301	Sept. 22	2748	660 661	76	1836
Foss, John J., Cleveland, Ohio. Dumping car or buggy	557,985	Apr. 7	819	195	75	154
Foss, William H., Syracuse, N. Y. Tap or other valve	558,020	Apr. 7	913	228	75	171
Fossati, Nicola, Smith's Flat, Cal. Pan-and-roller mill	559,170	Apr. 28	2947	712	75	605
Fossett, William H., Walsenburg, Colo. Nut-lock	573,776	Dec. 22	3028	717	77	1906
Foster, Abraham G. W., Sargent, Ga. Plow-fender	571,223	Nov. 10	1428	334	77	892
Foster, Alonzo M., Cabot, Vt. Bark-rossing device	563,584	July 7	593	138	76	111
Foster Bros., et al. (See Foster and Wilcox, assignors.)						
Foster Brothers Manufacturing Company et al. (See Rogers, Harley C., assignor.)						
Foster Brothers Manufacturing Company of Baltimore City. (See Colvin, Frank D., assignor.)						
Foster, Charles E., Washington, D. C. Elevator-control apparatus	553,672	Jan. 28	2121	502	74	439
Foster, Charles E., Washington, D. C., assignor to D. B. Wesson, Springfield, Mass. Safety device for revolvers	565,678	Aug. 11	1345	327	76	887
Foster, Charles E., Washington, D. C., assignor to Standard Equipment Company, Jersey City, N. J. Switch-stand	570,390	Oct. 27	2994	709	77	604
Foster, Edwin L., Independence, Kans. Ribbon-holder for type-writing machines	554,590	Feb. 11	1396	328	74	781
Foster, Elmer S., New Middletown, Ind. Hoop-making machine	553,282	Jan. 21	1457	350	74	301
Foster, Ephriam A., Port Clinton, Ohio. Mail-crane	567,088	Sept. 1	631	146	76	1402
Foster, Ephriam A., Port Clinton, Ohio. Mail-bag catcher	570,468	Nov. 3	49	12	77	648
Foster, Ernest L. (See Nash, Samuel, assignor.)						
Foster, Frank A. (See Preston, Willard B., assignor.)						
Foster, Frank F., Snohomish, Wash. Overshoe-retainer	554,174	Feb. 4	689	155	74	631
Foster, George D., Preston, Iowa. Portable corn-shock press	562,177	June 16	1970	478	75	1786
Foster, George D., Preston, Iowa. Apparatus for loading corn-shocks	562,178	June 16	1974	479	75	1786
Foster, Henry T., Rockwood, Tenn. Singletree	554,175	Feb. 4	690	155	74	631
Foster, Jacob H., Rising City, Nebr. Ironing-table	571,158	Nov. 10	1331	310	77	914
Foster, James L., Waterbury, Conn. Trolley for electric cars	559,275	Apr. 28	3147	761	75	642
Foster, James W. (See Bell, Melville, and Foster.)						
Foster, John M., Elizabeth, N. J. Safety stop-valve	566,452	Aug. 25	2755		76	1188
Foster, John W., assignor to Foster Machine Company, Westfield, Mass. Swift or reel	554,620	Feb. 11	1450	340	74	791
Foster, John W., assignor to Foster Machine Company, Westfield, Mass. Thread winding or spooling machine	554,621	Feb. 11	1450	340 341	74	791
Foster Machine Company. (See Foster, John W., assignor.)						
Foster, Matthew H. (See Chase and Foster.)						
Foster, Matthew H., et al. (See Winn, Alby C., assignor.)						
Foster, Oscar S., Utica, and F. E. Wilcox, Syracuse, assignors to Foster Bros., Utica, and F. E. Wilcox, Syracuse, N. Y. Slat-hanger for beds	572,600	Dec. 8	905	219	77	1469
Foster Pump Works. (See Mistic and Foster, assignors.)						
Foster, Ralph W., Boston, Mass. Spelling-block	557,307	Mar. 31	3261	782	74	1809
Foster, Robert F., Baltimore, Md., assignor to A. Dougherty, New York, N. Y. Duplicate-whist card-case	568,437	Sept. 29	2981	716	76	1893
Foster, Thomas J. (See Parsons, Calvin W., assignor.)						
Foster, Whilldin S., Philadelphia, Pa. Washing-machine	571,758	Nov. 24	2362	564	77	1139
Foster, William. (See Mistic and Foster.)						
Foster, William, Brooklyn, N. Y. Steam-boiler cleaner	565,733	Aug. 11	1442	352	76	904
Foster, William T., Bozeman, Mont. Gate	566,899	Sept. 1	279	65	76	1335
Foster, Zebulon, Chicago, Ill. Auxiliary tire	554,922	Feb. 18	1979	467	74	908
Foth, William, Orange, N. J. Clamp for repairing bicycle-tires	568,753	Oct. 6	73	16	77	17
Fotheringham, John, assignor to Sweetmeat Automatic Delivery Company, Limited, London, England. Coin-freed apparatus for delivering tickets, sweetmeats, &c.	570,849	Nov. 3	783	179 180	77	784
Fouche, Joseph, Visalia, Cal. Plow	568,942	Oct. 6	384	87	77	74
Fougère, Angus, assignor to J. A. Harris, Moncton, Canada. Nut-lock	567,267	Sept. 8	938	224	76	1468
Foulke, John F. (See Lea and Foulke.)						
Foulkes, Thomas L., et al. (See Burnham, Charles, assignor.)						
Foulkrod, Joseph, Philadelphia, Pa. Adjustable gun-stock	555,602	Mar. 3	202	47	74	1167
Fountain Machine Company. (See Mihsbach and Groeschel, assignors.)						
Fournier, Friedrich M., assignor to W. Prieb, Dresden, Germany. Smoothing-iron	554,176	Feb. 4	691	155	74	632
Foutrel, Emile, San Antonio, Tex. Wagon-standard	573,458	Dec. 22	2470	585	77	1800
Fonts, George S., San José, Cal. Elevator power-wheel	554,023	Feb. 4	406	89	74	579
Fowler, Albert C. (See Heald, Joseph C., assignor.)						
Fowler, Alexander D., Detroit, Mich. Water-closet	567,120	Sept. 1	689	160	76	1214
Fowler, Alfred B., and G. E. Warren, assignors to Campbell Machine Company, Pawtucket, R. I. Shuttle-driving mechanism for sewing-machines	560,704	May 26	2517	578	75	1230
Fowler, Alfred B., and G. E. Warren, Pawtucket, R. I., assignors to Lincoln Sewing Machine Company, Exeter, N. H. Welt-guiding mechanism for sewing-machines	560,705	May 26	2518	578	75	1230
Fowler, Alfred B., and G. E. Warren, Pawtucket, R. I., assignors to Lincoln Sewing Machine Company, Exeter, N. H. Sewing-machine	564,985	Aug. 4	45	10	76	625
Fowler, Alfred B., and G. E. Warren, Pawtucket, R. I., assignors to Lincoln Sewing Machine Company, Exeter, N. H. Shoe-sewing machine	564,986	Aug. 4	46	11	76	626
Fowler, Benjamin F., and F. T. Higgins, Minneapolis, Minn. Reflecting-cap for burners	557,795	Apr. 7	490	117	75	93
Fowler, Charles, Lake Ariel, Pa. Clothes-drier	559,057	Apr. 28	2706	658	75	559
Fowler, Charles E., assignor of one-half to J. O. Pew, Youngstown, Ohio. Bridge-flooring	559,774	May 5	731	175	75	820
Fowler, Charles M., Lowell, Mass., assignor to E. Peters, Tompkins, Mich. Fire-escape	553,190	Jan. 14	1281	310	74	254
Fowler, Charles M., Springfield, assignor of one-fourth to F. E. Frost, Worcester, Mass. Hand printing device	564,066	July 14	1464	343 344	76	288
Fowler, Charles M., assignor to N. F. Tucker, Worcester, and A. A. Stebbins, Fitchburg, Mass. Window-fastener	572,052	Nov. 24	2884	681	77	1237
Fowler, Charles W., assignor of one-half to W. W. Varney, Baltimore, Md. Cutter-head for variety molding-machines	559,695	May 5	582	137	75	793
Fowler Composing and Type Setting Company. (See Fowler, Joseph C., assignor.)						
Fowler, Edward C., assignor of one-half to A. Kaicher, Forestville, Conn. Mirror-stand	568,480	Sept. 29	3051	733	76	1906
Fowler, Frank T. (See Aze, Emile, assignor.)						
Fowler, George A., assignor of one-half to C. V. Jewell, Wichita, Kans. Thill-coupling ...	564,011	July 14	1358	316	76	268

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Fowler, Harry P., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Frame for velocipedes.	562,074	June 16	1810	437	75	1755
Fowler, Joseph C., New York, N. Y., assignor to Fowler Composing and Type Setting Company, Chicago, Ill. Line-casting machine.	552,830	Jan. 7	621	151	74	117
Fowler, Rufus B., Worcester, Mass. Eyeglass-frame.	556,304	Aug. 25	2435	596	76	1128
Fowler, Samuel. (See Houghton, Henry S., assignor.)						
Fowler, Sylvester E. (See Walter and Fowler.)						
Fowler, Sylvester E., Anna, Ill. Automatic strainer for eaves-troughs.	565,858	Aug. 11	1668	410	76	947
Fowler, Thomas J., and F. Fetic, Genoa, Nev. Faucet.	562,127	June 16	1887	458	75	1770
Fowler, Walter B., Lawrence, Mass. Draft-regulator for chimneys	560,264	May 19	1702	387	75	1067
Fowler, William E. (See Caverno and Fowler.)						
Fowler, William F., Youngstown, Ohio. Binder.	571,998	Nov. 24	2788	657	77	1219
Fowler, William M., Stamford, Conn. Bottle-filling machine.	554,923	Feb. 18	1980	468	74	908
Fowler, William M., Stamford, Conn. Bottle-filling machine.	554,999	Feb. 18	2119	504	74	933
Fowler, William M., Stamford, Conn. Liquid-dispensing apparatus.	555,284	Feb. 25	2643	619	74	1047
Fowler, William M., Stamford, Conn. Bottle-stopper.	563,469	July 7	391	90	76	76
Fowler, William M., Stamford, Conn. Filter.	565,890	Aug. 18	1719	421	76	973
Fowler, William M., Stamford, Conn. Multiple filter.	565,973	Aug. 18	1897	461	76	1009
Fowler, William M., Stamford, Conn. Clarifying liquids.	565,973	Aug. 18	1898	461	76	1009
Fowler, William M., Stamford, Conn. Liquid-meter.	570,748	Nov. 3	609	140	77	750
Fowley, James, Cobden, Ill. Machine for making hoops, handles, and carriage material.	568,671	Sept. 29	3430	820	76	1977
Fox, Adam F., Indianapolis, Ind. Foldable mud-guard.	558,377	Apr. 14	1523	374	75	305
Fox, Adam H. (See Woodard, Albert P., assignor.)						
Fox, Albert H. (See Snyder, George W., assignor.)						
Fox, Ansley H., Baltimore, Md. Car-brake.	554,507	Feb. 11	1255	293	74	753
Fox, Ansley H., Baltimore, Md. Breach-loading breakdown gun.	563,153	June 30	3694	884	75	2148
Fox, Benjamin G., Pricetown, Pa. Horseshoe.	567,740	Sept. 15	1755	420	76	1636
Fox, Charles H. (See Ahrens and Fox.)						
Fox, Charles H., Cincinnati, Ohio. Steam-boiler.	568,438	Sept. 29	2982	717	76	1893
Fox, Charles H., Cincinnati, Ohio, assignor to American Fire Engine Company, Seneca Falls, N. Y. Steam-fire-engine pump.	569,966	Oct. 20	2192	520	77	440
Fox, Charles W., St. Louis, Mo. Bicycle-training device.	560,061	May 12	1315	295	75	944
Fox, Clarence W. (See Blount, John G., assignor.)						
Fox, Daniel, assignor of one-half to G. Best, Pittsburg, Pa. Bosh-plate.	558,093	Apr. 21	2433	592	75	491
Fox, Floyd H., New York, N. Y. Car-coupling.	560,788	May 26	2665	613	75	1258
Fox, George, 2d, assignor of one-half to G. S. Wright, New York, N. Y. Fireproof door.	570,391	Oct. 27	2997	709	77	604
Fox, Jacob E., Seattle, Wash. Circular saw.	568,754	Oct. 6	74	17	77	17
Fox, John, New York, N. Y., assignor of one-half to J. Conway, Union, N. J. Automatic gas-vending apparatus.	565,383	Aug. 4	784	186	76	762
Fox, John J., New York, N. Y. Hydrant.	556,500	Mar. 17	1864	435	74	1511
Fox, John S., Oakland, Cal. Draft-regulator.	566,073	Aug. 18	2051	500	76	1039
Fox Machine Company. (See Fox, William R., assignor.)						
Fox Machine Company. (See Hain, Ralph B., assignor.)						
Fox, Samson, Leeds, England. Manufacture of axle-boxes and apparatus therefor.	563,470	July 7	392	90	76	76
Fox Solid Pressed Steel Company. (See Bagshawe, Bernal, assignor.)						
Fox Solid Pressed Steel Company. (See Barnes, David L., assignor.)						
Fox Solid Pressed Steel Company. (See Hackney, Clem, assignor.)						
Fox Solid Pressed Steel Company. (See Rapley, Frederick H., assignor.)						
Fox, Washington L., et al. (See Houghton, Charles L., assignor.)						
Fox, William R., Grand Rapids, Mich. Rivet.	559,276	Apr. 28	3148	761	75	642
Fox, William R., assignor to Fox Machine Company, Grand Rapids, Mich. Riveting-machine.	557,986	Apr. 7	821	195	75	154
Fox, William R., assignor to Fox Machine Company, Grand Rapids, Mich. Drilling-machine.	564,479	July 21	2170	508	76	430
Fox, William R., assignor to Fox Machine Company, Grand Rapids, Mich. Machine for cutting bicycle-tubing.	570,850	Nov. 3	786	180	77	785
Fox, William R., assignor to Fox Machine Company, Grand Rapids, Mich. Bicycle-hub.	572,976	Dec. 15	1570	376	77	1615
Fox, William T., Rochester, N. Y. Tank-valve for water-closets.	557,659	Apr. 7	254	61	75	48
Foy, Michael B. (See Child, Foy, and Leavitt.)						
Foy, Michael B. (See Child, Keating, and Foy.)						
Foy, Michael B., New York, and F. M. Leavitt, Brooklyn, assignors to Economic Machine Company, New York, N. Y. Paper-feeding machine.	567,268	Sept. 8	941	224	76	1469
Fraim, Edward T. (See Werner, George W., assignor.)						
Frake Manufacturing Company. (See Paul, Isaac H., Jr., assignor.)						
Fraley, George B., Philadelphia, Pa., assignor to Globe Electric Heating Company. Electric heater.	569,278	Oct. 13	964	231	77	200
Frambach, Matt J., Rock, Iowa. Fanning-mill.	569,629	Oct. 20	1591	376	77	332
Frame, Thomas, Salida, Colo. Locomotive headlight and signal.	568,605	Sept. 29	3309	794	76	1954
France, Edward W., and J. Buckler, Philadelphia, Pa. Jacquard mechanism for looms.	570,703	Nov. 3	532	123	77	737
Francis, David R. (See Lippy, Finck, Rinehart, and Francis.)						
Francis, Frank E., Auburn, Me., assignor to Goodyear Shoe Machinery Company, Boston, Mass. Jack for shoe-machines.	573,144	Dec. 15	1865	449	77	1672
Francis, George T., Chicago, Ill. Electric elevator.	564,480	July 21	2172	509	76	431
Francis, John C., assignor to E. M. Greene, New York, N. Y. Magneto-generator.	571,305	Nov. 10	1571	373	77	961
Francis, John F., et al. (See Lemon and Bartlett, assignors.)						
Francisco, Charles F., Lakeside, Cal. Buckle.	561,308	June 2	431	107	75	1453
Francisco, William A., Hubbard, Nebr. Level or plumb.	567,539	Sept. 8	1402	337	76	1552
Francisco-American Patent Can Opening Company. (See McColl, Francis P., assignor.)						
Frank, Bernhardt J., et al. (See Musselman, Peter, assignor.)						
Frank, David, Brooklyn, assignor of one-half to J. Trounstone, New York, N. Y. Metal bedstead.	572,253	Dec. 1	279	67	77	1332
Frank, George, Brooklyn, N. Y. Outlet or overflow.	567,461	Sept. 8	1288	312	76	1532
Frank, Herman W. (See Garr, Horace S., assignor.)						
Frank, Jerome B. (See Wiswall and Frank.)						
Frank, John H., Cincinnati, Ohio. Track-cleaner.	552,661	Jan. 7	280	76	74	54
Frank, Leo. (See Huebel, Otto H., assignor.)						
Frank, Leo. (See Huebel and Manger, assignors.)						
Frank, Paul G., Cincinnati, Ohio. Puzzle.	566,854	Sept. 1	201	46	76	1321
Frank Ridlon Company. (See Doane, Francis H., assignor.)						
Frank, Saul, Gobleville, Mich. Sales and exhibiting rack.	559,795	May 12	770	185	75	842

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Frank, William M., Springfield, Ohio. Seed-dropper for corn-planters	557,987	Apr. 7	832	195	75	155
Frankel, Gotthold. (See Nichols, Benito, assignor.)						
Frankel, Julius, assignor to R. A. Chapman and T. L. Turner, New York, N. Y. Coat-hanger	559,447	May 5	176	39	75	715
Frankel, Simeon. (See Potter, Henry W., assignor.)						
Frankl, Alexander. (See Macek, Johann, assignor.)						
Franklin, Benjamin, deceased, (M. A. Franklin, administratrix,) and D. H. Fletcher, assignors of one-half to G. H. Merriell and C. R. Beach, Chicago, Ill. Electric clock	559,889	May 12	994	{ 221 222 }	{ 75 75 }	{ 884 884 }
Franklin, Henry H., Brooklyn, N. Y. Electrical pilot or signal	561,982	June 16	1637	399	75	1724
Franklin, Joseph, Philadelphia, Pa. Drain	568,195	Sept. 22	2574	619	76	1801
Franklin, Mary A., administratrix. (See Franklin and Fletcher.)						
Franklin, Reuel B., Fort Madison, Iowa. Corn cutter and shocker	558,059	Apr. 14	998	{ 243 244 }	{ 75 75 }	{ 205 205 }
Franklin, Robert L. (See Pendley, William, assignor.)						
Franklin Steel Casting Company. (See Roosevelt, James A., assignor.)						
Franklin, W. D., <i>et al.</i> (See Fobes, William E., assignor.)						
Franks, Lewis W., Buda, Tex. Baling-press	557,573	Apr. 7	82	21	75	17
Frantz, Elmer W., Cleveland, Ohio. Crutch	557,572	Apr. 7	81	20	75	17
Frantz, Ezra A., Mount Morris, Ill. Fence-stay	571,355	Nov. 17	1656	392	77	990
Frantz, Hiram A., Tamaqua, Pa. Broom-holder	555,085	Feb. 25	2292	546	74	980
Fransen, Harm H., and R. Haschemeyer, Golden, Ill. Cultivator	554,117	Feb. 4	587	132	74	611
Frasch, Herman. (See Van Dyke, John W., assignor.)						
Frasch, Herman, Cleveland, Ohio. Mining gold or like metal	565,342	Aug. 4	719	172	76	749
Frasch, Herman, Cleveland, Ohio, assignor to Solar Refining Company, of Ohio. Agitator for stills	553,191	Jan. 14	1282	310	74	254
Frasch, Herman, Cleveland, Ohio, assignor to Solar Refining Company, of Ohio. Distillation of petroleum	561,216	June 2	245	.....	75	1415
Frasch, Herman, Cleveland, Ohio, assignor to Solar Refining Company, of Ohio. Apparatus for purifying petroleum	564,920	July 28	2920	699	76	586
Frasch, Herman, Cleveland, Ohio, assignor to Solar Refining Company, of Ohio. Purifying petroleum	564,921	July 28	2922	699	76	586
Frasch, Herman, Cleveland, Ohio, assignor to Solar Refining Company, of Ohio. Process of and apparatus for refining Lima or similar petroleum	564,922	July 28	2924	700	76	587
Frasch, Herman, Cleveland, Ohio, assignor to Solar Refining Company, of Ohio. Refining Lima or similar petroleum	564,923	July 28	2933	{ 700 701 702 }	{ 76 76 76 }	{ 589 589 590 }
Frasch, Herman, Cleveland, Ohio, assignor to Solar Refining Company, of Ohio. Process of and apparatus for refining Lima or similar petroleum	564,924	July 28	2938	{ 701 702 }	{ 76 76 }	{ 590 590 }
Frasch, Herman, Cleveland, Ohio, assignor to Solar Refining Company, of Ohio. Treatment of petroleum for removing sulfur compounds	572,676	Dec. 8	1032	.....	77	1495
Frasch, Herman, Cleveland, assignor of one-half to J. W. Van Dyke, Lima, Ohio. Increasing the flow of oil-wells	556,669	Mar. 17	2127	496	74	1559
Fraser, Allan, Brooklyn, N. Y. Ventilator for bedding	555,367	Feb. 25	2788	652	74	1074
Fraser, Arthur C., Brooklyn, N. Y. Metallic railway-tie and rail-fastening therefor	558,939	Apr. 28	2504	602	75	521
Fraser, John, Detroit, Mich. Tackle-block	564,012	July 14	1359	317	76	268
Fraser, Peter, Whitman, Mass. Device for heating and lighting apartments	554,591	Feb. 11	1397	328	74	781
Fraser, Peter, Brooklyn, N. Y. Folding berth	563,852	July 14	1063	{ 251 252 }	{ 76 76 }	{ 214 214 }
Fraser, Russell, Brooklyn, N. Y. Spool-wire frame	563,154	June 30	3697	885	75	2149
Fratcher, David W., assignor of one-half to W. F. Fratcher, Detroit, Mich. Information-cabinet	558,723	Apr. 21	2124	512	75	432
Fratcher, William F. (See Fratcher, David W., assignor.)						
Fraunfelder, Paul G., Metuchen, N. J., assignor, by mesne assignments, to American Lithographic Company, of New York. Multicolor printing	565,891	Aug. 18	1720	{ 422 423 }	{ 76 76 }	{ 973 973 }
Fraumann, John H., assignor of one-half to A. J. English, Cincinnati, Ohio. Automatic railway-gate	561,509	June 2	791	193	75	1520
Fraunfelter, Emmet E., Ashville, Ohio. Railway-gate	567,340	Sept. 8	1085	261	76	1495
Frazer, John. (See Siccard and Frazer.)						
Frazer, William A., Irvington, N. J., assignor to H. Willson, Chicago, Ill. Combination stand and hanging show-card	560,899	May 26	2875	659	75	1298
Frazer, James. (See Twitchell and Frazer.)						
Frazer, Knute L. J., Winona, Minn. Shingle-planer	561,103	June 2	47	12, 13	75	1376
Frazier, Allenson, Prairie, Ind. Pneumatic straw-stacker	559,521	May 5	292	69	75	738
Frazier, Horace B., assignor to E. C. Cook & Brother, Chicago, Ill. Knuckle-pad	563,585	July 7	593	138	76	111
Frazier, Horace B., assignor to E. C. Cook & Bro., Chicago, Ill. Punching-bag support	571,874	Nov. 24	2563	{ 607 608 }	{ 77 77 }	{ 1176 1176 }
Frazier, John A., Georgesville, Ohio. Vehicle-brake	561,705	June 9	1155	275	75	1614
Frazier, Sayles J. (See Rupert and Frazier.)						
Frear, Hugo P., San Francisco, Cal. Street-annunciator	567,643	Sept. 15	1594	383	76	1604
Fréchette, Isaie, Montreal, Canada, assignor to Consolidated Hand Method Lasting Machine Company, Nashua, N. H. Lasting-machine	567,566	Sept. 8	1449	{ 348 349 }	{ 76 76 }	{ 1561 1561 }
Fréchette, Isaie, assignor to H. and J. Beaudry, Montreal, Canada. Hat-pin guide or retainer	570,627	Nov. 3	388	92	77	709
Fred Ade & Company. (See Sanger, John N., assignor.)						
Fred Dietz Company. (See Dietz, Emil, assignor.)						
Frederick, Christian, and R. L. Plumley, assignors to Trump Brothers Machine Company, Wilmington, Del. Sewing-machine	573,969	Dec. 29	3400	{ 815 816 }	{ 77 77 }	{ 1988 1988 }
Frederick, Marshall N., Canton, Ohio. Bicycle-lock	565,161	Aug. 4	394	92	76	690
Fredericks, Enoch M., Chicago, Ill. Dental excavator	567,589	Sept. 15	1504	360	76	1587
Fredericks, Gustave W., Detroit, Mich. Switch-opener	571,356	Nov. 17	1657	393	77	990
Frederickson, Christian, Cameron, Wis. Scythe	553,731	Jan. 28	2228	528	74	459
Frederickson, Lars, Pewaukee, Wis. Potato-digger	572,885	Dec. 8	1386	336	77	1563
Fredin, Per Johan, New Haven, Conn. Truss	571,969	Nov. 24	2736	646	77	1210
Fredrick, William, Toledo, Ohio, assignor to R. C. Faulconer, trustee, Detroit, Mich. Type-writing machine	570,546	Nov. 3	202	53, 54	77	675
Fredrick, William and H. W. Wachter, Toledo, Ohio, assignors to R. C. Faulconer, trustee, Detroit, Mich. Type-writing machine	570,545	Nov. 3	198	52, 53	77	674
Fredricks, William, New York, N. Y. Coin advertising device	560,900	May 26	2876	660	75	1298
Fredrickson, James. (See Steffenson, Jacob, assignor.)						
Fredrickson, August A., and J. Murray, Tokna, Mont. Castrating instrument	560,127	May 12	1438	324	75	968
Freels, Samuel C., Hollister, Cal. Regulator-faucet for liquid under pressure	563,952	July 14	1264	296	76	250
Freeman, Albert A., assignor to Specialty Novelty Company, Philadelphia, Pa. Whistling and musical rattle	553,958	Feb. 4	287	64	74	557
Freeman, Albert A., assignor to Specialty Novelty Company, Philadelphia, Pa. Nutmeg-grater	565,070	Aug. 4	182	44	76	651

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Freeman, Alson W., assignor of one-half to L. B. Stenberg, Fullerton, Nebr. Pipe-wrench.	562,719	June 23	2891	702	75	1974
Freeman, Carl A. (See Page, Charles E., assignor.)						
Freeman, Charles H., et al. (See Cummings, James F., assignor.)						
Freeman, Charles H., Philadelphia, Pa. Picture-frame hanger.	561,983	June 16	1639	399	75	1724
Freeman, Charles M., Metuchen, N. J. Bottle.	555,151	Feb. 25	2405	570	74	1002
Freeman, Charles M., Manchester, assignor of three-fourths to C. H. Merrill, Stoddard, L. A. Butler, and K. D. Pierce, Hillsborough, N. H. Clothes-holder.	557,796	Apr. 7	491	118	75	93
Freeman, Herbert H., Pierre, S. D. Safe-alarm.	570,011	Oct. 27	2268	539	77	467
Freeman, James H., Jr., Howard, Colo. Type-writing machine.	558,795	Apr. 21	2251	544	75	456
Freeman, John R., Winchester, Mass. Hose-nozzle.	568,342	Sept. 29	2828	681	76	1865
Freeman, John R., Winchester, Mass. Valve-controlling mechanism for sprinkler systems.	568,343	Sept. 29	2829	681	76	1866
Freeman, Wallace E., Long Island City, N. Y. Electric motor.	569,866	Oct. 20	2018	481	77	408
Freeman, Walter K., Fort Wayne, Ind. Electric transformer.	553,847	Feb. 4	64	13	74	516
Freeman, Walter K., Fort Wayne, Ind. Induction-machine.	554,670	Feb. 18	1545	364	74	825
Freeman, Walter K., Fort Wayne, Ind. Constant-potential alternating generator.	555,152	Feb. 25	2406	571	74	1002
Freeman, William. (See Harris and Freeman.)						
Freeman, William H., Lexington, Nebr. Insect-destroyer.	573,587	Dec. 22	2683	638	77	1841
Freeman, William L., Auburn, Ky. Pipe-wrench.	567,229	Sept. 8	863	206	76	1456
Freeman, William S., Philadelphia, Pa. Vending device.	552,523	Jan. 7	36	10	74	10
Freer, Charles S., Brooklyn, assignor to E. Todd & Co., New York, N. Y. Combination pencil-point protector.	570,922	Nov. 10	915	212	77	838
Freer, Robert, Providence, R. I. Attachment for steam-engines.	570,547	Nov. 3	207	55	77	675
Freese, Charles D., New York, N. Y. Apparatus for tipping gas-tubing.	572,419	Dec. 1	595	141	77	1391
Freese, Francis J., Montreal, Canada. Flue-scraper.	561,385	June 2	572	143	75	1180
Freese, Francis J., Montreal, Canada. Sole-splitting machine.	570,164	Oct. 27	2540	604	77	520
Freese, Francis J., Lowell, Mass. Trimmer-guide.	570,392	Oct. 27	2998	710	77	604
Freese, Jacob A., Danville, Ill. Gate.	558,060	Apr. 14	1002	244	75	205
Freese, John S., Brooklyn, N. Y. Friction-clutch.	559,972	May 12	1140	254	75	913
Frei, George B. (See Genett, Louis J., assignor.)						
Freiberg, John, et al. (See Boswell, George G. F., assignor.)						
Freir, Samuel P., Hasbrouck, N. J., assignor to Western Union Telegraph Company, New York, N. Y. Automatic telegraph.	561,547	June 2	868	209	75	1534
Freitag, Aug. C. (See Martin, Edmund D., assignor.)						
Freiwald, Gustav, assignor of one-half to L. G. Spies, Sterling, Ill. Bottled-beer steamer.	562,460	June 23	2447	594	75	1891
Frem, John B., Chicago, Ill. Actuating mechanism for coffee-mills.	564,606	July 28	2402	566	76	490
Fremaux, Edward C., Rayne, La. Automatic cut-off and filter.	562,718	June 23	2889	701	75	1974
French, Arthur S. (See Mitchell, Abram, assignor.)						
French, Henry, Elkhart, Ind. Reciprocating saw.	566,511	Aug. 25	2847	692	76	1204
French, Henry A., Providence, R. I. Apparatus for use in painting trolley-poles.	571,560	Nov. 17	2007	427	77	1053
French, Irwin J., assignor of two-fifths to L. J. Croghan and L. J. Kearney, Washington, D. C. Pipe coupling or union.	558,378	Apr. 14	1525	374	75	305
French, Lamartine M., Chicago, Ill., assignor to Everett Piano Company, Boston, Mass. Piano attachment.	554,418	Feb. 11	1107	257	74	726
French, Nelson W., Sayre, Pa. Propeller.	559,775	May 5	732	175	75	820
French, Reginald T., et al. (See Gogle, John E., assignor.)						
French, Samuel H. (See Teahen and French, assignors.)						
French, William. (See McKinney and French.)						
French, William E. (See Teahen and French.)						
French, Zachary T., Boston, Mass. Sewing-machine.	558,679	Apr. 21	2056	496	75	419
French, Zachary T., Boston, Mass. Sewing-machine.	561,386	June 2	573	143	75	1400
French, Zachary T., and W. C. Meyer, Boston, Mass. Welt-seam-trimming machine.	558,379	Apr. 14	1526	374	75	305
French, Zachary T., and W. C. Meyer, Boston, Mass. Welt-seam-trimming machine.	558,380	Apr. 14	1530	375	75	306
French, Zachary T., and W. C. Meyer, Boston, Mass. Welt-seam-trimming machine.	558,381	Apr. 14	1532	375	75	306
French, Zachary T., and W. C. Meyer, Boston, Mass. Welt-seam-trimming machine.	558,382	Apr. 14	1534	376	75	307
French, Zachary T., and W. C. Meyer, Boston, Mass. Sole-sewing machine.	563,471	July 7	395	93	76	76
French, Zachary T., and W. C. Meyer, Boston, Mass. Sole-sewing machine.	563,472	July 7	398	94	76	77
Frenzel, Joseph, New York, N. Y. Candle-holder.	568,196	Sept. 22	2575	619	76	1802
Freshour, Henry C., assignor to H. O. Canfield, Bridgeport, Conn. Basin-plug.	565,409	Aug. 4	827	196	76	770
Freud, Hannah, New York, N. Y. Corset-cover.	566,392	Aug. 25	2613	632	76	1162
Freudenberg, Moise, Paris, France, assignor to R. W. Wallace, London, England. Automatic telephone-exchange system.	556,067	Mar. 10	904	217	74	1320
Freudenberg, Sigmund. (See Leineweber, Herman, assignor.)						
Freund, Julius, London, England, and L. Sappey, Grenoble, France. Glove, boot, or apparel fastener.	573,401	Dec. 15	2319	554	77	1754
Freund, Max, New York, N. Y. Belt and skirt attachment.	560,489	May 19	2097	479	75	1187
Frey, Frank, Rochester, N. Y. Apparatus for dispersing fogs.	558,940	Apr. 28	2507	608	75	521
Frey, James A., assignor of one-half to Bonnot Company, Canton, Ohio. Brick or tile cutting machine.	554,816	Feb. 18	1794	421	74	874
Frey, John, Berkeley, Cal. Concentrator.	552,995	Jan. 14	935	226	74	189
Frey, Otto J. (See Miller, Joseph F., assignor.)						
Frey, Otto J., administrator. (See Neracher, Charles.)						
Frey, Reuben M., Bairdstown, Ohio. Pitman for oil-pumps.	563,473	July 7	399	94	76	77
Freygang, Friedrich A., New York, N. Y. Detonating toy.	560,901	May 26	2877	660	75	1298
Freyne, James, Philadelphia, Pa. Soft-tread horseshoe.	561,217	June 2	246	59	75	1415
Friant, Thomas, et al. (See Billings, George W., assignor.)						
Friant, Thomas, et al. (See Linn, Allen B., assignor.)						
Friant, Thomas, et al. (See Linn, Allen D. and A. B., assignors.)						
Friant, Thomas, et al. (See Raymond, Silas H., assignor.)						
Friant, Thomas, and A. B. Linn, assignors to said Friant, T. S. White, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper.	554,817	Feb. 18	1795	421	74	874
Frichette, Petar, Sheridan, Cal. Pumping apparatus.	567,741	Sept. 15	1756	421	76	1636
Frick, Anthony C., New York, N. Y. Game apparatus.	574,087	Dec. 29	3603	861	77	2026
Frick, Frederick A., Rochester, N. Y. Pipe-stem cleaner.	566,570	Aug. 25	2929	715	76	1221
Frick, Frederick A., assignor to Willard & Frick Manufacturing Company, Rochester, N. Y. Machine for making pipe-stem cleaners.	563,367	July 7	225	51, 52	76	46
Frick, Henry L., Wabash, assignor of one-half to H. Kohn, J. W. Chilcote, E. L. Hartman, and W. J. Cully, Willshire, Ohio. Fence-post.	554,220	Feb. 4	751	171	74	643
Frick, Joseph E., and C. H. Stoner, Fremont, Nebr. Hat-sweat.	562,817	June 30	3080	746	75	2027
Frick, Louis C. S., assignor of one-half to G. Depew, Buffalo, N. Y. Stuffing-box.	571,759	Nov. 24	2365	565	77	1139
Frick, Rudolph. (See Robinson, Frick, and Shields.)						
Frick, William C., Danville, Pa. Handle for agricultural implements.	565,887	Aug. 18	1714	420	76	972

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Fricke, Charles, assignor of one-half to I. Lievre, San Francisco, Cal. Air-tight package for baking-powders	563,366	July 7	224	51	76	46
Fridlund, Lewis. (See Johnson and Fridlund.)						
Fried, Krupp Grusonwerk. (See Mohr, Frederik, assignor.)						
Friede, Samuel M., St. Louis, Mo. Cigar-box and cabinet	565,265	Aug. 4	603	142	76	726
Friede, Samuel M., assignor of one-third to J. W. Donnell, St. Louis, Mo. Wrench	564,513	July 21	2322	521	76	440
Friede, Samuel M., Chicago, Ill., assignor of one-third to J. W. Donnell, St. Louis, Mo. Combination soft and hard metal pipe-coupling	566,855	Sept. 1	202	46	76	1321
Friede, Samuel M., Chicago, Ill., assignor of one-third to J. W. Donnell, St. Louis, Mo. Stop and waste cock	569,967	Oct. 20	2194	521	77	440
Friedheim, Arthur, Berlin, Germany. Device for stamping out cartons, &c	571,999	Nov. 24	2789	658	77	1219
Friedlander, John, St. Louis, Mo. Gas-burner	554,924	Feb. 18	1982	469	74	908
Friedlander, Joseph, assignor to J. Friedlander, San Antonio, Tex. Horse-detaching device	554,118	Feb. 4	590	133	74	611
Friedlander, Joseph, assignor to J. Friedlander, San Antonio, Tex. Combined horse-detacher and brake	557,373	Mar. 31	3378	811	74	1833
Friedlander, Josephine. (See Friedlander, Joseph, assignor.)						
Friedlein, William L., Philadelphia, Pa. Car-fender	568,302	Sept. 22	2751	662	76	1836
Friedley, George W. (See Rush, Stephen P., assignor.)						
Friedman, Aron, Chicago, Ill. Non-refillable bottle	563,713	July 7	803	192	76	150
Friedman, Edgar, assignor of one-fifth to L. Baeppler, Dobbs Ferry, N. Y. Barrel charge-ing or discharging apparatus	553,709	Jan. 28	2182	517	74	451
Friedman, Edgar, and G. R. P. Engert, Dobbs Ferry, N. Y. Barrel or package register	560,027	May 12	1247	280	75	931
Friedman, Henry, New York, and H. M. Koebel, Brooklyn, N. Y. Bottle-stopper	573,212	Dec. 15	1980	477	77	1693
Friedman, Herman S. (See Paschen, Frederick, assignor.)						
Friedman, Joe, et al. (See Rothschild, Adolph, assignor.)						
Friedmann, Louis, Vienna, Austria-Hungary. Pipe-coupling for steam and air pipes	554,255	Feb. 11	823	187 188	74	672
Friedrich, Albert A., et al. (See Gould, David W., assignor.)						
Friedrich, Frank, et al. (See Fulghum, Elisha J., assignor.)						
Friend, Silas J., and C. P. Brown, Atwater, Ill. Holdback for buggies	574,318	Dec. 29	4058	963	77	2108
Friese-Greene, William, London, England. Apparatus for photographic printing	557,119	Mar. 31	2905	694 695 252 253	74	1748
Friese-Greene, William, London, England. Photographic-printing apparatus	563,853	July 14	1070	252 253	76	215
Friese, Hans E., London, England. Safety-stand	557,660	Apr. 7	256	61	75	48
Friese, Oskar, assignor to Schippang & Wehenkel, Berlin, Germany. Photographic shutter	562,599	June 23	2693	651	75	1936
Frink, Edmund B., Oxford, Mich. Potato-digger	572,886	Dec. 8	1387	336	77	1563
Frisbee, Daniel D., Detroit, Mich. Tire-setter	567,462	Sept. 8	1289	313	76	1532
Frisbie, Henry R., Newark, assignor to Eastwood Wire Manufacturing Company, Belleville, N. J. Stop-valve	568,719	Sept. 29	3510	841	76	1993
Frisbie, Henry R., Newark, assignor to Eastwood Wire Manufacturing Company, Belleville, N. J. Whistle	571,357	Nov. 17	1658	393	77	990
Frisbie, William L., Syracuse, N. Y., assignor to Syracuse Specialty Manufacturing Company, of New York. Currycomb	564,987	Aug. 4	48	11	76	626
Frisbie, William M. (See Fleming, Patrick, assignor.)						
Frisby, J. O. (See Holmes, Charles E., assignor.)						
Frisch, Max, Berlin, Germany. Portable washing apparatus	564,878	July 28	2859	685	76	574
Frischknecht, Emil, New York, N. Y. Heat-regulator	554,671	Feb. 18	1547	365	74	825
Frischknecht, Emil, New York, N. Y. Fountain-pen	557,374	Mar. 31	3379	811	74	1833
Friswell, Edward D., Bridgeport, Conn. Congress shoe	561,706	June 9	1156	275	75	1614
Frith, Arthur J., New York, N. Y. Conveying apparatus	557,574	Apr. 7	85	21	75	18
Frith, Arthur J., New York, N. Y. Bucket conveyer	570,251	Oct. 27	2699	642 643	77	549
Fritsch, A., et al. (See Schneider, Sidney, assignor.)						
Fritsch, Lena. (See Lane, Dennis, assignor.)						
Fritsche, Edward C. (See Christiansen, Emil, assignor.)						
Fritz, George W. (See Boland and Fritz.)						
Fritz, George W. (See Wolfendale and Fritz.)						
Fritz, Louis. (See Bohy and Fritz.)						
Fritz, Louis, and A. Bohy, What Cheer, Iowa. Drilling-machine	564,879	July 28	2859	685	76	574
Fritzsche & Co., Franz. (See Ziegler, Josef, assignor.)						
Friz, August. (See Bader, Edward, assignor.)						
Frizelle, Erasmus B., Sterling, Kans. Pipe-wrench	561,578	June 9	929	222	75	1571
Frizzell, Fred J. (See Swartz and Frizzell.)						
Frizzell, William H., Golden Pond, Ky. Hame-fastener	556,536	Mar. 17	1933	451	74	1523
Froelich, Henry. (See Sturm and Froelich.)						
Froggatt, George H., Chicago, Ill. Scale or weighing beam	566,160	Aug. 18	2203	536	76	1067
Fröhlich, Albert, Toledo, Ohio. Gas-regulator	566,977	Sept. 1	428	100	76	1362
Fröhlich, Bernhard, Leipsic, Germany. Elastic steel tire	563,761	July 14	893	213	76	183
Froidevaux, Arnold, New York, N. Y. Atomizer	562,763	June 23	2965	718	75	1989
Fröland, Hans H., Iola, Wis. Automatic railway-switch	568,844	Oct. 6	215	51	77	43
Frölich, Oscar. (See Encke and Frölich.)						
Frölich, Oscar, assignor to Siemens & Halske, Berlin, Germany. Extracting noble metals from ores	556,092	Mar. 10	1079		74	1349
Froman, Arlia A. (See Moore, John J., assignor.)						
Frommter, George, et al. (See Dreisbach, Amos M., assignor.)						
Frommter, Lafayette, et al. (See Dreisbach, Amos M., assignor.)						
Fromm, Gustav P. (See Konrad, Fromm, and Kauer.)						
Frost, Charles W., Philadelphia, Pa. Lead-pencil	555,690	Mar. 3	351	80	74	1192
Frost, Floyd T., Washington, D. C. Sash-lock	566,856	Sept. 1	203	47	76	1322
Frost, Frederick E. (See Fowler, Charles M., assignor.)						
Frost, Harry L., Columbus, Ohio. Wire-fence clamp	562,385	June 23	2322	564	75	1867
Frost, John H., Six Mile, Ala. Rotary plow	569,630	Oct. 20	1595	376 377	77	332
Frost, John V., assignor of one-half to J. G. Orth, Los Angeles, Cal. Evaporative refrigerator	556,744	Mar. 24	2261	528	74	1602
Frost, Joseph W., New York, N. Y. Automatic fire-alarm	563,474	July 7	400	94, 95	76	77
Frost, Joseph W., New York, N. Y. Thermostat and circuit therefor	563,475	July 7	407	95	76	79
Frost, Joseph W., New York, N. Y. Automatic repeater	563,586	July 7	594	138	76	111
Frost, Newland E., Boston, Mass. Heating apparatus	563,368	July 7	229	52	76	47
Frost, Newland E., Boston, Mass., assignor, by mesne assignments, to Smith & Thayer Company, of Maine. Heating apparatus	557,528	Mar. 31	3652	874	74	1883
Frost, Newland E., Boston, Mass., assignor, by mesne assignments, to Smith & Thayer Company, of Maine. Heating apparatus	558,017	Apr. 7	910	227	75	171

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Frost, Newland E., Boston, Mass., assignor to E. R. Bissell, Tyrone, N. Y. Heating apparatus	569,151	Oct. 6	753	175	77	143
Frost, Thomas G., Chester, England. Grain-drying apparatus	570,989	Nov. 10	1023	239	77	857
Frost, Warren H., Chicago, Ill. Resonant musical instrument or toy	552,612	Jan. 7	189	52	74	37
Frost, William, London, England. Sole or heel plate	567,463	Sept. 8	1290	313	76	1532
Frost, William J., Moosic, Pa. Lathe for pointing miners' sprags	562,128	June 16	1889	458	75	1770
Frost, William R., and W. H. Butlin, Croton, Iowa. Seeder attachment for cultivators	556,263	Mar. 10	1396	327 328	74	1409
Frotscher, Ludolf, Zittau, Germany. Apparatus for dyeing, &c.	552,638	Jan. 7	228	63	74	45
Frowein, Otto, and W. Oberstebrink, Barmen, Germany. Woven tubular fabric	570,012	Oct. 27	2269	539	77	467
Fry, Charles A., New York, N. Y., assignor to Link-Belt Engineering Company, Philadelphia, Pa. Elevator for barrels	561,782	June 9	1297	312	75	1640
Fry, Ella F., Richmond Dale, Ohio. Tray attachment for bedsteads	566,677	Aug. 25	3087	754	76	1252
Fry, Henry E. (See David and Le Doux, assignors.)						
Fry, John H., Grand Rapids, Mich. Lawn-sprinkler	572,000	Nov. 24	2790	658	77	1219
Fry, Stephen D. (See Johnson and Fry.)						
Fry, Stephen D., Attica, and W. H. Johnson, assignors of one-third to A. F. Johnson, Veedersburg, Ind. Fence-post or columnar pillar	573,777	Dec. 22	3030	718	77	1907
Frye, Charles E., Laconia, N. H., assignor of one-half to Laconia Car Company, of New Hampshire. Transom-sash adjuster	562,075	June 16	1811	437	75	1755
Frye, James, Philadelphia, Pa. Combination tool	553,579	Jan. 28	1967	466	74	412
Frye, James, Philadelphia, Pa. Condiment-holder	553,580	Jan. 28	1968	467	74	412
Frye, James, Philadelphia, Pa. Cigar-lighter	557,375	Mar. 31	3380	812	74	1833
Frye, James, Philadelphia, Pa. Device for opening or closing doors of vehicles	566,900	Sept. 1	281	65	76	1336
Frye, James, Philadelphia, Pa. Shaving-cup	564,529	Sept. 29	3167	762	76	1927
Frye, James U., Saginaw, Mich. Organ-bellows and treadle-web clamp	562,366	June 23	2322	565	75	1867
Frye, William H., Mountain Grove, Mo. Music-leaf turner	559,375	May 5	42	10	75	688
Fryer, John W. (See Baithasar, Curt J., assignor.)						
Fryer, Robert M., Washington, D. C. Elevated railway	569,097	Oct. 6	653	151	77	125
Fryman, Nicholas, Landis, Ohio. Fence	564,607	July 28	2405	567	76	491
Fuchs, Charles K., assignor of three-fourths to V. L. Sawyer, Waterbury, Conn. Bottle stopper and fastener	573,588	Dec. 22	2685	638	77	1841
Fuchs, Charles K., assignor of three-fourths to V. L. Sawyer, Waterbury, Conn. Bottle stopper	573,589	Dec. 22	2686	638	77	1841
Fuchs, Eugene J., Brooklyn, assignor to Kampfe Brothers, New York, N. Y. Safety-razor	561,707	June 9	1157	276	75	1615
Fuchs, Jean, Porto Ferrajo, Italy. Means for destroying insects or microbes on plants	565,394	Aug. 4	787	147	76	763
Fuchs, William F., Galena, Ill. Cigar-box	554,592	Feb. 11	1399	329	74	782
Fuerstenberg, Samuel, New York, N. Y. Stool	561,880	June 9	1460	352	75	1671
Fuerth, George, Detroit, Mich. Device for sealing preserving-jars	561,783	June 9	1300	312	75	1641
Fugate, Edward G., Franklin, Ind. Singletree	567,230	Sept. 8	864	206	76	1456
Fuhrmann, John T., and J. M. Daugherty, St. Paul, Minn. Flue-expander	555,915	Mar. 3	730	176 177	74	1265
Fuhrmann, Theodore, Milwaukee, Wis. Measuring-tank for oils, &c.	568,022	Sept. 22	2261	547	76	1744
Fulcher, Louis, et al. (See Smith, Wilson W., assignor.)						
Fulcher, William H., assignor of one-half to J. J. Tully, Stockton, Cal. Excavator	558,452	Apr. 14	1662	399 400	75	332
Fulcrum Manufacturing Company. (See Hopper, William W., assignor.)						
Fulford & Hobart. (See Shepard, James G. W., assignor.)						
Fulghum, Elijah C., et al. (See Fulghum, Elisha J., assignor.)						
Fulghum, Elisha J., assignor of two-thirds to E. C. Fulghum and F. Friedrich, Traverse City, Mich. Electric-light support	573,817	Dec. 22	3096	736	77	1919
Fuller, Allen J. (See Conner, MacMillan, and Fuller.)						
Fuller, Charles D. (See Wood, Thomas E., assignor.)						
Fuller, Edgar L., Everett, Mass. Furniture	555,945	Mar. 10	794	191	74	1298
Fuller, Frank, and J. M. Kinney, Boston, Mass. Conduit for electric conductors	554,631	Feb. 11	1481	346	74	796
Fuller, Frank P., Mount Vernon, Ohio. Grate for furnaces, &c.	565,888	Aug. 18	1715	420	76	972
Fuller, George H., Gresham, Nebr. Drill	562,667	Sept. 22	2345	566	76	1758
Fuller, Henry F., Chicago, Ill. Fluid-pressure-reducing apparatus	573,213	Dec. 15	1981	477	77	1694
Fuller, Henry F., assignor to Walmsley, Fuller & Company, Chicago, Ill. Acetylene-gas generator	560,405	May 19	1950	445	75	1110
Fuller, Henry F., assignor to Walmsley, Fuller & Company, Chicago, Ill. Acetylene-gas generator	566,901	Sept. 1	282	66	76	1336
Fuller, Henry F., assignor to Walmsley, Fuller & Company, Chicago, Ill. Burner apparatus for acetylene gas	566,902	Sept. 1	284	66	76	1337
Fuller, Henry F., assignor to Walmsley, Fuller & Company, Chicago, Ill. Burner for acetylene gas	571,875	Nov. 24	2565	608	77	1177
Fuller, James M., assignor to E. H. Gregory and J. O. Humphrey, Sioux Falls, S. D. Steering connection for vehicles	552,524	Jan. 7	37	11	74	10
Fuller, James T., Calvert, Tex. Grate-bar	569,375	Oct. 13	1138	271	77	234
Fuller, James W., St. Paul, Minn. Laundry blue	553,556	Jan. 28	1918		74	403
Fuller, Lawson M. (See Preston, Guy H., assignor.)						
Fuller, Lawson M., assignor of one-fourth to G. H. Preston, U. S. Army. Wind-gage for sights	564,514	July 21	2223	522	76	440
Fuller, Levi K., Brattleborough, Vt. Organ-bench	554,672	Feb. 18	1548	365	74	825
Fuller, Oscar B., Duane, N. Y. Thorough-brace for vehicles	569,451	Oct. 13	1259	296	77	254
Fuller, Robert, Ewhurst, England. Stump for holding hop-training strings	553,235	Jan. 21	1357	330 331	74	283
Fuller, Samuel B. (See Miller, Lee A., assignor.)						
Fuller, Stuart B., Detroit, Mich. Book-holder	564,608	July 28	2405	567	76	491
Fuller & Warren Company. (See Dugan and Bailey, assignors.)						
Fuller, William C., assignor to Farlin & Orendorf Company, Incorporated, Canton, Ill. Plow	556,344	Mar. 17	1567	367	74	1454
Fullerton, George A., Cambridge, assignor to J. E. Maynadier, trustee, Taunton, Mass. Musical instrument	557,661	Apr. 7	256	62	75	48
Fullerton, George A., Boston, assignor to J. E. Maynadier, trustee, Taunton, Mass. Stringed musical instrument	557,662	Apr. 7	257	62	75	49
Fulmer, John D., et al. (See McCann, William B., assignor.)						
Fulson, Charles H., and J. M. Doyle, Vidalia, La. Marlinespike	563,155	June 30	3698	885	75	2149
Fulton, Albert L., San Mateo, and T. W. Petersen, San José, Cal. Brick-carrier	567,464	Sept. 8	1291	313	76	1532
Fulton Engineering and Ship Building Works. (See Grigsby, Robert F., assignor.)						
Fulton, H. H. (See Abernethy, Harry M., assignor.)						
Fulton, Mahlon, Philadelphia, Pa. Car-fender	556,410	Mar. 17	1691	394 395	74	1476
Fulton, Samuel M., and A. T. Ames, Galt, Cal. Pump-power	571,086	Nov. 10	1199	281	77	890

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Funk, Daniel D., Springfield, Ohio. Cultivator	570,281	Oct. 27	2756	656	77	531
Funk, Edward, Cincinnati, Ohio. Adjustable pole for carriages	567,707	Sept. 15	1697	408	76	1625
Funk, Levi L., Chicago, Ill. Elastic bottle	560,984	May 26	3000	691	75	1322
Funk, Nelson E., assignor of one-half to Emmerich & Vonderlehr, New York, N. Y. Automatic paper-feeding machine	574,199	Dec. 29	3849	918	77	2068
Funk, W. H. (See Hofmann, John, Jr., assignor.)						
Funkhouser, John B., New Brighton, Pa. Nut-lock	559,696	May 5	583	137	75	793
Fürbringer, Johann, Schirnding, assignor to J. E. Winzer, Hamburg, Germany. Muffle-furnace	560,157	May 12	1487	336	75	977
Farbush, Frank L., assignor to F. G. and A. C. Sargent, Graniteville, Mass. Conveyer	561,162	June 2	154	40	75	1396
Fargason, James, Odessa, N. Y. Combination-ladder	570,469	Nov. 3	50	12	77	648
Farlong, Thomas, St. Louis, Mo. Seal-lock	558,941	Apr. 23	2508	609	75	521
Furnas, Robert W., Indianapolis, Ind. Street-cleaner	564,013	July 14	1361	317	76	269
Furness, Frank, Philadelphia, Pa. Interlocking tile	565,734	Aug. 11	1445	352	76	904
Furrell, Edward W., St. Louis, Mo. Picture-frame	561,075	May 26	3149	728	75	1350
Fürst, Maximilian, Berlin, Germany. Station-indicator	572,977	Dec. 15	1571	377	77	1615
Furstenau, Martin C., assignor of one-half to E. S. Bryant, Detroit, Mich. Trolley-wheel	566,161	Aug. 18	2205	537	76	1067
Furstenfeld, Valentine. (See Powers and Furstenfeld.)						
Fuson, J. W., <i>et al.</i> (See King, Calvin W., assignor.)						
Fyfe, Charles, <i>et al.</i> (See Baker, James D., assignor.)						
Fyfe, Peter, Glasgow, Scotland. Wheel for road-vehicles	558,796	Apr. 21	2254	545	75	456
Fyke, Charles V. (See Barr, John H., assignor.)						
Fyrberg, Andrew. (See Johnson and Fyrberg.)						
Fyrberg, Andrew, assignor to I. Johnson, Worcester, Mass. Lock for revolvers	566,393	Aug. 25	2614	639	76	1162
Gaar, Scott & Company. (See Campbell, Howard and W. H., assignors.)						
Gabel, Henry M., Cincinnati, Ohio. Corroding-pot	554,673	Feb. 18	1549	365	74	826
Gabel, Theodore W., Lancaster, Pa. Electric switch	556,264	Mar. 10	1397	328	74	1409
Gabel, Theodore W., Lancaster, Pa. Window	573,402	Dec. 15	2320	554 555 593 594	77	1754
Gable, George W., Luzerne, Pa. Nursery-chair	568,134	Sept. 22	2475	593 594	76	1783
Gable, William F., <i>et al.</i> (See Kennedy, James M., assignor.)						
Gabler, Ferdinand, Topeka, Kans. Car-brake	554,593	Feb. 11	1400	329	74	782
Gabrio, Alfred W., Hazelton, Pa. Oiling device for trolley-wheels	567,783	Sept. 15	1822	437	76	1649
Gackeler, John A., assignor to B. Van Arroy, Grand Rapids, Mich. Kettle lifter and drainer	566,512	Aug. 25	2248	692	76	1205
Gaddes, Thomas, Harrowgate, England. Tea or coffee pot strainer	569,188	Oct. 13	805	188	77	169
Gaertner, August H. (See Dicke and Gaertner.)						
Gaetano, Stephen de, Brooklyn, N. Y. Billiard and pool table	562,818	June 30	3082	746	75	2027
Gaff, Samuel, Greencastle, Pa. Saw-brace	561,984	June 16	1639	399	75	1725
Gaffney, Charles H., Gloucester, Mass. Brake-handle	553,248	Feb. 4	65	13	74	517
Gaffney, James, <i>et al.</i> (See Harvey, William F. H., assignor.)						
Gafney, Edward F., New York, N. Y. Device for moistening postage-stamps, &c	565,974	Aug. 18	1900	461	76	1010
Gage, Charles F., Schuylerville, N. Y. Sanding apparatus for locomotives	566,857	Sept. 1	204	47	76	1322
Gage, Seth H., assignor to J. Neal and C. F. Bolser, Amesbury, Mass. Carriage	560,706	May 26	2519	578 579	75	1230
Gage, Stuart M. (See Mackinnon and Gage.)						
Gageby, James H., U. S. Army. Intrenching-tool	557,988	Apr. 7	824	196	75	155
Gagel, J. G. (See Bolin, Hezekiah M.)						
Gagnieur, Philibert, Lyons, France. Paper-bordering machine	553,906	Feb. 4	186	39	74	540
Gagnon, Peter. (See Ahearn, William F., assignor.)						
Gagnon, William J., Fremont, N. H. Lamp-extinguisher	563,953	July 14	1265	296	76	250
Gahlau, Emil, Detroit, Mich., assignor to P. R. Wagon, Springfield, Mass. Combined guard and stand for incandescent electric lamps	566,257	Aug. 18	2396	588	76	1105
Gaide, Carl J. W., Fort Wayne, Ind. Artificial fishing-bait	567,310	Sept. 8	1026	246	76	1485
Gaiennie, Alphonse F., Lafourche, La. Apparatus for treating juice and vapor	564,481	July 21	2175	510	76	432
Gaiennie, Alphonse F., Lafourche, assignor of one-third to J. V. Leche, Thibodeaux, La. Separator	567,894	Sept. 15	2008	462	76	1686
Gaiennie, Alphonse F., Lafourche, assignor of one-third to J. V. Leche, Thibodeaux, La. Separator	567,895	Sept. 15	2009	462	76	1686
Gaiennie, Alphonse F., Lafourche, assignor of one-third to J. V. Leche, Thibodeaux, La. Separator	570,790	Nov. 3	672	154	77	762
Gailey, John K., <i>et al.</i> (See Pendry, William A., assignor.)						
Gailey, John K., Detroit, assignor, by mesne assignments, of one-half to C. A. Dunbar, Southfield, Mich. Inhaler	552,901	Jan. 14	776	188	74	159
Gaillard, Ella N., Brooklyn, N. Y. Clasp for garment-supporters	555,946	Mar. 10	796	191	74	1298
Gaillot, Paul H. A., Lille, France. Apparatus for purifying water	563,660	July 7	701	166 167 167	76	132
Gaines, Charles A., assignor of one-fourth to G. H. Gillette, New York, N. Y. Conduit system for electric railways	552,755	Jan. 7	461	115 116	74	87
Gaines, Egbert S., Chicago, Ill. Time-recorder	561,985	June 16	1640	399	75	1725
Gaither, David A., Williston, Tenn. Pea thresher and separator	566,571	Aug. 25	2930	715 716	76	1221
Gajardo, Adrian, Valparaiso, Chile. Turnstile	562,293	June 16	2159	525	75	1821
Gajewski, Stefan von, and L. Braun, Dresden, Germany. Automatic point or switch apparatus for railways	554,256	Feb. 11	825	188	74	672
Galbraith, Cora A., Denver, Colo. Fender for rockers	556,411	Mar. 17	1695	395	74	1479
Galbraith, David R. S., assignor of one-third to S. C. Macky and A. M. Myers, Auckland, New Zealand. Extracting gold and silver from ores, &c	553,115	Jan. 14	1149		74	230
Galbraith, George J., assignor to Electric Gas Lighting Company, Boston, Mass. Electric hand-lighting gas-burner	562,691	June 30	3220	778	75	2055
Galbraith, George J., assignor to Electric Gas Lighting Company, Boston, Mass. Electric hand-lighting gas-burner	567,971	Sept. 22	2148	517	76	1724
Gale, Herbert N., Bristol, Conn. Ball-bearing trolley-pulley	569,631	Oct. 20	1597	377	77	333
Gale, Horace B., San Francisco, Cal. Distribution and regulation of power	565,138	Aug. 4	347	82, 83 130 131	76	682
Gale, Horace B., San Francisco, Cal. Valve mechanism	570,727	Nov. 3	564		77	743
Gale, Horace B., New York, N. Y. Method of and means for electric regulation of power	565,139	Aug. 4	352	83	76	683
Gale, John M., <i>et al.</i> (See Kennel, Joseph A., assignor.)						
Gale, John M., Eaton, and O. A. Gale, West Alexandria, Ohio. Machine for grading and assorting leaf-tobacco	569,189	Oct. 13	806	189 190	77	169
Gale, Oscar A. (See Gale, John M. and O. A.)						
Galichier, Jules V., Paris, France. Book-binder's gluing-machine	567,742	Sept. 15	1756	421	76	1636
Gall, Albert, Indianapolis, Ind. Hose-stand	561,986	June 16	1642	400	75	1725
Gallager, Alexander J., Moore, Pa., and G. Langbein, Westville, N. J. Memorandum-book	563,762	July 14	894	213	76	183

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Gallagher, Henry, Savannah, Ga. Car-coupling	558,061	Apr. 14	1002	244	75	205
Gallagher, Edward G., South Framingham, Mass. Boot or shoe	572,887	Dec. 8	1388	336	77	1563
Gallagher, George S., et al. (See Wright and Preston, assignors.)						
Gallagher, Henry, et al. (See Wright and Preston, assignors.)						
Gallagher, Hugh, New York, assignor to L. Deechan, Brooklyn, N. Y. Two-compartment bottle	559,697	May 5	584	138	75	793
				{ 490 491 492 }	{ 77	1061
Gallagher, Richard D., Jr., Chicago, Ill. Coin-controlled mechanism for telephones	571,590	Nov. 17	2052			
Gallaber, Phil., et al. (See Locke, William F., assignor.)						
Galland, Alden C. (See Temple, Robert, assignor.)						
Gallanore, Charles E., Moore, assignor of one-third to C. B. Haley, Oklahoma, Okla. Ter. Car-coupling	565,735	Aug. 11	1447	353	76	905
Galleazzi, Joseph, San Francisco, Cal. Accordion	566,269	Aug. 18	2367	580	76	1100
Gallien, Peter, assignor to himself and E. M. Clark, New Haven, Conn. Car-coupling	560,158	May 12	1488	{ 336 337 }	{ 75	977
Galligan, Thomas, assignor of one-half to J. G. Porter, Bradford, Ohio. Car-coupling	567,465	Sept. 8	1293	313	76	1533
Gallinowsky, Hugo, Longbeach, Miss. Means for protecting piles from aqueous insects	571,654	Nov. 17	2157	518	77	1081
Gallois, Moritz von. (See Ullrich and Gallois.)						
Galloway, Byron S., Great Bend, Pa. Holder for pens and pencils	554,257	Feb. 11	827	189	74	673
Galloway, Frank C. (See Mullin and Galloway.)						
Galloway, Joseph, Blackburn, England. Lappet-loom	570,791	Nov. 3	674	155	77	762
Galloway, Robert, Buffalo, N. Y. Speed-gearing for grain-drills	571,224	Nov. 10	1429	334	77	932
Gallsworthy, Frank, Leeds, England. Means for lighting billiard-tables	574,027	Dec. 29	3499	836	77	2006
Galpin, Samuel A., assignor to New Haven Clock Company, New Haven, Conn. Clock-bell	573,778	Dec. 22	3031	718	77	1907
Galt, John, and A. P. Rankin, assignors of one-half to P. R. Wright, Toronto, Canada. Adjustable handle-bar	567,853	Sept. 15	1951	{ 467 468 }	{ 76	1674
Galt, Smith P. (See Terry, Samuel H., assignor.)						
Galt, Thomas A., Sterling, Ill. Corn-harvester	572,749	Dec. 8	1176	{ 282 283 }	{ 77	1521
Gambetta, John, Stockton, Cal. Construction and propulsion of vehicles	573,214	Dec. 15	1984	477	77	1694
Gamble, Harry L., Perry, Iowa. Caster	568,023	Sept. 22	2362	547	76	1744
Gamble, Howard, Leavenworth, Kans. Nut lock	560,028	May 12	1249	280	75	931
Gamble, John A., assignor of one-half to D. E. Cason, Ashville, Ala. Device for lowering boats	560,490	May 19	2098	{ 479 480 }	{ 75	1137
Gamble, John P., Lansing, Kans. Nut-lock	562,600	June 23	2695	651	75	1936
Gamble, Joseph W., Des Moines, Iowa. Draft-equalizer	561,076	May 26	3150	728	75	1350
Gamble, Thomas H., Louisville, Ky. Pocket-recorder	560,204	May 19	1580	358	75	1045
Gamble, Thomas H., Louisville, Ky. Pocket-recorder	560,205	May 19	1581	358	75	1046
Gamble, W. E. (See McGinnis, Rowley, and Bean, assignors.)						
Gambrell, James F., Honea Path, S. C. Harness attachment	570,548	Nov. 3	209	55	77	676
Gamewell Fire-Alarm Telegraph Company. (See Cornell, Charles W., assignor.)						
Gammell, William A., Draper, Utah. Sash-fastener	573,509	Dec. 22	2550	604	77	1814
Gammons, Ferdinand C., assignor to Eagle Cotton Gin Company, Bridgewater, Mass. Cotton-baling press	553,486	Jan. 21	1788	426	74	362
Gammons, Welcome P., Jr., New York, N. Y. Machine for sewing sweat-bands into hats	566,858	Sept. 1	206	47, 48	76	1322
Gammons, Welcome P., Jr., New York, N. Y., assignor of one-half to G. S. Bracher, Rahway, N. J. Seam for sewed articles	555,478	Feb. 25	2992	712	74	1112
				{ 713 714 715 }	{ 74	1112
Gammons, Welcome P., Jr., New York, N. Y., assignor of one-half to G. S. Bracher, Rahway, N. J. Machine for sewing hats	555,479	Feb. 25	2993			
Gandee, Floyd C. (See Lowe and Gandee.)						
Gandy, George S. (See Engström, Axel H., assignor.)						
Ganelin, Solomon, Philadelphia, Pa. White-pigment substitute for white lead and making same	558,942	Apr. 28	2510		75	532
Gann, William D. (See Morano and Gann.)						
Gannon, Robert M., assignor of one-half to B. F. Davis, San Felipe, Tex. Hook for spoon-handles	574,145	Dec. 29	3713	885	77	2045
Gans, Milton H., et al. (See Buxbaum, Karl, assignor.)						
Gans, Walter S., et al. (See Buxbaum, Karl, assignor.)						
Ganson, John F., Lodge Pole, Nebr. Hand-planter	571,614	Nov. 17	2094	503	77	1069
Ganswindt, Albert, Aix-la-Chapelle, assignor to Firm of C. H. Boehringer Sohn, Nieder Ingelheim, Germany. Mordanting textile fabrics	568,344	Sept. 29	2832		76	1866
Ganswindt, Hermann, Schöneberg, Germany. Tread-gear	562,956	June 30	3358	{ 807 808 241 212 }	{ 75	2084
Gantt, Henry L., Chester, Pa. High-temperature furnace	559,940	May 12	1087		{ 75	899
Ganzenmüller, Adolf, New York, N. Y. Scuttle-hole protector	569,867	Oct. 20	2018	421	77	408
Garant, Henry, assignor to W. D. Huse, Laconia, N. H. Knitting-machine	559,327	Apr. 28	3243	783	75	660
Garben, Adolph F. C., Chicago, Ill. Baby-carriage	558,062	Apr. 14	1004	244	75	205
Garber, Jesse B., assignor to Deming Company, Salem, Ohio. Rotary pump	567,089	Sept. 1	632	146	76	1402
Garber, John L., Sidney, Ohio. Electric type-writing machine	554,594	Feb. 11	1401	329	74	782
Garber, Robert I. (See Hartsock, Joseph S. B., assignor.)						
Gardam, Joseph. (See Buckingham, Gardam, and Germann.)						
Gardam, Joseph W. A. (See Buckingham, Gardam, and Germann.)						
Garden, Emanuel C., Jacksonville, Ill. Tug	561,387	June 2	574	143	75	1480
Garden, John A., Romeville, Ill. Stone cutting, dressing, and finishing machine	565,892	Aug. 18	1724	423	76	974
Gardiner, Harry K., assignor to himself and G. N. Morse, Worcester, Mass. Machine for trimming ends of shoe-lasts	555,912	Mar. 3	726	175	74	1264
Gardner, Charles F. (See Dorman, William H., assignor.)						
Gardner, Charles H., assignor to C. H. Numan, Philadelphia, Pa., and J. C. Arter, New York, N. Y. Inkstand	567,383	Sept. 8	1165	279	76	1508
Gardner, Charles M., et al. (See Young, John R., assignor.)						
Gardner, George, Winsted, Conn. Pocket-knife	569,452	Oct. 13	1259	296	77	254
Gardner, George M. (See Pitney and Gardner.)						
Gardner, George W., and L. Appleton, Philadelphia, Pa. Sash-fastener	555,368	Feb. 25	2789	653	74	1074
Gardner, J. H. (See Bowman, Ross, assignor.)						
Gardner, Jefferson M., Nashville, Tenn. Machine for bolting and cleaning cotton	556,179	Mar. 10	1238	{ 289 290 }	{ 74	1378
Gardner, Jefferson M., New London, Conn. Pneumatic device for elevating and distributing seed-cotton	556,180	Mar. 10	1240	290	74	1378
Gardner, John, assignor to Winchester Repeating Arms Company, New Haven, Conn. Paper-shell cartridge	563,157	June 30	3700	885	75	2150
Gardner, John, assignor to Winchester Repeating Arms Company, New Haven, Conn. Primer	572,888	Dec. 8	1389	336	77	1563

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Gardner, John H., Dalton, Ga. Pea-thresher	570,282	Oct. 27	2759	657	77	561
Gardner, Joseph N., et al. (See Hardesty, Hale, and Welch, assignors.)						
Gardner, Joseph N., assignor of one-half to C. West, Tuckerman, Ark. Button	570,872	Nov. 3	829	192	77	793
Gardner, Levi S., New Orleans, La. Igniter for explosive-engines	562,720	June 23	2892	702	75	1974
Gardner, Levi S., assignor of one-half to J. C. Wenck, New Orleans, La. Vapor-motor	558,943	Apr. 28	2511	609	75	522
Gardner, Morland R. (See Murphy, John E., assignor.)						
Gardner, Perry G., assignor of seven-sixteenths to H. V. S. Negus, Bound Brook, N. J. Sprocket wheel and chain	566,750	Sept. 1	31	8	76	1286
Gardner, Richard M., Chicago, Ill. Armature for electric machines	553,557	Jan. 28	1919	454	74	403
Gardner, Richard W., et al. (See Hultgren, William H., assignor.)						
Gardner, S. Porter. (See Cox, Charles H., assignor.)						
Gardner, Thomas F., and M. J. Carney, Pittston, Pa. Car-fender	553,849	Feb. 4	66	14	74	517
Gardner, Warren D., Oswego, N. Y. Shaft-liner	563,226	June 30	3823	916	75	2172
Gardy, Henry D., Chester, Pa. Car-fender	561,218	June 2	247	59	75	1415
Gare, Thomas, Stockport, assignor of one-half to T. S. Hardeman, Manchester, England. Machine for making coils for lock-nuts	561,579	June 9	930	222	75	1571
Garford, Arthur L., Elyria, Ohio. Bicycle-saddle	568,973	Oct. 6	439	98	77	85
Garford, Arthur L., Elyria, Ohio. Bicycle-saddle	568,974	Oct. 6	441	98	77	85
Garford, Arthur L., Elyria, Ohio. Bicycle-saddle	571,113	Nov. 10	1258	292	77	900
Gargare, Louis. (See Rodwell and Gargare.)						
Garing, Adolph, assignor of one-half to J. Oehler, Carlstadt, N. J. Electric signaling apparatus	568,606	Sept. 29	3310	794	76	1854
Garl, Manious, Akron, Ohio. Combined annunciator and fire-alarm	563,269	July 7	63	15, 16	76	13
Garl, Manious, Akron, Ohio. Telephoning from cars	555,385	Aug. 4	787	188	76	763
Garl, Manious, assignor of one-half to G. W. La Vigne, Akron, Ohio. Telephone	555,239	Feb. 25	2553	600	74	1030
Garland, John W., Wilkensburg, Pa. Chain-link	565,445	Aug. 11	889	210	76	801
Garlock, Olin J., Rochester, assignor to Garlock Packing Company, Palmyra, N. Y. Piston-rod packing	572,053	Nov. 21	2886	681	77	1237
Garlock, Olin J., Rochester, assignor to Garlock Packing Company, Palmyra, N. Y. Piston-rod packing	574,353	Dec. 29	4122	978	77	2120
Garlock Packing Company. (See Garlock, Olin J., assignor.)						
Garner, Frank E., Cornwall, Conn. Can-opener	555,315	Feb. 25	2700	632	74	1057
Garnes, Mollie S., and G. H. Zimmerman, Pocahontas, Va.; said Garnes assignor to said Zimmerman. Washboard	554,177	Feb. 4	692	156	74	632
Garnier, Edmond, and S. J. Prescott, London, England. Horse-collar	555,087	Feb. 25	2293	547	74	980
Garnier, Franz X. von, Bremen, Germany. Snow-melting cart	553,401	Jan. 21	1648	394	74	336
Garnsey, Frederick A., Cordaville, Mass. Heddle-rod tightener	555,086	Feb. 25	2293	546	74	980
Garr, Horace S., assignor of one-third to H. W. Frank, Los Angeles, Cal. Nail-setting hammer and means for charging same with nails	554,595	Feb. 11	1404	329 } 330 }	74	783
Garrahan, Peter, et al. (See Blascow, David H., assignor.)						
Garraux, Frederick, assignor to Winship Machine Company, Atlanta, Ga. Cotton-press	561,661	June 9	1065	257	75	1596
Garred, Ulysses A., assignor of three-fourths to C. E. Tipton, W. N. Cropper, and C. F. Aldrich, Lexington, Ky. Machine for generating gas	568,672	Sept. 29	3434	322	76	1978
Garrels, William L., St. Louis, Mo. Fall-rope carrier	569,127	Oct. 6	697	163	77	133
Garretson, William M., Tecumseh, Nebr. Gate	554,674	Feb. 18	1550	366	74	826
Garrett, John W., Sr., Spartanburg, S. C. Hydraulic engine	562,721	June 23	2893	702 } 703 }	75	1975
Garrett, William. (See Street and Garrett.)						
Garrison, Abram, Jr. (See Barr, Frederic, assignor.)						
Garrison, Andrew D. (See Biddle, Lemuel D., assignor.)						
Garrison, Frank P. (See Smith and Garrison.)						
Garrison, George B., Jordan, N. Y. Packing device	555,764	Mar. 3	465	111	74	1214
Garrison, Samuel W., Philadelphia, Pa. Gas or water switch	573,403	Dec. 15	2321	555	77	1754
Garrood, John C., Lynn, Mass. Drive-chain	569,632	Oct. 20	1597	378	77	333
Gartner, Alfred. (See Faber du Faur and Gartner.)						
Gartner, Alfred, Newark, assignor to R. Atherton, Paterson, N. J. Shuttle-box-supporting rod	554,258	Feb. 11	828	189	74	673
Gartner, Alfred, Newark, assignor to R. Atherton, Paterson, N. J. Shuttle-box-operating mechanism for looms	556,968	Mar. 24	2643	621 } 622 }	74	1673
Gartner, Alfred, assignor to C. H. McIntire, Newark, N. J. Wire-connector	561,388	June 2	574	144	75	1480
Gartner, Alfred, assignor to C. H. McIntire, Newark, N. J. Wire-connector	569,752	Oct. 20	1835	436	77	374
Gartner, Alfred, assignor of three-fourths to C. H. McIntire, Newark, N. J. Wire-connector	569,753	Oct. 20	1836	436	77	374
Gartner, Alfred, Newark, assignor of one-half to F. W. Wentworth, Paterson, N. J. Chemical-receptacle for hose, sprayers, or sprinklers	563,156	June 30	3699	885	75	2149
Gartner, Alfred, Newark, N. J., assignor to P. S. Page, Scranton, Pa. Street-sweeper	572,790	Dec. 8	1244	301	77	1533
Gartner, Alfred, Newark, N. J., assignor to P. S. Page, Scranton, Pa. Street-sweeper	572,791	Dec. 8	1245	301	77	1534
Gartner, Alfred, Newark, N. J., assignor to R. Baker and J. Filmer, Brooklyn, and E. L. Ryder, Sing Sing, N. Y. Telephone	569,018	Oct. 6	523	120	77	99
Gartner, Alfred, Newark, N. J., assignor to R. Baker, J. Filmer, Brooklyn, and E. L. Ryder, Sing Sing, N. Y. Adjustable telephone-transmitter	570,204	Oct. 27	2614	621	77	534
Gartner, Alfred, Newark, N. J., assignor to Sawyer Spindle Company of Maine, Portland, Me. Spindle-support	570,205	Oct. 27	2615	621	77	534
Gartshore, William M., London, Canada. Creamer gage or indicator	554,259	Feb. 11	829	189	74	673
Gartside, William N., Richmond, Ind. Metallic dowel-pin for pattern-makers	573,790	Dec. 29	3405	816	77	1989
Garven, William H., Portland, Ore. District-telegraph call-box	560,093	May 12	1381	311	75	957
Garver, Charles, Fort Wayne, assignor of one-half to O. R. Yerks, Chamberlain, Ind. Saw-swage	562,521	June 23	2538	617	75	1908
Garvey, John C., Erlanger, Ky. Bicycle attachment	558,681	Apr. 21	2059	496 } 497 }	75	420
Garvin Machine Company. (See McClellan, Edward J., assignor.)						
Garvin Machine Company. (See Schrader, Frederick, assignor.)						
Gary, Albert J., Denison, Iowa. Folding box	572,537	Dec. 8	783	187	77	1442
Gas-Motoren-Fabrik-Deutz. (See Schumm, Hermann, assignor.)						
Gaschlin, Frederick G., assignor of one-third to J. Maas, San Francisco, Cal. Letter-box	570,628	Nov. 3	389	92	77	710
Gascoine, James. (See Weber, Albert R., assignor.)						
Gaskill, Daniel W., Little Rock, Ark., assignor, by mesne assignments, to G. N. Todd, trustee, New York, N. Y. Cotton-picker	555,691	Mar. 3	352	81, 82	74	1193
Gaston, George B. (See Anderson, Arnold G., assignor.)						
Gaston, Isaac. (See Christian, William, assignor.)						
Gaston, James M., Louisville, Ky. Bicycle rest or support	559,698	May 5	585	138	75	793
Gatchell, E. E. (See Miller, John, assignor.)						
Gates, Charles W., Elgin, Ill. Soap-frame	573,459	Dec. 22	2471	586	77	1900
Gates, Elmer, Philadelphia, Pa. Electrically-operated shedding mechanism for looms	565,446	Aug. 11	889	210 } 211 }	76	801

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Gates, Elmer, Philadelphia, Pa. Electrically-operated Jacquard mechanism for looms.....	565,447	Aug. 11	892	{ 211 212 213 214 }	76	802
Gates, Elmer, Philadelphia, Pa. Electrically-operated reed for looms	565,448	Aug. 11	895	{ 212 213 214 }	76	802
Gates, Elmer, Philadelphia, Pa. Magnetic shuttle-motion for looms	565,449	Aug. 11	898	{ 212 213 214 }	76	803
Gates, Eugene N., Holliston, assignor to H. F. Coggs and W. E. Putney, Fitchburg, Mass. Work-holding device	573,325	Dec. 15	2194	525	77	1731
Gates, George P., and G. Thauer, Watertown, Wis. Attachment for force-feed faucets	562,892	June 30	3221	778	75	2055
Gates, Henry L., assignor to Utility Manufacturing Company, Milwaukee, Wis. Bobbin or analogous device	556,745	Mar. 24	2261	529	74	1602
Gates, Henry L., assignor to Utility Manufacturing Company, Milwaukee, Wis. Jacketed can	557,308	Mar. 31	3262	782	74	1810
Gates, Henry L., assignor to Utility Manufacturing Company, Milwaukee, Wis. Jacketed can	571,724	Nov. 17	2278	547	77	1104
Gates Iron Works. (See Carman, Charles L., assignor.)						
Gates, Louis W. (See Gates, William and L. W.)						
Gates, Marcus A., Philadelphia, Pa. Suit-hanger	556,814	Mar. 24	2391	562	74	1626
Gates, Olu, Estherville, Iowa. Hog catching and lifting machine	572,792	Dec. 8	1247	301	77	1534
Gates, Thomas C. (See Bigelow and Gates.)						
Gates, William, Woodbridge, and L. W. Gates, West Haven, assignors of one-third to G. H. Smith, New Haven, Conn. Safety gas-burner	569,868	Oct. 20	2019	{ 481 482 }	77	408
Gates, William H., Worcester, Mass. Magazine-pistol	566,513	Aug. 25	2849	693	76	1205
Gatewood, Frances B., administratrix. (See Stahl and Gatewood.)						
Gatewood, Isham F. (See Stewart and Gatewood.)						
Gatewood, Richard. (See Stahl and Gatewood.)						
Gathany, William, Churndan, Iowa. Automatically-closing weather-strip for doors	566,162	Aug. 18	2206	537	76	1068
Gathmann, Louis, Chicago, Ill. Submarine vessel	563,714	July 7	804	192	72	151
Gathmann, Louis, Chicago, Ill. High-explosive projectile and gun for throwing same	569,190	Oct. 13	812	190	77	171
Gathmann, Louis, Chicago, Ill. Projectile and gun for throwing same	569,191	Oct. 13	813	191	77	171
Gathmann, Louis, Chicago, Ill. High-explosive shell	569,192	Oct. 13	816	191	77	171
Gathmann, Louis, assignor to D. T. McMullen, Chicago, Ill., J. B. McMullen, New York, N. Y., G. W. McMullen, Picton, Canada, D. S. and R. B. McMullen, Evanston, Ill. Rotary gas-engine	570,470	Nov. 3	51	{ 12, 13 222 223 }	77	648
Gathright, Albert P., Meridian, Miss. Gin-saw filer and gummer	561,580	June 9	931	{ 222 223 }	75	1571
Gathright, John R., Louisville, Ky. Side bar for open cars	552,996	Jan. 14	938	227	74	190
Gathright, John R. and J. B., Louisville, Ky., assignors to American Street Car Sprinkler Company, Worcester, Mass. Railway street-sprinkler	570,990	Nov. 10	1024	{ 239 240 }	77	857
Gathright, John R. and J. B., Louisville, Ky., assignors to American Street Car Sprinkler Company, Worcester, Mass. Railway street-sprinkler	570,991	Nov. 10	1026	240	77	858
Gathright, Josiah B. (See Gathright, John R. and J. B.)						
Gatling, Richard J., Hartford, Conn. Combined cotton thinner and cultivator	558,682	Apr. 21	2061	{ 497 498 }	75	421
Gaubert, George J., Richmond, Canada. Machine for forming heels of lamp-chimneys	566,514	Aug. 25	2851	693	76	1205
Ganutt, Forest G., Fort Wayne, Ind. Cleaner for dust-collectors	566,978	Sept. 1	431	101	76	1363
Gaus, Conrad. (See Sommerfeld, August, assignor.)						
Gawler, Alfred B., Washington, D. C. Blotter	561,104	June 2	49	13	75	1376
Gawley, Hector, assignor to M. P. Montgomery, Grand Rapids, Mich. Sawmill-dog	562,461	June 23	2449	594	75	1891
Gawley, Hector, assignor to M. P. Montgomery, Grand Rapids, Mich. Offset for sawmill-carriages	563,476	July 7	409	95	76	79
Gay, Elijah, assignor of one-half to M. Riley, Washington, D. C. Window	557,378	Mar. 31	3381	812	74	1833
Gayley, James, Braddock, and P. D. Mackey, Wilkinsburg, Pa. Casting apparatus	553,458	Jan. 21	1732	{ 413 414 }	74	352
Gaylor, Leonard B. (See Black and Gaylor.)						
Gaylor, Leonard B., Erie, Pa. Crown-forging for bicycles	561,987	June 16	1643	400	75	1725
Gaylor, Arthur N., Auburn, N. Y. Reverberatory melting-furnace	560,406	May 19	1952	446	75	1110
Gayman, George G., Clarksville, Pa. Fence	555,088	Feb. 25	2296	547	74	980
Gaynor, John J., and L. A. Smith; said Smith assignor to said Gaynor, and said Gaynor assignor of one-half to W. E. Fisk, Indianapolis, Ind. Check-ray attachment for corn-planters	568,607	Sept. 29	3313	794	76	1955
Gaynor, William T., Fayetteville, N. Y. Barge for transporting and launching mattresses for jetty-work	572,001	Nov. 24	2791	658	77	1220
Geary, James, assignor of part to J. C. Greenwald and M. E. Geary, Bradford, Pa. Machine for marking envelopes or the like	568,845	Oct. 6	218	52	77	43
Geary, Mary E., et al. (See Geary, James, assignor.)						
Geb, Jacob F., Franklin, Mass. Feeder for carding-engines	554,486	Feb. 11	1225	287	74	748
Geb, Jacob F., assignor of one-third to F. P. Chapman, Franklin, Mass. Automatic alarm for card-feeding machines	555,692	Mar. 3	355	82	74	1193
Gebel, Ernst. (See Rockwell, Gerlach, and Gebel.)						
Gebert, William, Trenton, N. J. Puzzle or game device	572,701	Dec. 8	1081	263	77	1504
Gebhard, Paul, assignor of one-half to E. Leding, New Haven, Conn. Device for branding cigars	557,066	Mar. 24	2817	671	74	1708
Geddes, Charles A., Philadelphia, Pa., assignor to Kirby Manufacturing Company, Camden, N. J. Apparatus for dispensing soda-water	569,633	Oct. 20	1599	378	77	333
Gedney, Meave T., (formerly Meave Thomson.) New York, N. Y. Toy	552,881	Jan. 7	722	176	74	135
Gee, Horace L., Kingston, assignor to Diamond Truck and Car Gear Company, New York, N. Y. Means for supporting housings of car-axle journals in pedestals	574,028	Dec. 29	3500	836	77	2006
Gee, James E. and W. J., Middlesbrough, England. Machine for washing, scrubbing, and cleaning floors	557,377	Mar. 31	3383	{ 812 813 }	74	1834
Gee, William J. (See Gee, James E. and W. J.)						
Geer, Henry J., Providence, R. I. Display-stand for bills of fare	564,785	July 28	2710	643	76	546
Geering, Adolph, New York, N. Y. Ice shaver and scoop	563,763	July 14	895	213	76	183
Geesey, E. O., et al. (See Lee, William, assignor.)						
Gehlman, Samuel H., Springfield, Ill. Ventilator and dust-arrester for railway-cars	567,972	Sept. 22	2150	517	76	1724
Gehrt, Albert A. (See Brown and Gehrt.)						
Geiger, A. E. (See Ford, William H., assignor.)						
Geiger, John J., Clyde, Ohio. Beer-pump cleaner	572,631	Dec. 8	956	231	77	1480
Geigy & Co., John R. (See Ris, Christopher, assignor.)						
Geigy & Co., John R. (See Ris and Simon, assignors.)						
Geigy & Co., John R. (See Sandmeyer, Traugott, assignor.)						
Geipel, William, London, England. Steam-trap	560,491	May 19	2100	480	75	1137
Geise, Henry, Philadelphia, Pa. Strengthening device for chair-legs	566,979	Sept. 1	432	101	76	1363
Geisel, Adam, St. Louis, Mo. Concrete bridge	568,673	Sept. 29	3435	822	76	1978

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Geisel, Adam, St. Louis, Mo. Concrete bridge.....	571,225	Nov. 10	1432	334	77	933
Geisel, Theodor, Springfield, Mass. Wrench.....	554,596	Feb. 11	1408	330	74	783
Geisel, Theodor, Springfield, Mass. Wagon-body.....	556,345	Mar. 17	1568	367	74	1454
Geisenhöner, Henry. (See Thomson and Geisenhöner.)						
Geiser, Daniel S., Waynesborough, Pa. Threshing-cylinder.....	563,661	July 7	709	{ 167 168 }	{ 76 76 }	{ 133 133 }
Geiser Manufacturing Company. (See Anderson, Gustaf A., assignor.)						
Geiser Manufacturing Company. (See Price, Abraham E., assignor.)						
Geisinger, Joseph M., Warsaw, Ind. Well-boring machine.....	565,343	Aug. 4	724	172	76	750
Geisler, Hugo P., Saginaw, Mich. Suspenders.....	571,114	Nov. 10	1259	292	77	900
Geisler, Joseph F., assignor of two-thirds to A. E. Kirby and C. B. Harris, New York, N. Y. Fireproofing and preserving wood, &c.....	560,614	May 19	2303	527	75	1173
Geisman, Fredrick, Canton, Ohio. Commode.....	557,067	Mar. 24	2818	671	74	1708
Geissmer, Friedrich J. T., Mittweida, Germany. Horseshoe.....	572,002	Nov. 24	2794	659	77	1220
Geiszl, Martin, <i>et al.</i> (See Kips, John, assignor.)						
Geldbach, Jacob. (See Palleschitz, John, assignor.)						
Geldowsky, Martha C., Cincinnati, Ohio. Bicycle connecting device.....	557,309	Mar. 31	3263	782	74	1810
Gelina, John, <i>et al.</i> (See Winters, John W., assignor.)						
Gelina, Mary L., <i>et al.</i> (See Winters, John W., assignor.)						
Gemmell, Ross, and F. Buxton, Whaley Bridge, near Stockport, England. Apparatus for washing printers' blankets.....	572,889	Dec. 8	1391	337	77	1564
Genauast, Bernard, Effingham, Ill. Automatic door-opener.....	559,448	May 5	177	39	75	716
General Compressed Air Company. (See Hardie, Robert, assignor.)						
General Compressed Air Company. (See Haupt, Herman, assignor.)						
General Electric Company. (See Andrews, William S., assignor.)						
General Electric Company. (See Armstrong, Albert H., assignor.)						
General Electric Company. (See Bassett, Norman C., assignor.)						
General Electric Company. (See Batchelder, Asa F., assignor.)						
General Electric Company. (See Bathurst, Fred, assignor.)						
General Electric Company. (See Berg, Ernst J., assignor.)						
General Electric Company. (See Blackwell, Francis O., assignor.)						
General Electric Company. (See Bradley, Charles S., assignor.)						
General Electric Company. (See Burke, James, assignor.)						
General Electric Company. (See Cooper, William, assignor.)						
General Electric Company. (See Cox, Frank P., assignor.)						
General Electric Company. (See Dyer, Richard N., assignor.)						
General Electric Company. (See Faure and MacHaffie, assignors.)						
General Electric Company. (See Gibboney, John W., assignor.)						
General Electric Company. (See Gould, Frederick D., assignor.)						
General Electric Company. (See Green, Charles M., assignor.)						
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General Electric Company. (See Hewlett, Edward M., assignor.)						
General Electric Company. (See Hewlett and Potter, assignors.)						
General Electric Company. (See Hobart, Henry M., assignor.)						
General Electric Company. (See Hunter, Rudolph M., assignor.)						
General Electric Company. (See Johnson, Charles H., assignor.)						
General Electric Company. (See Knight, Walter H., assignor.)						
General Electric Company. (See Lieb, Charles A., assignor.)						
General Electric Company. (See Macdonald, Alexander F., assignor.)						
General Electric Company. (See Martin, Charles B., assignor.)						
General Electric Company. (See Martin and Hewlett, assignors.)						
General Electric Company. (See Moody, Walter S., assignor.)						
General Electric Company. (See Parshall, Horace F., assignor.)						
General Electric Company. (See Potter, William B., assignor.)						
General Electric Company. (See Potter and Case, assignors.)						
General Electric Company. (See Priest, Edward D., assignor.)						
General Electric Company. (See Raymond, Edward B., assignor.)						
General Electric Company. (See Reist, Henry G., assignor.)						
General Electric Company. (See Rice, Edwin W., Jr., assignor.)						
General Electric Company. (See Seymour, Henry A., assignor.)						
General Electric Company. (See Sperry, Elmer A., assignor.)						
General Electric Company. (See Steinmetz, Charles P., assignor.)						
General Electric Company. (See Steinmetz, Charles P., assignor.) (Reissue.)						
General Electric Company. (See Steinmetz and Berg, assignors.)						
General Electric Company. (See Thomson, Elihu, assignor.)						
General Electric Company. (See Thomson and Armstrong, assignors.)						
General Electric Company. (See Thomson and Geisenhöner, assignors.)						
General Electric Company. (See Thomson and Goranson, assignors.)						
General Electric Company. (See Tournier, Julius C., assignor.)						
General Electric Company. (See Webber, James A., assignor.)						
General Electric Company. (See Wirt, Herbert C., assignor.)						
General Incandescent Arc Light Company. (See Bergmann, Sigmund, assignor.)						
General Incandescent Arc Light Company. (See Herrick, Albert B., assignor.)						
General Incandescent Arc Light Company. (See Lavens, Erwin, assignor.)						
General Incandescent Arc Light Company. (See Swoboda and Lavens, assignors.)						
Genereux, Francois H. (See Jocas, Louis, assignor.)						
Genese Compressor and Moulding Machine Company of Baltimore City. (See Genese, David, assignor.)						
Genese, David, Baltimore, Md., assignor to Genese Compressor and Moulding Machine Company of Baltimore City, of Maryland. Suppository and making same.....	553,907	Feb. 4	187	39	74	540
Genese, David, Baltimore, Md., assignor to Genese Compressor and Moulding Machine Company of Baltimore City, of Maryland. Suppository-machine.....	554,178	Feb. 4	693	156	74	632
Genett, Louis J., Marquette, Mich. Car-seal.....	558,554	Apr. 21	1829	445	75	320
Genett, Louis J., Chicago, Ill., assignor, by mesne assignments, to G. B. Frei, Marquette, Mich. Air-brake mechanism.....	556,815	Mar. 24	2393	562	74	1626
Genett, Louis J., Chicago, Ill., assignor to G. B. Frei, Marquette, Mich. Fluid-pressure brake mechanism for railway-cars.....	563,158	June 30	3701	886	75	2150
Gennerich, Henry W. (See McDowell, Charles E., assignor.)						
Gennert, Firm of Gottlieb. (See Fleming and Gennert, assignors.)						
Gennert, Gottlieb. (See Kaiser, Alexander O., assignor.)						
Gennert, Gustave C. W. (See Fleming and Gennert.)						
Gentry, James C., Monroe City, Mo. Nut-lock.....	561,259	June 2	308	78	75	1428
Gentzsch, Adolf, Vienna, Austria-Hungary. Composition for electric insulation and making same.....	559,376	May 5	45		75	689

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Geoffroy, Arthur R., New York, N. Y. Name-plate for bicycles, &c	573,870	Dec. 29	3211	764	77	1954
Geometric Drill Company. (See Smith, William J., assignor.)						
George, Carl R., assignor of one-half to W. H. Siehr, Milwaukee, Wis. Box-cover brace or support	569,193	Oct. 13	818	191	77	171
George, Charles F., Delaney's, Del. Finger-guard for harvesters	568,135	Sept. 22	2475	594	76	1783
George, Henry H., assignor to J. G. Buehler, Brooklyn, N. Y., and J. H. Shelley, Jersey City, N. J. Bearing for shafts and axles	552,902	Jan. 14	777	189	74	159
George, Isaac A. (See Nolan and George.)						
George, James H., New York, N. Y. Electrolytic bath and appliance	553,732	Jan. 28	2229	528	74	460
George, James H., New York, N. Y. System for electroplating vessels	565,975	Aug. 18	1900	461 462	76	1010
George, Japhus, Ithaca, N. Y. Glass-annealing furnace	569,279	Oct. 13	965	231	77	200
George, Jerome R. (See Miller and George.)						
George, John S., Mayesville, S. C. Whiffletree	562,129	June 16	1892	459	75	1770
George, Josias J., Baltimore, Md. Machine for trussing or driving hoops of kegs or barrels	565,736	Aug. 11	1449	353	76	905
George L. Squier Manufacturing Company. (See Calvert, Charles A., assignor.)						
George L. Thompson Manufacturing Company. (See Kuechel, William L. T., assignor.)						
George, Newton H., Rosendale, Mo. Buckle	555,000	Feb. 18	2122	504	74	933
George P. Steel Iron Company. (See Steel, Canby, assignor.)						
George, Vesper L., and C. L. Woodside, Malden, Mass., assignors of one-third to C. W. Hills, Manchester, N. H. Exposure-meter	554,865	Feb. 18	1882	443	74	890
George, William B., Columbus, Ohio. Dish-drainer	563,369	July 7	231	52	76	47
George, William B., Columbus, Ohio. Car-fender	574,029	Dec. 29	3501	836 837	77	2006
Georgii, Emil, Stuttgart, Germany. Cigarette-machine	555,369	Feb. 25	2790	653 654	74	1074
Georges, Ernest A. (called Charles Street,) Paris, France, assignor to Electro-Metallurgical Company, Limited, London, England. Making alloys	572,092	Nov. 24	2997		77	1257
Geppert, William. (See Wankel, Frank, assignor.)						
Geraerds, Hubertus and W., New York, N. Y. Fireproof ceiling or wall	555,693	Mar. 3	356	83	74	1193
Geraerds, Hubertus and W., New York, N. Y. Fireproof floor	562,221	June 16	2041	494	75	1799
Geraerds, Willem. (See Geraerds, Hubertus and W.)						
Geraghty, John P., Jersey City, N. J. Car-fender	557,262	Mar. 31	3178	762 763	74	1794
Gerard, William L., Burlington, Kans. Stovepipe-cleaner	564,988	Aug. 4	48	11	76	626
Geraty, George C., Chicago, Ill. Washbowl	564,372	July 21	1994	468	76	398
Gerber, George H. (See Mengel, Binkley, and Gerber.)						
Gerber, James J. (See Konst, Louis, assignor.)						
Gerding, Louis F. (See Whisman and Gerding.)						
Gere, George H., Grand Rapids, Mich. Screw-propeller	559,890	May 12	999	222	75	884
Gerhart, William R., assignor of one-half to C. A. Inglis, Lancaster, Pa. Rail-fastener	567,311	Sept. 8	1027	246	76	1485
Gerl, Joseph W., Hewitt, Wis. Baby-walker	554,179	Feb. 4	695	156	74	632
Gerlach, Charles F. (See Rockwell, Gerlach, and Gebel.)						
Gerlemann, John A., Sioux City, Iowa. Fan attachment for rocking-chairs	554,597	Feb. 11	1409	330	74	783
Germann, Emil. (See Buckingham and Germann.)						
Germann, Emil. (See Buckingham, Gardam, and Germann.)						
Germann, Emil. (See Buckingham, Germann, and Gardam.)						
Germann, John G., and F. B. Downing, Erie, Pa.; said Germann assignor to said Downing. Dynamo-electric machine and electric motor	562,179	June 16	1979	479	75	1787
Germanson, Gilbert F., et al. (See Hoehe, Ferdinand F., assignor.)						
Germand, Gustavus A., Baltimore, Md. Curtain or portiere hanger	562,601	June 23	2697	632	75	1937
Gerondale, John J. (See Gravel, Octave, assignor.)						
Gerow, Anna C., Port Huron, Mich. Dust-pan	573,460	Dec. 22	2472	586	77	1800
Gerow, George H., Port Huron, assignor, by mesne assignments, to W. J. Hopkins, St. Clair, Mich. Dust-pan	561,219	June 2	248	59	75	1416
Gerry, James H., and F. M. Schmidt, Brooklyn, assignors to Self Winding Clock Company, New York, N. Y. Electric chime	561,881	June 9	1461	352 353	75	1671
Gersant, Jules, Deal, and A. G. Buttifant, London, England. Machine for hermetically sealing metal boxes	567,384	Sept. 8	1166	279	76	1508
Gerstlauer, David. (See Minich, Daniel, assignor.)						
Gerstmann, Karl, Freiberg, Germany. Apparatus for opening doors	564,880	July 28	2860	685	76	574
Gerstner, August, Brooklyn, N. Y. Wheel-tire	558,644	Apr. 21	1955	481	75	407
Gerwing, Robert. (See White, Charles F., assignor.)						
Gery, Aldis J., Dolgeville, and R. Dolge, New York, assignors to C. F. Zimmermann Company, Dolgeville, N. Y. Plectrum for musical instruments	558,797	Apr. 21	2255	545	75	457
Gesbeck, Charles H. (See Angsten and Gesbeck.)						
Gessler, Jacob, Indianapolis, Ind. Railway-switch-operating mechanism	574,319	Dec. 29	4058	964	77	2108
Gessner, David, Worcester, Mass. Cloth-napping machine	561,220	June 2	249	60	75	1416
Gessner, David, Worcester, Mass. Cloth-pressing machine	565,071	Aug. 4	183	44 45 46	76	651
Gessner, David, Worcester, Mass. Cloth-pressing machine	565,072	Aug. 4	190	47, 48	75	653
Gessner, Ernst, Aue, Germany. Teazeling-machine	558,798	Apr. 21	2257	545	75	457
Gestner, Frank A. (See Straub and Gestner.)						
Getchell, M. P. (See Alvord, Clarence E., assignor.)						
Getman, R. B. (See Kneeder, Solomon A., assignor.)						
Getsinger, John B. (See Reeves, Albert S., assignor.)						
Getty, James C., Indiana, Pa. Cylinder-valve for steam-engines	554,364	Feb. 11	1009	234	74	707
Geuder & Paeschke Manufacturing Company. (See Leland, Herbert S., assignor.)						
Geuder, William, Milwaukee, Wis. Adjustable shelving	566,305	Aug. 25	2436	597	76	1128
Geyer, Alexius W. (See Essberger and Geyer.)						
Geyer, Frank P., Philadelphia, Pa. Shutter or door fastener	556,141	Mar. 10	1167	274	74	1365
Geyer, George H., assignor to Jones & Laughlins, Limited, Pittsburg, Pa. Apparatus for treating rods or bars	571,306	Nov. 10	1574	374	77	961
Gharky, William D., Philadelphia, Pa. System of distributing electrical power, &c	569,634	Oct. 20	1601	378 379	77	333
Ghaster, S. L., et al. (See Dale, Will W., assignor.)						
Ghering, Leslie E., Genoa, N. Y. Hay-carrier	561,105	June 2	50	13	75	1376
Giacinto, Ferraud, New York, N. Y. Bicycle-stand	569,493	Oct. 13	1327	312	77	266
Giacinto, Ferraud, assignor of one-half to C. Barsotti, New York, N. Y. Bicycle-support	555,285	Feb. 25	2647	620	74	1047
Gibboney, John W., Lynn, Mass. Electric lighting by wind-power	569,754	Oct. 20	1837	436	77	375
Gibboney, John W., Lynn, Mass., assignor to General Electric Company, of New York. Electric metering system	558,585	Apr. 21	1888	457	75	389
Gibbons, Daniel, assignor of one-half to J. Forsyth, West Troy, N. Y. Nut-lock	558,799	Apr. 21	2259	545	75	457

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Gibbons, John, assignor of two-thirds to F. B. Durant and L. Eggers, Jr., West Troy, N. Y. Car guard or fender	552,639	Jan. 7	230	63, 64	74	45
Gibbs, Edward D., <i>et al.</i> (See Pearson, Thomas T., assignor.)						
Gibbs, George, Milwaukee, Wis. Safety apparatus for railway-crossings	569,709	Oct. 20	1758	418	77	360
Gibbs, George, Milwaukee, Wis. Safety apparatus for railway-crossings	570,089	Oct. 27	2415	572	77	496
Gibbs, George, Milwaukee, Wis. Derailing device for railways	570,596	Nov. 3	302	74	77	694
Gibbs, Hiram H. (See Lewty, Thomas, assignor.)						
Gibbs, Jacob S., Hartford, Conn. Snap-switch	557,198	Mar. 31	3069	736	74	1774
Gibbs, James E., Bridgewater, Va. Churn-dasher	568,086	Sept. 22	2389	576	76	1767
Gibbs, John E., and M. S. Nelson, New Bedford, Mass. Fire-lighter	568,674	Sept. 29	3436	822	76	1978
Gibbs, John W., New York, N. Y. Electric roller for therapeutical and massage purposes	572,341	Dec. 1	446	105	77	1364
Gibbs, Lewis, Canton, Ohio. Rake and apparatus for making same	567,129	Sept. 8	706	165	76	1427
Gibbs, Lucius T., Milwaukee, Wis. Controlling mechanism for electric motors	555,503	Mar. 3	32	8	74	1136
Gibbs, Ruth E., New York, N. Y. Safety-razor	560,493	May 19	2103	481	75	1138
Gibbs, Walter A., Pawtucket, R. I. Alarm device for electric motors	568,608	Sept. 29	3315	795	76	1955
Gibbs, William E., New York, N. Y., assignor to Redway Manufacturing Company, of New Jersey. Valve for pneumatic tires	560,492	May 19	2102	480	75	1137
Gibeault, Arthur, St. Isidore Junction, assignor to J. H. Wilson, Montreal, Canada. Hay-press	561,862	June 9	1463	354	75	1671
Gibney, John. (See Moore and Weller, assignors.)						
Gibon, Theodor, Clarksville, Tenn. Apparatus for packing leaf-tobacco	567,896	Sept. 15	2011	483	76	1686
Gibson, C. J., <i>et al.</i> (See Kennedy, Richard G., assignor.)						
Gibson, Charles R., Woodsville, N. H. Sand-band	569,869	Oct. 20	2021	482	77	408
Gibson, Chauncey W., Detroit, Mich. Apparatus for charging liquids with gas	561,389	June 2	575	144	75	1481
Gibson, Edward. (See Scott, Walter E., assignor.)						
Gibson, Edward L., Brooklyn, N. Y. Pocket-register	563,854	July 14	1071	253	76	215
Gibson, Edward T., Minneapolis, Minn. Paper toy	560,094	May 12	1383	{ 311 312 }	{ 75 75 }	{ 957 957 }
Gibson, Edward T., Minneapolis, Minn. Toy	565,450	Aug. 11	901	215	76	803
Gibson, Frank S., <i>et al.</i> (See Preusser, Richard F., assignor.)						
Gibson, John, and J. Watson, Toledo, Ohio. Car-fender	569,822	Oct. 20	1947	463	77	395
Gibson, John H., Lawrence, Tenn. Manufacture of brooms	568,136	Sept. 22	2476	594	76	1783
Gibson, Lewis W., Detroit, Mich. Bone-cutting machine	567,854	Sept. 15	1953	468	76	1674
Gibson, Lizzie, and A. Crank, Dallas, Tex. Mirror attachment for dressers	557,575	Apr. 7	86	21	75	18
Gibson, Robert A., Buffalo, N. Y. Machine for turning bicycle mud-guards, rims, &c.	554,925	Feb. 18	1923	469	74	909
Gibson, Robert W., New York, N. Y. Fender for street-cars	555,316	Feb. 25	2700	{ 632 633 }	{ 74 74 }	{ 1058 1058 }
Giddings, Albert J., <i>et al.</i> (See Middaugh, Elmer H., assignor.)						
Giddings, Joseph D., Cambridge, and H. C. Swain, Boston, Mass. Rotary cutter for cutting or trimming edges of hat-rims, &c.	558,487	Apr. 21	1732	419	75	361
Giddings, Lois A., <i>et al.</i> (See Billings, George W., assignor.)						
Gier, James J., Detroit, Mich. Extension and retraction device	569,494	Oct. 13	1329	312	77	267
Gierding, Charles E. (See Boyd and Gierding.)						
Gieschen, Louis E., Oakland, Cal. Fishing basket or creel	566,903	Sept. 1	285	66	76	1337
Giesler, Arthur, assignor to Stilwell-Bierce and Smith-Vaile Company, Dayton, Ohio. Gas-compressor	556,713	Mar. 17	2194	{ 512 513 }	{ 74 74 }	{ 1572 1572 }
Giesler, Arthur, assignor to Stilwell-Bierce & Smith-Vaile Company, Dayton, Ohio. Electric water-wheel governor	574,320	Dec. 29	4061	{ 965 966 }	{ 77 77 }	{ 2109 2109 }
Giesy, Edward H., assignor to A. M. Stearns, Wyoming, and H. H. Giesy, Lancaster, Ohio. Refrigerator	570,426	Oct. 27	3059	725	77	616
Giesy, Henry H., <i>et al.</i> (See Giesy, Edward H., assignor.)						
Giffin, Columbus J. and D. A., assignors of one-third to S. B. Giffin, Knoxville, Tenn. Sub-soil attachment for plows	556,463	Mar. 17	1796	417	74	1498
Giffin, David A. (See Giffin, Columbus J. and D. A.)						
Giffin, Samuel B. (See Giffin, Columbus J. and D. A., assignors.)						
Gifford, Alenza T., Fitchburg, Mass. Hydrocarbon-burner and connection therefor	562,819	June 30	3083	747	75	2027
Gifford, Charles, <i>et al.</i> (See Burnham, Arthur M., assignor.)						
Gignilliat, William L. (See Harrison, John S., assignor.)						
Gikeleiter, Charles L. (See Haerer and Gikeleiter.)						
Gilbert & Barker Manufacturing Company. (See Griffen, Arthur B., assignor.)						
Gilbert & Bennett Manufacturing Company. (See Burton and Eberhardt, assignors.)						
Gilbert, Edwin G., and S., Derby, England. Candle-holder	558,800	Apr. 21	2260	546	75	457
Gilbert, Frank S. (See Dickerson and Gilbert.)						
Gilbert, Fred S. (See Herring, Henry M., assignor.)						
Gilbert, George. (See Gilbert, Edwin G., and S.)						
Gilbert, Henry T. J., assignor of one-fourth to C. W. Bouck, Royalton, Minn. Mail-bag fastener	557,663	Apr. 7	259	62	75	49
Gilbert, Henry J., Saginaw, Mich. Washboard	557,199	Mar. 31	3071	736	74	1774
Gilbert, James. (See Sargentson and Gilbert.)						
Gilbert, James, Omaha, Nebr. Thrust-bearing	564,609	July 28	2406	568	76	491
Gilbert, John W., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Electrically-actuated dental plugger	560,315	May 19	1791	408	75	1081
Gilbert, Joseph. (See Wheeler and Gilbert.)						
Gilbert, Mary A., Northampton, Mass. Drip-conduit	557,576	Apr. 7	87	22	75	18
Gilbert, Samuel. (See Gilbert, Edwin G., and S.)						
Gilbert, Thomas S., New Haven, Conn. Corset	557,379	Mar. 31	3387	814	74	1834
Gilbert, Virgil W., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Speculum	557,664	Apr. 7	261	62	75	49
Gilbert, William E., <i>et al.</i> (See Nicholes, Herbert W., assignor.)						
Gilbert, William H., Oakland, Cal. Key-opening can	565,162	Aug. 4	396	92	76	690
Gilbert, William T., Brooklyn, N. Y. Car-seal	573,145	Dec. 15	1866	449	77	1672
Gilbreath, Emmett. (See Weaver, John R., assignor.)						
Gilbreth, Frank B., Brookline, Mass. Scaffold	554,024	Feb. 4	407	90	74	580
Glicher, Otto. (See Wesemann, Henry G., assignor.)						
Gilchrist, Harry E., Danville, Ill. Tobacco-pipe and cigar or cigarette holder	564,482	July 21	2177	510	76	432
Gilchrist, John E., South Bend, Wash. Logging-jack	556,625	Mar. 17	2067	484	74	1548
Gilchrist, Joseph C. (See Ramage, Alexander S., assignor.)						
Gildemeyer, Charles A., assignor of one-half to H. D. Moore, Haddonfield, N. J. Machine for placing covers on boxes or cans	563,160	June 30	3706	{ 886 887 }	{ 75 75 }	{ 2151 2151 }
Gildersleeve, Frank D., Maplewood, and F. H. Rogers, Kirkwood, Mo. Folding pocket game apparatus	565,737	Aug. 11	1450	353	76	905
Giles, Harvey, Bound Brook, N. J. Puzzle	569,194	Oct. 13	819	192	77	172
Gillfillan, Essington N., assignor to Gillfillan Scale and Hardware Company, Chicago, Ill. Spring-balance weighing-scale	561,309	June 2	432	107	75	1453

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
Gilfillan Scale and Hardware Company. (See Gilfillan, Essington N., assignor.)						
Gilford, George, Allegheny, Pa. Boiler.....	564,308	July 21	1882	{ 442 443 }	76	378
Gilgen, John. (See Jaberg, Frank A., assignor.)						
Gilberti, Fra P., Wood Haven, N. Y. Flushing apparatus.....	563,161	June 30	3709	887	75	2152
Gill-Alexander Electric Manufacturing Company. (See Alexander, William W., assignor.)						
Gill, Edwin R., Independence, Mo. Water-sprinkler.....	564,610	July 28	2408	568	76	491
Gill, George C., Holyoke, Mass. Paper-machine.....	556,181	Mar. 10	1244	291	74	1379
Gill, George E. (See Thuston and Gill.)						
Gill, John. (See Hughes and Gill.)						
Gill, Leonard U. (See Bradley, Alfred, assignor.)						
Gill, Martin G., Baltimore, Md. Bag-fastening machine.....	557,378	Mar. 31	3385	813	74	1834
Gill, Richard M., Ruston, La. Machinery for handling cotton.....	570,471	Nov. 3	55	13	77	648
Gillam, Manly M., New York, N. Y. Actuating mechanism for advertising devices.....	554,926	Feb. 18	1926	470	74	909
Gillespie, Alexander P., Pittsburg, Pa. Pencil-holder.....	572,632	Dec. 8	958	231	77	1480
Gillespie, James B., East Liverpool, Ohio. Horseshoe.....	557,665	Apr. 7	261	63	75	49
Gillespie, John, assignor to G. M. Porter, Boston, Mass. Bicycle.....	573,779	Dec. 22	3032	718	77	1907
Gillespie, Richard S., New York, N. Y. Construction of supports for building-walls.....	570,792	Nov. 3	676	{ 155 156 }	77	763
Gillespie, Richard S., New York, N. Y. Air-lock for caissons, &c.....	570,793	Nov. 3	679	156	77	764
Gillespie, Richard S., New York, N. Y. Air-lock for caissons, &c.....	570,794	Nov. 3	681	156	77	764
Gillespie, Richard S., New York, N. Y. Means for sinking wall or other supporting columns.....	573,404	Dec. 15	2322	555	77	1755
Gillespie, Richard S., New York, N. Y. Air-lock for caissons, &c.....	573,405	Dec. 15	2325	{ 555 556 }	77	1755
Gillespie, Richard S., New York, N. Y. Air-lock for caissons, &c.....	573,406	Dec. 15	2327	556	77	1756
Gillespie, William R. (See Mitchell and Gillespie.)	574,321	Dec. 29	4064	966	77	2109
Gillett, Leonard C. and U. G., Brownsdale, Minn. Mechanical movement.....	553,521	Jan. 28	1969	467	74	413
Gillett, Ulysses G. (See Gillett, Leonard C. and U. G.)						
Gillette, George H. (See Gaines, Charles A., assignor.)						
Gillette, Harleigh, Highland Park, assignor, by mesne assignments, to A. J. Rodgers, Chicago, Ill. Temperature-regulator.....	558,453	Apr. 14	1665	401	75	332
Gillette, William R., New Haven, Mich. Credit-coupon system.....	572,978	Dec. 15	1572	377	77	1615
Gillham, Manceilla C. (See Alexander and Gillham.)						
Gillham, Robert J., Orlando, Fla. Lamp-stove.....	559,277	Apr. 28	3149	761	75	642
Gilliam Manufacturing Company. (See Seaman, Benjamin S., assignor.)						
Gilliam Manufacturing Company. (See Shank, Orey D., assignor.)						
Gilliland, John E., and F. A. Nevill, Meredosia, Ill.; said Gilliland assignor to said Nevill. Trace-carrier.....	555,900	Mar. 3	706	170	74	1261
Gilliland, Lee O., assignor of five-ninths to C. A. David and W. S. Sharpneck, Chicago, Ill. Roller-bearing for shafting.....	568,898	Oct. 6	310	71	77	60
Gilliland, Samuel B., and W. R. P. Jackson, Monroe City, Mo. Hay-loader.....	565,738	Aug. 11	1451	354	76	906
Gillingham, Aubrey H. (See Timpson and Rankin, assignors.)						
Gilman, Albert H., Saco, Me. Railway-track sander.....	568,530	Sept. 29	3168	762	76	1927
Gilman, Charles C., Eldora, Iowa. Means for preventing dampness in cellars, &c.....	559,941	May 12	1090	242	75	900
Gilman, Charles C., Eldora, Iowa. Manufacture of artificial stone.....	566,751	Sept. 1	32	8	76	1286
Gilman, Charles C. and G. E., Eldora, Iowa. Fireproofing building materials.....	560,580	May 19	2246	.....	75	1163
Gilman, Charles H., Melrose, Mass. Snow-guard.....	557,797	Apr. 7	492	118	75	94
Gilman, George E. (See Gilman, Charles C. and G. E.)						
Gilman, James S., Tecumseh, Mich. Hame-tug fastener.....	563,159	June 30	3705	886	75	2151
Gilman, Willard H., Boston, Mass., assignor, by mesne assignments, to American Automatic Banjo Company, New York, N. Y. Electrically-operated stringed musical instrument.....	565,739	Aug. 11	1453	{ 354 355 }	76	906
Gilmer, Abraham L. and B. F. Quincy, Ill. Artificial teeth.....	553,523	Jan. 28	1867	442	74	394
Gilmer, Benjamin F. (See Gilmer, Abraham L. and B. F.)						
Gilmore, Annella S., Elk Point, S. D. Hair-curler.....	564,611	July 28	2409	568	76	492
Gilmore, Benton, Deerfield, assignor to L. D. Patterson, Tidouite, F. A. Wood and M. W. Bovee, Grand Valley, Pa. Device for separating gas and water from oil.....	554,593	Feb. 11	1410	330	74	784
Gilmore, Evangeline, Hamilton, Canada. Grater.....	571,358	Nov. 17	1659	393	77	991
Gilmore, Frank E. (See McMahel, John, assignor.)						
Gilmore, Howard, Easton, Mass. Connecting device for electric conductors.....	565,344	Aug. 4	725	173	76	751
Gilmore, James L., Sharpsburg, Iowa. Hog-pen.....	566,163	Aug. 18	2207	537	76	1068
Gilmore, James M., New York, N. Y. Nut-lock.....	569,098	Oct. 6	656	152	77	125
Gilmore, Robert J. (See Dunlap, Charles A., assignor.)						
Gilmore, Robert J., and C. A. Dunlap, Providence, R. I. Fountain.....	557,263	Mar. 31	3180	763	74	1794
Gilmore, William M., St. Louis, Mo. Connection for earthenware.....	566,074	Aug. 18	2053	500	76	1040
Gilmour, Winfield S., Sorgho, Ky. Pipe-wrench.....	566,678	Aug. 25	3089	754	76	1252
Gilmour, Alfred E. C., Brooklyn, N. Y. Soap-holding attachment.....	553,751	Jan. 28	2259	535	74	466
Gilmour, Thomas B., Dayton, Wash. Draft device for air-tight heating-stoves.....	568,609	Sept. 29	3316	795	76	1955
Gilpatrick, Edgar M., Machias, Me. Corn-popper.....	556,922	Mar. 24	2570	605	74	1659
Gilpin, Albert D., assignor of one-half to L. J. Dunton and T. B. Cline, Lincoln, Kans. Egg-crate.....	559,776	May 5	733	175	75	820
Gilpin, Eli J., Fowler, Ind. Removable handle for saucepans.....	569,635	Oct. 20	1609	379	77	335
Gilpin, Eli J., and O. Helmick, Fowler, Ind. Safety-cushion for elevators.....	568,345	Sept. 29	2853	682	76	1866
Gilroy, James C., Clinton, Canada. Corset-clasp protector.....	553,611	Jan. 28	2020	478	74	422
Gilroy, Thomas F., assignor to H. S. Jones, Brooklyn, N. Y. Automatic feeding-up device for glass-polishing wheels.....	559,699	May 5	587	{ 138 139 }	75	794
Gilson, John. (See Boenning and Gilson.)						
Gilson, John, assignor to Gilson Manufacturing Company, Port Washington, Wis. Chair.....	555,694	Mar. 3	357	83	74	1193
Gilson, John, assignor to Gilson Manufacturing Company, Port Washington, Wis. Chair.....	560,615	May 19	2305	528	75	1174
Gilson, John, and H. W. Bolens, assignors to Gilson Manufacturing Company, Port Washington, Wis. Chair.....	562,387	June 23	2323	565	75	1867
Gilson Manufacturing Company. (See Gilson, John, assignor.)						
Gilson Manufacturing Company. (See Gilson and Bolens, assignors.)						
Giltz, Goodlow P., et al. (See Clifton, Thomas, assignor.)						
Gilyard, Edmund, and C. Ward, Bradford, England. Cop and tube spinning machinery.....	555,504	Mar. 3	35	8	74	1137
Gimbel, John, New York, N. Y. Pneumatic bed-bottom.....	558,605	Apr. 21	1924	468	75	396
Gimbel, Simon K., Vincennes, Ind. Electric guest-call.....	558,555	Apr. 21	1830	445	75	380
Ginnich, Joseph H., Red Wing, Minn. Combined counter and show-case.....	570,795	Nov. 3	682	156	77	764
Gingrich, Isaiah H., Cadillac, Mich. Lawn-sprinkler.....	573,083	Dec. 15	1758	422	77	1652
Gintz, Benjamin V., Akron, Ohio. Hot-air deflector.....	557,068	Mar. 24	2819	671	74	1708
Gintz, Benjamin V., Akron, Ohio. Pneumatic tire.....	564,190	July 21	1693	396	76	344
Gintz, Henry, Millersburg, Ohio. Thread-cutting attachment for spools.....	566,859	Sept. 1	209	48, 49	76	1322

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Gipe, Emanuel C., and C. F. Hildreth, assignors to Standard Store Service Company, Freeport, Ill. Cash-carrier	559,700	May 5	588	{ 139 140 }	{ 75 75 }	794
Girard, Adam C., and E. A. G. Street, Paris, France. Electric furnace	556,626	Mar. 17	2069	424	74	1548
Girard, Adam C., and E. A. G. Street, Paris, France. Electric furnace	571,655	Nov. 17	2158	519	77	1031
Girard, Alexandre F., Waco, Tex. Paper box	567,897	Sept. 15	2011	483	76	1686
Girard, Louis. (See Wissel, Girard, and Brunier.)						
Giraud, Paul, Dallas, Tex. Trunk	560,062	May 12	1317	295	75	944
Girardet, Pierre L., assignor to R. A. Poitrimol, Paris, France. Lamp	572,505	Dec. 1	729	173	77	1416
Girdler, William H. (See Phipps, Edward L., assignor.)						
Girling, Wilkinson T. (See McClellan and Girling.)						
Girmscheid, John A., <i>et al.</i> (See Dersch, Anthony S., assignor.)						
Girmscheid, John T., <i>et al.</i> (See Dersch, Anthony S., assignor.)						
Girod, Francois E., Geneva, Switzerland. Electric clock striking mechanism	569,099	Oct. 6	657	152	77	125
Girouard, Alderic F., Leominster, Mass. Curtain-fixture	567,466	Sept. 8	1295	314	76	1533
Girouard, Edouard P. C., London, England. Machine for making and refilling trenches for pipes, conduits, &c.	558,683	Apr. 21	2063	{ 498 499 }	{ 75 75 }	421
Giroud, Peter G., Newark, N. J. Hand-stamp	559,377	May 5	46	10	75	689
Girtler, John F., assignor to J. F. Girtler, G. E. Constantin, A. Glaus, and F. Heinemann, Brooklyn, N. Y. Car-fender	554,119	Feb. 4	591	133	74	612
Girvin, William J. (See Manes, James, assignor.)						
Githens, George M., Brooklyn, N. Y. Drilling stone	553,307	Jan. 21	1496	359	74	308
Githens, Joseph C., Rutherford, N. J. Air-compressor	563,477	July 7	410	96	76	79
Given, John L., Stony Point, N. Y. Telephone mechanism	568,346	Sept. 29	2833	682	76	1866
Gladman, George J., Syracuse, N. Y. Pessary	555,695	Mar. 3	359	83	74	1194
Gladstone Washboard Company. (See Merriam and Sears, assignors.)						
Gladwin, Albert L., assignor to Astor Manufacturing Company, Boston, Mass. Burner for liquid fuel	570,629	Nov. 3	392	93	77	710
Gladwin, Fred A., Rochester, N. Y. Brake for bicycles	571,561	Nov. 17	2008	478	77	1053
Glammier, E., <i>et al.</i> (See Wertz, Frank E., assignor.)						
Glammier, Ernest, <i>et al.</i> (See Ballenger, Benjamin, assignor.)						
Glanz, Henry, Louisville, Ky. Pressure-regulator	566,164	Aug. 18	2207	538	76	1068
Glanzer, William, assignor of one-half to J. D. Heater, Dayton, Ohio. Fruit-can	565,679	Aug. 11	1347	327	76	887
Glasgow, Arthur G., <i>et al.</i> (See Woods, George E., assignor.)						
Glass, George A., assignor of two-thirds to P. J. Bickle and D. G. Smith, Freeburg, Pa. Air-brake mechanism for street-cars	569,915	Oct. 20	2098	{ 499 500 }	{ 77 77 }	423
Glass, Henry, London, England. Iron structure	553,028	Jan. 14	982	{ 237 238 }	{ 74 74 }	198
Glass, J. W. (See Kennedy, Robert T. and S. W., assignors.)						
Glass, Perley R. (See Whittemore and Glass.)						
Glasser, Charles T. (See Turner and Glasser.)						
Glazier, Henry J. (See Turner and Glazier, assignors.)						
Glauber, Isaac N., Cleveland, Ohio. Waste-cock	564,014	July 14	1364	318	76	269
Glauber, Joseph H., Cleveland, Ohio. Flexible joint or coupling	567,231	Sept. 8	865	206	76	1456
Glaus, Adolf, <i>et al.</i> (See Girtler, John F., assignor.)						
Glazier, Frank P. (See Welch, Allie R., assignor.)						
Glazier, Peter F. (See Holland and Glazier.)						
Gleason, Eugene, Onalaska, Wis. Photographic camera	565,204	Aug. 4	471	112	76	704
Gleason, Thomas J., New York, N. Y. Skein-silk holder	568,439	Sept. 29	2984	717	76	1894
Gleason, William J., and J. H. Bower, Philadelphia, Pa. Apparatus for dyeing skeins	569,453	Oct. 13	1260	{ 296 297 }	{ 77 77 }	254
Gleckner, William W., Canton, Pa. Thill-tug	560,206	May 19	1583	358	75	1046
Gledhill, Manassah, assignor to Sir Joseph Whitworth & Company, Limited, Manchester, England. Breech mechanism for ordnance	565,163	Aug. 4	397	{ 93 94 95 }	{ 76 76 }	691
Gledhill, Manassah, assignor to Sir Joseph Whitworth & Company, Limited, Manchester, England. Breech mechanism for ordnance	565,164	Aug. 4	401	96, 97	76	691
Gledhill, Manassah, assignor to Sir Joseph Whitworth & Company, Limited, Openshaw, England. Ordnance	566,679	Aug. 25	3090	{ 754 755 360 }	{ 76 76 }	1252
Gledhill, Walter, St. Petersburg, Russia. Machine for twisting fringes	567,590	Sept. 15	1505	{ 361 362 }	{ 76 76 }	1587
Gleim, Charles H., Portland, Oreg. Hand-protector	573,215	Dec. 15	1986	478	77	1695
Glen Cove Machine Company. (See Vivarfas, William O., assignor.)						
Glendining, Robert. (See Beaumont and Faulds, assignors.)						
Glenn, Thomas M., <i>et al.</i> (See Dodd, George R., assignor.)						
Glentworth, Charles E., Sharon Hill, assignor to G. M. Walter, Philadelphia, Pa. Medicine-dose indicator	571,436	Nov. 17	1790	427	77	1014
Glidden, Charles W., Lynn, assignor to J. W. Brooks, trustee, Cambridge, Mass. Heel-trimming machine	555,240	Feb. 25	2554	601	74	1030
Glidden, Charles W., Lynn, and A. D. Elliott, Lawrence, assignors to J. W. Brooks, trustee, Petersham, Mass. Heel-nailing machine	555,241	Feb. 25	2557	601	74	1030
Glidden, Charles W., deceased; J. E. Glidden, Lawrence, administrator, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Heel-nailing machine	571,087	Nov. 10	1201	282	77	890
Glidden, John E., administrator. (See Glidden, Charles W.)						
Glines, Arthur A. (See Booth, George R., assignor.)						
Glines, Frederick A., Arlington, Mass. Mucilage-bottle	563,954	July 14	1266	296	76	250
Glines, William H., Providence, R. I. Detachable cuff-button	559,077	Apr. 28	2738	666	75	565
Globe Buttonhole Machine Company. (See Dahl, Charles A., assignor.)						
Globe Company. (See Carnahan, Charles M., assignor.)						
Globe Electric Heating Company. (See Fraley, George B., assignor.)						
Globe Manufacturing Company. (See Trussell, Emory A., assignor.)						
Goekler, Charles A., Pittsburg, Pa. Machine for pressing and molding butter	557,505	Mar. 31	3616	866	74	1877
Glover, Amasa S., Brockton, Mass. Sewage apparatus	559,522	May 5	292	69	75	739
Glover, Eli S., San Francisco, Cal. Temporary binder	556,816	Mar. 24	2395	563	74	1626
Glover, Fred D., and A. H. Smith, Duluth, Minn. Car-ventilating window	572,979	Dec. 15	1573	377	77	1616
Glover, George T., Chicago, Ill. Spring for vehicles	553,558	Jan. 28	1920	454	74	403
Glover, George T., Chicago, Ill. Steam logging-machine	554,260	Feb. 11	830	{ 189 190 }	{ 74 74 }	673
Glover, George T., Chicago, Ill. Making springs for vehicles	555,153	Feb. 25	2407	571	74	1003
Glover, George W., New York, N. Y. Toilet-case	566,752	Sept. 1	34	9	76	1287
Glover, George W., New York, N. Y. Toilet-case	566,753	Sept. 1	36	9	76	1287
Glover, James A., St. Louis, Mo. Hasp-lock	564,515	July 21	2225	522	76	441
Glunz, John, <i>et al.</i> (See Bidwell, Alonzo, assignor.)						
Gnadt, Adolph, assignor to W. B. Tamm, St. Louis, Mo. Pneumatic separator and drier	555,370	Feb. 25	2792	654	74	1075

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Goble, Charles W., assignor of one-half to L. A. Lanham, Canyon, Colo. Thill-coupling.....	567,090	Sept. 1	633	147	76	1402
Gocher, George, Lorain, and J. D. Schrecongost, Elyria, Ohio. Planing-machine.....	574,146	Dec. 29	3714	885	77	2045
Gochner, Harry, assignor to F. Clogg & Co., Lancaster, Pa. Umbrella-sheath.....	567,827	Sept. 15	1912	458	76	1666
Goddard, Charles F., Chicago, Ill. Motor and wheel for vehicles.....	574,200	Dec. 29	3852	918	77	2069
Goddard, Fred D., Everett, Mass. Stovepipe-damper.....	565,976	Aug. 18	1904	462	76	1011
Goddard, George O., assignor to F. S. Tolman, Brockton, Mass. Strip-feeding attachment for printing-presses.....	572,793	Dec. 8	1248	302	77	1534
Goddu, George. (See Goddu, Napoleon and G.)						
Goddu, Louis, Winchester, Mass., assignor to J. W. Brooks, trustee. Tack or nail machine.....	552,903	Jan. 14	778	{ 189 190 }	74	159
Goddu, Louis, Winchester, Mass., assignor to J. W. Brooks, trustee. Nailing-machine.....	563,478	July 7	413	96, 97	76	79
Goddu, Louis, Winchester, assignor to J. W. Brooks, trustee, Petersham, Mass. Sewing-machine.....	556,501	Mar. 17	1865	{ 435 436 437 }	74	1511
Goddu, Louis, Winchester, assignor to J. W. Brooks, trustee, Petersham, Mass. Sole-sewing machine.....	559,129	Apr. 28	2868	{ 691 692 }	75	590
Goddu, Louis, Winchester, assignor to J. W. Brooks, trustee, Petersham, Mass. Nailing-machine.....	565,074	Aug. 4	196	49	76	654
Goddu, Louis, Winchester, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Lasting apparatus.....	559,130	Apr. 28	2873	{ 692 693 }	75	591
Goddu, Louis, Winchester, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Rand or welt nailing machine.....	568,248	Sept. 22	2664	638	76	1819
Goddu, Louis, Winchester, assignor to J. W. Brooks, principal trustee, Petersham, and F. F. Stanley, associate trustee, Swampscott, Mass. Machine for inserting metallic fastenings into leather.....	565,073	Aug. 4	194	48	76	654
Goddu, Napoleon and G., Winchester, Mass. Sewing-machine.....	572,538	Dec. 8	784	{ 187 188 }	77	1442
Goddu, William, Winchester, assignor to A. Van Wagenen, Newton, Mass. Tacker.....	569,152	Oct. 6	734	175	77	143
Godfrey, Charles B., Milford, assignor to Boston Shelving Company, Boston, Mass. Stair construction.....	553,487	Jan. 21	1790	426	74	363
Goding, Edwin L., Portland, Me. Machine for sewing on shank-buttons.....	566,754	Sept. 1	37	{ 9 10 11 }	76	1287
Goding, Henry F., Deering, Me. Thill-support.....	555,505	Mar. 3	36	9	74	1137
Godley, George F., Philadelphia, Pa. Journal-box.....	563,270	July 7	65	16	76	14
Godley, John F., et al. (See Ivens, William H., Jr., assignor.)						
Goedjen, Henry. (See Drumm, Kraus, and Goedjen.)						
Goehring, Charles L. (See Van Houten, Frank H., assignor.)						
Goeppinger, L. & H. (See Weinman, Joseph C., assignor.)						
Goerdes, William F., Brooklyn, N. Y. Curtain-fixture.....	564,277	July 21	1838	430	76	370
Goerner, R. J., et al. (See Morrison, James D., assignor.)						
Goertz, August, Newark, N. J. Purse and pocket-book frame.....	559,100	Apr. 28	2784	675	75	575
Goertz, August, Newark, N. J. Bag-frame catch.....	571,159	Nov. 10	1332	310	77	914
Goertz, Carl P. (See Nerlich, Richard, assignor.)						
Goettel, John, Boston, Mass. Bottle-stopper.....	561,883	June 9	1464	354	75	1671
Goettel, John, Boston, Mass. Car-coupling.....	572,794	Dec. 8	1250	302	77	1535
Goettel, John, assignor of one-half to E. B. Newton, Boston, Mass. Bicycle.....	569,636	Oct. 20	1609	379	77	335
Goetz, Adam D., Charlestown, V. Va. Shaft-tug.....	561,049	May 26	3112	717	75	1343
Goetz, August C., assignor, by mesne assignments, to W. C. Henry and H. S. Esch, Milwaukee, Wis. Electrically-operated railway-switch.....	559,796	May 12	772	186	75	842
Goetze, Martin, Berlin, Germany. Device for producing dimples.....	560,351	May 19	1857	423	75	1093
Goff, Frank, assignor of one-half to O. G. Derby, Portland, Mich. Bag-holder.....	553,752	Jan. 28	2260	535	74	466
Goff, Frank C., Denver, Colo. Radiator-valve.....	562,957	June 30	3359	808	75	2085
Goff, John L., et al. (See Stansbury, George F., assignor.)						
Goff, Moses A. (See Grisell, Thomas S., assignor.)						
Goff, Samuel B. (See Richter and Eschler, assignors.)						
Gogle, John E., assignor of two-thirds to R. T. French, Middleville, and J. McQueen, Grand Rapids, Mich. Seal.....	570,126	Oct. 27	2476	586	77	507
Gogle, John E., assignor of two-thirds to R. T. French, Middleville, and J. McQueen, Grand Rapids, Mich. Car-seal.....	570,127	Oct. 27	2477	586	77	507
Gohlke, Louis. (See Linn and Gohlke.)						
Gohmann, Romanus H., and H. Terstegge, New Albany, Ind., assignors of one-half to Fischer-Leaf Company, Incorporated, Louisville, Ky. Kicker.....	557,666	Apr. 7	262	63	75	50
Göhring, Adolph, New York, N. Y. Reflector.....	566,165	Aug. 18	2208	538	76	1068
Goings, Hosea F. (See Phelps, Walter J. and E., assignors.)						
Goings, Claude, New London, N. H. Carriage-seat fastener.....	565,345	Aug. 4	726	173	76	751
Gold and Bromine Separating Company. (See Hinman, Bertrand C., assignor.)						
Gold, Edward E., New York, N. Y. Thermostatic trap.....	556,093	Mar. 10	1079	258	74	1349
Gold, Edward E., New York, N. Y. Thermostatic trap.....	556,094	Mar. 10	1083	258	74	1350
Gold, Edward E., New York, N. Y. Steam-separator.....	557,264	Mar. 31	3183	763	74	1795
Gold, Edward E., New York, N. Y. Steam heating apparatus for railway-cars.....	557,265	Mar. 31	3187	764	74	1795
Gold, Edward E., New York, N. Y. Safety-valve.....	563,371	July 7	232	53	76	47
Gold, Edward E., New York, N. Y. Car-heating apparatus.....	566,904	Sept. 1	286	66, 67	76	1337
Gold, Edward E., New York, N. Y. Heating apparatus for cars, &c.....	569,637	Oct. 20	1611	380	77	335
Gold, Edward E., New York, N. Y. Car-heating apparatus.....	571,359	Nov. 17	1660	{ 393 394 }	77	991
Gold, Edward E., New York, N. Y. Car-heating apparatus.....	572,254	Dec. 1	280	67, 68	77	1332
Gold, Willis D., Philadelphia, Pa. Car-fender.....	554,487	Feb. 11	1237	287	74	748
Goldberg, Hyman. (See Shapiro, Aaron, assignor.)						
Goldberg, Nehemiah, Philadelphia, Pa. Extension-case.....	567,026	Sept. 1	515	122	76	1379
Goldenberg, John, assignor of one-half to S. Cohen, Philadelphia, Pa. Cloth-spreading apparatus.....	564,969	Aug. 4	50	12	76	626
Golding, Joseph H., New York, N. Y. Advertising device.....	571,656	Nov. 17	2160	519	77	1082
Golding, William H., Boston, Mass. Printer's composing-stick.....	571,899	Nov. 24	2623	621	77	1187
Golding, William H., Boston, Mass. Rule and lead cutter.....	571,919	Nov. 24	2656	629	77	1194
Goldmann, Theodor G. B., assignor to A. Magdolf, Berlin, Germany. Making articles from homogeneous plastic compositions.....	561,938	June 9	1559	.....	75	1689
Goldrick, George H., and C. C. Vogl, Aniwa, Wis. Cattle-guard for railways.....	564,685	July 28	2527	598	76	514
Goldsberry, Robert. (See Steel and Goldsberry.)						
Goldsberry, William H., Chicago, Ill. Garment-cutter square.....	563,370	July 7	231	53	76	47
Goldschmidt, Carl, Frankfort-on-the-Main, Germany. Vanillin parphenetidin.....	572,890	Dec. 8	1392	.....	77	1564
Goldsmit, Charles W., New York, N. Y. Coin-controlled vending apparatus.....	553,459	Jan. 21	1733	414	74	353
Goldsmit, Ludwig, St. Louis, Mo. Billy-cane.....	566,306	Aug. 25	2438	597	76	1129
Goldsmit, Nathaniel O., assignor to F. C. Weir, Cincinnati, Ohio. Apparatus for purifying water.....	558,018	Apr. 7	911	228	75	171

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Goldsmith, Paul, Troy, N. Y. Pedal for pianos.....	564,191	July 21	1694	396	76	344
Goldstein, Albert, Philadelphia, Pa. Pneumatic fire-alarm.....	562,130	June 16	1893	459	75	1771
Goldstein, David, R. C. Dawson, and J. F. Krouse, Barnesborough, Pa. Railway-rail joint.....	564,278	July 21	1839	430	76	370
Goldstein, Philip, and G. Andrae, Newark, N. J.; said Andrae assignor to said Goldstein. Machine for cutting laces.....	567,130	Sept. 8	707	<div>{ 165 166 166 }</div>	76	1428
Goldstein, Philip, and G. Andrae, Newark, N. J.; said Andrae assignor to said Goldstein. Machine for cutting laces.....	567,131	Sept. 8	711	<div>{ 166 167 168 }</div>	76	1428
Goltz, William. (See Sinclair, William E., assignor.)						
Gomez, Alfredo D., Bucaramanga, Colombia. Machine for hulling coffee-berries.....	567,467	Sept. 8	1296	314	76	1533
Gonser, Charles E., <i>et al.</i> (See Waters, Charles S., assignor.)						
Gonser, James O., <i>et al.</i> (See Waters, Charles S., assignor.)						
Gontner, Aaron M., and F. G. Motter, York, Pa. Artificial fuel.....	563,162	June 30	3710		75	2152
Gonzalez, Laura M. Va. de., Mexico, Mexico. Combined time-indicator and trip-recording apparatus.....	552,957	Jan. 14	875	<div>{ 212 213 }</div>	74	178
Goo, Hiram, and S. B. Hopkins, Delevan, N. Y. Box-making machine.....	557,798	Apr. 7	494	<div>{ 118 119 }</div>	75	94
Gooch, Alphonso S., Little Rock, Ark., assignor to McDonald Cotton Compress Company, of Arkansas. Bale-tie.....	559,523	May 5	294	70	75	739
Gooch, Alphonso S., Little Rock, Ark., assignor to McDonald Cotton Compress Company, of Arkansas. Condenser.....	561,221	June 2	250	60, 61	75	1416
Gooch, Frank A., New Haven, assignor to Waldo Foundry, Bridgeport, Conn. Producing hydrous chlorid of aluminium.....	558,725	Apr. 21	2127	513	75	433
Gooch, Frank A., New Haven, assignor to Waldo Foundry, Bridgeport, Conn. Producing hydrous chlorid of aluminium.....	558,726	Apr. 21	2129	513	75	434
Gooch, Thomas C., Louisville, Ky. Centrifugal extractor.....	574,060	Dec. 29	3559	<div>{ 849 850 }</div>	77	2018
Good, Daniel D., <i>et al.</i> (See Cline, William, assignor.)						
Good, David H., Independence, Kans. Gate.....	554,180	Feb. 4	096	<div>{ 156 157 }</div>	74	632
Good, Robert J. (See Everson and Good.)						
Good, Robert J., Brooklyn, N. Y. Machine for drawing sheet metal.....	564,990	Aug. 4	51	12	76	627
Good, William E., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Blowing-engine or compressor.....	560,707	May 26	2520	579	75	1230
Good, William E., and A. Marichal, assignors to Southwark Foundry and Machine Company, Philadelphia, Pa. Blowing-engine.....	558,944	Apr. 28	2515	610	75	523
Goodale, Alfred M. (See Ryon, Eppa H., assignor.)						
Goodale, Charles W., Butte, and H. W. Hixon, Anaconda, Mont. Apparatus for treating mine-waters.....	567,312	Sept. 8	1028	246	76	1485
Goodall, John W., Hays City, Kans. Plow.....	558,275	Apr. 14	1355	331	75	273
Goodbar, James H., St. Louis, Mo. Combined wrapping and sizing machine for oranges, &c.....	553,559	Jan. 28	1923	<div>{ 455 456 457 }</div>	74	404
Goode, Frederick D., <i>et al.</i> (See Curtis, Frank G., assignor.)						
Goodell, Albert D., Shelburne Falls, Mass. Glass-cutter.....	557,200	Mar. 31	3072	736	74	1775
Goodell, Albert D., Shelburne Falls, Mass. Tool-holding chuck for bit-stocks.....	563,372	July 7	235	53	76	48
Goodell, Albert D., Shelburne Falls, Mass. Drill-chuck.....	566,905	Sept. 1	288	67	76	1338
Goodell, Albert D. and H. E., Greenfield, Mass. Breast-drill.....	557,328	Mar. 31	3299	791	74	1817
Goodell, Austin W., Philadelphia, Pa. Slab-sawing machine.....	559,524	May 5	295	70	75	739
Goodell, Austin W., and L. T. Pyott, assignors to said Goodell and D. A. Waters, Philadelphia, Pa. Means for laterally adjusting journal-bearings.....	566,166	Aug. 18	2209	538	76	1068
Goodell, Henry E. (See Goodell, Albert D. and H. E.)						
Goodfellow, John H., Lowell, assignor to Lamson Consolidated Store Service Company, Boston, Mass. Store-service apparatus.....	568,440	Sept. 29	2985	718	76	1894
Goodfellow, John H., Lowell, assignor to Lamson Consolidated Store Service Company, Boston, Mass. Store-service apparatus.....	568,441	Sept. 29	2986	718	76	1895
Goodhue, Frank M., St. Charles, Ill. Windmill.....	573,510	Dec. 22	2351	605	77	1815
Goodhue, James E., St. Charles, Ill. Power-transformer.....	563,955	July 14	1267	297	76	250
Gooding, Edward F. (See Scovil and Gooding.)						
Goodlett, Johnston E. J., Memphis, Tenn. Barrel-filling machine.....	570,851	Nov. 3	787	<div>{ 180 181 }</div>	77	785
Goodlett, Robert D., Nashville, Tenn. Gate-latch.....	558,276	Apr. 14	1356	331	75	273
Goodlett, Robert D., Nashville, Tenn. Sash-fastener.....	562,388	June 23	2324	565	75	1867
Goodman, Charles. (See Crawford, Milley P., assignor.)						
Goodman, Edward H. (See O'Kain, Domenec C., assignor.)						
Goodman, Edward H., and S. H. Stupakoff, Pittsburg, assignors to Union Switch and Signal Company, Swissvale, Pa. Switch and signal apparatus.....	554,927	Feb. 18	1968	470	74	909
Goodman, Louis, Chicago, Ill. Overalls.....	564,373	July 21	1995	468	76	398
Goodman, Samuel N., Philadelphia, Pa. Guard or shield for lamps or lanterns.....	559,078	Apr. 23	2740	666	75	565
Goodner, James A., and J. M. Chritton, Mosca, Colo. Rotary engine.....	573,179	Dec. 15	1920	<div>{ 460 461 }</div>	77	1682
Goodnow, Daniel, Boston, Mass. Buckle.....	569,638	Oct. 20	1614	380	77	336
Goodnow, Walter R., Boston, Mass. Jar-cover.....	556,095	Mar. 10	1026	258	74	1350
Goodrich, Frank L. (See Barnum, Russell S., assignor.)						
Goodrich, Frank L., Chicago, Ill. Tuck-marker for sewing-machines.....	553,850	Feb. 4	67	14	74	517
Goodrich, Frank L., and R. S. Barnum, Chicago, Ill. Hemmer.....	569,578	Oct. 13	1499	353	77	299
Goodrich, John C. (See Monnier, Alfred P., assignor.)						
Goodridge, Ira C., Rochester, N. Y. Envelop-stamper.....	569,454	Oct. 13	1262	<div>{ 217 22 23 }</div>	77	255
Goodridge, James F., Boston, assignor to C. J. Rolfe, Cambridge, Mass. Cash register, indicator, and recorder.....	557,577	Apr. 7	88	<div>{ 22 23 24 }</div>	75	18
Goodro, Henry W. (See Brownson and Goodro.)						
Goodsell, Zalmon. (See Grunow, William, Jr., assignor.)						
Goodspeed, Charles E., New York, N. Y. Holder for tools.....	570,923	Nov. 10	916	212	77	838
Goodspeed, Charles W. (See Conrad and Goodspeed.)						
Goodwin, Adolphus D., Haran, assignor of one-half to W. S. Surface, Riner, Va. Means for protecting trees from vermin.....	555,901	Mar. 3	707	170	74	1261
Goodwin, Ella, Chicago, Ill. Darning apparatus.....	568,110	Sept. 22	2430	584	76	1774
Goodwin, Ervin S. (See Baldwin and Goodwin.)						
Goodwin, George, assignor to D. Mayer, London, England. String-fastening for sounding-boards of musical instruments.....	572,677	Dec. 8	1033	251	77	1495
Goodwin, Hannibal, Newark, N. J. Process of and apparatus for making tubes for artists' colors, &c.....	570,728	Nov. 3	570	131	77	743

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Goodwin, Hugh W., <i>et al.</i> (See Wagner, Joseph I., assignor.)						
Goodwin, James, assignor of one-half to W. E. Goodwin, Lynn, Mass. Self-leveling ship's berth.....	567,708	Sept. 15	1699	408	76	1625
Goodwin, John B. (See Olsen and Goodwin.)						
Goodwin, John B., Pittsburg, Pa. Seat.....	569,153	Oct. 6	755	176	77	143
Goodwin, John F., assignor of one-half to G. E. Morrison, Sarnia, Canada. Automatic siphon-tank closet-flusher.....	567,091	Sept. 1	635	147	76	1402
Goodwin, McAllister. (See Hart, Griffith, and Goodwin.)						
Goodwin, Otis F. (See Harden, William H., assignor.)						
Goodwin, Walter E. (See Goodwin, James, assignor.)						
Goodwin, Thomas, Bilton, England. Magic lantern or other burner.....	555,947	Mar. 10	797	191	74	1298
Goodyear, Charles, Jr., New York, N. Y. Optical lantern.....	565,346	Aug. 4	727	{ 173 174	76	751
Goodyear, Charles, Jr., New York, N. Y. Electric-arc lamp.....	572,539	Dec. 8	785	188	77	1443
Goodyear, Robert B., assignor of one-half to J. Hoffman, Philadelphia, Pa. Heddle-motion for looms.....	559,278	Apr. 28	3150	{ 761 762	75	642
Goodyear, Robert B., assignor of one-half to Hughes & Russum, Philadelphia, Pa. Shuttle-box-operating mechanism for looms.....	564,374	July 21	1996	469	76	398
Goodyear Shoe Machinery Company. (See Barrett, Thomas, assignor.)						
Goodyear Shoe Machinery Company. (See Coupal, Peter A., assignor.)						
Goodyear Shoe Machinery Company. (See Criddle, Oliver, assignor.)						
Goodyear Shoe Machinery Company. (See Crisp and Copeland, assignors.)						
Goodyear Shoe Machinery Company. (See Dancel, Christian, assignor.)						
Goodyear Shoe Machinery Company. (See Francis, Frank E., assignor.)						
Goodyear Shoe Machinery Company. (See Johnson, Henry W., assignor.)						
Goodyear Shoe Machinery Company. (See Snow, Stephen, assignor.)						
Goodyear Shoe Machinery Company. (See Winkley, Erastus E., assignor.)						
Goodyear Shoe Machinery Company. (See Winkley and Phillips, assignors.)						
Goong, Martin B., Bastrop, La. Combined planter, cultivator, and harrow.....	564,612	July 28	2411	569	76	492
Gould, Frederick D., New York, N. Y., assignor, by mesne assignments, to General Electric Company, of New York. System of electrical distribution.....	565,740	Aug. 11	1455	355	76	906
Gould, Frederick D., Brooklyn, N. Y., assignor to General Electric Company, of New York. Storage-battery system.....	565,741	Aug. 11	1456	{ 355 356	76	906
Gould, Lewis W. (See Wootton and Gould.)						
Gould, William J. (See Weaver, Albert S., assignor.) (Reissue.)						
Goos, Henry, assignor of one-half to J. S. Brubaker, Lancaster, Pa. Game apparatus.....	566,307	Aug. 25	2438	597	76	1129
Goos, Louis. (See Stein, Theobald, assignor.)						
Goranson, Alexis R. (See Thomson and Goranson.)						
Gordon, Alphas M. (See Gordon, Edward C. and A. M.)						
Gordon, Andrew Y., Massillon, Ohio. Adjustable bracket for transmitters.....	569,376	Oct. 13	1139	271	77	234
Gordon-Burnham Battery Company. (See Gordon, Ralph W., assignor.)						
Gordon, Charles A., Bonner Springs, Kans. Vegetable-cutter.....	558,063	Apr. 14	1005	245	75	205
Gordon, Charles A., assignor of one-half to C. A. Sullens, Scruggs, Mo. Fodder-binder.....	572,980	Dec. 15	1574	378	77	1616
Gordon, Charles E. (See Gordon, William and C. E.)						
Gordon, Edward C. and A. M., Chetopa, Kans. Hedge-trimmer.....	553,116	Jan. 14	1150	279	74	230
Gordon, Elonso J., Greenville, Mich. Furnace-grate.....	574,030	Dec. 29	3503	837	77	2006
Gordon, Flonzo J. (See Choate, Charles N., assignor.)						
Gordon, Frederick W., assignor to Philadelphia Engineering Works, Limited, Philadelphia, Pa. Valve-gear clutch.....	556,817	Mar. 24	2396	563	74	1626
Gordon Hollow Blast Grate Company <i>et al.</i> (See Choate, Charles N., assignor.)						
Gordon, John H., assignor of part to T. Gordon, South Bend, Wyoming, and H. M. Rogers, Boston, Mass. Irrigation-shovel.....	557,380	Mar. 31	3388	814	74	1835
Gordon-Mitchell Gas Lamp Company. (See Gordon and Swift, assignors.)						
Gordon, Ralph W., New York, N. Y., assignor to Gordon-Burnham Battery Company, Portland, Me., and New York, N. Y. Galvanic battery.....	570,013	Oct. 27	2271	540	77	467
Gordon, Thomas. (See Smith and Gordon.)						
Gordon, Thomas, <i>et al.</i> (See Gordon, John H., assignor.)						
Gordon, Thomas, New York, N. Y. Gas-regulator.....	562,131	June 16	1895	459	75	1771
Gordon, Thomas, New York, N. Y. Life-preserver.....	572,109	Dec. 1	22	6	77	1282
Gordon, Thomas, and W. R. Swift, assignors to Gordon-Mitchell Gas Lamp Company, New York, N. Y. Lamp having a regenerative burner.....	554,866	Feb. 18	1884	443	74	890
Gordon, Thomas M., Cambridge, Mass. Pressure-gage.....	557,989	Apr. 7	825	196	75	155
Gordon, Thomas M., Boston, Mass. Signaling apparatus for pressure-gages.....	559,131	Apr. 28	2878	694	75	591
Gordon, William. (See Perry and Gordon.)						
Gordon, William and C. E., Boston, Mass. Last.....	556,096	Mar. 10	1087	259	74	1350
Gordon, William J., Binghamton, N. Y. Ventilating-chimney.....	555,643	Mar. 3	278	65	74	1180
Gordon, William L., Hot Springs, Ark. Fly-screen.....	567,828	Sept. 15	1913	458	76	1666
Gordon, William S. (See Archbold, George, assignor.)						
Gore, Alfred D., Boston, Mass. Machine for drilling railway rails.....	570,427	Oct. 27	3062	{ 725 726	77	617
Görge, Hans. (See Hefner-Alteneck and Görge.)						
Gorham, George E., Albany, N. Y. Invalid-bedstead.....	559,973	May 12	1141	255	75	913
Gorham, George E., Albany, N. Y. Invalid-bedstead.....	559,974	May 12	1144	{ 255 256	75	914
Gorin & Co. (See Gorin, Fred P., assignor.)						
Gorin, Fred P., assignor to Gorin & Co., Chicago, Ill. Type-writing machine.....	559,449	May 5	178	39	75	716
Gorman, Dennis F., Philadelphia, Pa. Shield for bicycle-handles.....	568,024	Sept. 22	2263	547	76	1744
Gorman, Henry W. (See Maxwell and Gorman.)						
Gorman, James F., Wilkes-Barré, Pa. Radiator-rest.....	569,916	Oct. 20	2100	500	77	423
Gorman, Thomas, Warren, assignor of one-half to F. H. Brown, Warwick, R. I. Spindle-support.....	567,973	Sept. 22	2151	517	76	1724
Gorn, Hermann A., New York, N. Y. Electric-circuit controller.....	552,756	Jan. 7	465	116	74	88
Gorrell, William R., Carlin's Run, assignor of two-thirds to E. O. Bayles and S. Davis, Harford county, Md. Cheese-cutter.....	570,472	Nov. 3	58	14	77	649
Gorris, Frank J., Independence, Ohio. Gripper.....	560,708	May 26	2523	579	75	1231
Gorsuch, Edward, Roaring Spring, Pa. Tire-tightener.....	573,780	Dec. 22	3033	718	77	1907
Gorsuch, Edward, Roaring Spring, Pa. Tire-coupling.....	573,781	Dec. 22	3033	719	77	1907
Gorter, Henry H., San Francisco, Cal. Adjustable nozzle for hose-pipes.....	557,799	Apr. 7	499	120	75	95
Gorton, Adelos, Philadelphia, Pa. Electric railway.....	569,331	Oct. 13	1065	{ 252 253	77	220
Gorton, Charles, New York, N. Y. Sectional steam-boiler.....	571,657	Nov. 17	2161	520	77	1082

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Gorton, Truman B. (See Thomas and Gorton.)						
Gorton, William E. (See Applegate, Eugene W., assignor.)						
Goschel, Otto, and B. Sutter, assignors of one-third to H. Muselmann, St. Louis, Mo. Street-sweeper.	570,749	Nov. 3	611	{ 140 141 }	77	750
Goschel, Otto, and B. Sutter, assignors of two-thirds to H. Muselmann, St. Louis, Mo. Street-sweeper	570,750	Nov. 3	613	141	77	751
Goserud, Ole O., Grant county, S. D. Water-elevator.	556,844	Mar. 24	2432	572	74	1634
Goss, George F., Wallaceton, Pa. Pool-table rack and tally	562,522	June 23	2539	{ 617 618 }	75	1908
Goss, Henry L. (See Warner, Hays, and Rogers, assignors.)						
Goss Printing Press Company. (See Firm, Joseph L., assignor.)						
Goss Printing Press Company. (See Goss, Samuel G., assignor.)						
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Folding-machine.	569,917	Oct. 20	2101	{ 500 501 502 }	77	423
Gossweiler, Gustav, Zurich, Switzerland. Exercising device	562,389	June 23	2325	{ 565 566 }	75	1867
Gostomski, John J., and B. Kiniewski, assignors to M. A. Monaghan, Cleveland, Ohio. Curtain-frame	561,106	June 2	51	14	75	1377
Gotsch, C. J. (See Remus, August E., assignor.)						
Gotthelf, Harry J., et al. (See Gottschalk, Louis, assignor.)						
Gottlieb, Rudolf, Heidelberg, assignor to Knoll & Co., Ludwigshafen, Germany. Albumen-tannin and making it	563,479	July 7	416		76	80
Gottschalk, John W., and S. P. Sipe, Philadelphia, Pa. Toy egg	564,686	July 28	2528	598	76	515
Gottschalk, Louis, assignor of two-thirds to H. J. Gotthelf and F. R. Baker, Chicago, Ill. Making soap	573,084	Dec. 15	1759		77	1652
Gottshall, Martin, assignor of two-thirds to L. Kiefer and A. Krueckel, Oakland, Cal. Combined harrow and roller	559,975	May 12	1148	256	75	915
Gottwals, William O., Ottawa, Canada, and F. L. Ellis, Milldale, Conn.; said Ellis assignor to said Gottwals. Letter or bill file	554,261	Feb. 11	832	190	74	674
Goucher, William E., Jamestown, N. Y. Door-lock switch for electric lights.	561,107	June 2	52	14	75	1377
Gould, Aaron P., Canton, Ohio. Dental chair.	562,390	June 23	2325	566	75	1867
Gould, Aaron P., Canton, Ohio. Surgical and dental chair	562,391	June 23	2327	567	75	1868
Gould, Charles L., assignor to Gould Contracting and Supply Company, Chicago, Ill. Apparatus for handling and disposing of excavated material.	562,820	June 30	3086	{ 747 748 }	75	2028
Gould, Claude C., Philadelphia, Pa., assignor, by mesne assignments, to Eastern Telephone Switchboard Company, Camden, N. J. Telephone system	564,745	July 28	2636	{ 627 628 }	76	533
Gould, Claude C., Buffalo, N. Y., assignor to Eastern Telephone Switchboard Company, Camden, N. J. Annunciator.	564,746	July 28	2640	628	76	534
Gould Contracting and Supply Company. (See Gould, Charles L., assignor.)						
Gould Coupler Company. (See Richards, Willard F., assignor.)						
Gould Coupler Company. (See Smyser, Louis B., assignor.)						
Gould, David W., assignor to C. W. Hayes and A. A. Friedrich, Washington, D. C. Oil-cleansing apparatus	553,710	Jan. 28	2183	518	74	451
Gould, Duncan H., East Zorra, Canada. Fruit-picker.	564,881	July 28	2261	686	76	574
Gould, Henry E. (See Linke and Gould.)						
Gould, John D., et al. (See Reed, Henry A., assignor.)						
Gould, John D., et al. (See Tisdale, Charles D., assignor.)						
Gould, John D., Brooklyn, N. Y. Electrical fire-alarm system	565,410	Aug. 4	828	196	76	770
Gould, Mattie A., et al. (See Littleworth, Malcolm C., assignor.)						
Gould, Mortimer D., Sr., Salida, Colo. Tire-shrinker	553,192	Jan. 14	1283	310	74	255
Gould, Ovid M., Montreal, Canada. Brake	564,246	July 21	1775	{ 415 416 }	76	361
Gould, Samuel A., assignor to R. S. Fleming and J. B. Dobyne, Chicago, Ill. Foot-power machine	564,372	July 21	2337	549	76	459
Gould, Theodore, Jr. (See Evans, Fredric B., assignor.)						
Gould, Wallace W., assignor to Warner Brothers Company, Bridgeport, Conn. Corset	561,222	June 2	254	61	75	1417
Gould, Wesley C., et al. (See Littleworth, Malcolm C., assignor.)						
Gould, Willard A., et al. (See Littleworth, Malcolm C., assignor.)						
Gould, Willard H., et al. (See Wilson, Francis W., assignor.)						
Goulding, John W., and W. C. Kemble, Trenton, N. J. Brush	553,402	Jan. 21	1649	394	74	336
Goulvin, Francois L., Valence, France. Resonator for pianos.	572,981	Dec. 15	1576	374	77	1616
Gousset, Cyprien, New York, N. Y. Chocolate-dipper	552,833	Jan. 7	625	152	74	118
Gowan, Louise E. (See Gowan, Richard H. and L. E.)						
Gowan, Richard H., Corsicana, Tex. Saw attachment	564,192	July 21	1696	397	76	345
Gowan, Richard H. and L. E., Corsicana, Tex. Machine for hanging wall-paper	566,680	Aug. 25	3093	{ 755 756 }	76	1252
Gowen, William A., Portland, Me. Thill-coupling	562,392	June 23	2330	567	75	1868
Grabert, Gus W. (See Staiger and Grabert.)						
Grabert, Henry W., assignor of one-fourth to C. A. Keating, Dallas, Tex. Cotton-gin	568,610	Sept. 29	3318	{ 795 796 }	76	1956
Grabill, John D., assignor of one-fourth to M. C. Price, Roanoke, Va. Combined stock and box car.	553,193	Jan. 14	1285	311	74	255
Grable, V. L. (See Laube, Godfried, assignor.)						
Grace, Claude M., assignor of one-half to A. E. Bragg, Philadelphia, Pa. Block-signal telegraph	556,670	Mar. 17	2129	497	74	1560
Grace, Henry S., and A. D. Reynolds, assignors to Grace-Reynolds Labeling Machine Company, San Francisco, Cal. Bottle-labeling machine	558,064	Apr. 14	1006	{ 245 246 }	75	206
Grace, Patrick J. (See Ballam, De Lacy E., assignor.)						
Grace-Reynolds Labeling Machine Company. (See Grace and Reynolds, assignors.)						
Grady, Charles F., Buffalo, N. Y. Apparatus for refining petroleum	556,412	Mar. 17	1696	395	74	1479
Grady, Irby L., St. Louis, Mo. Attachment for watchmakers' lathes.	556,182	Mar. 10	1245	291	74	1379
Grady, Michael J., and R. McMillan, Kingston, Canada. Car-coupling.	562,166	June 30	3715	{ 888 889 }	75	2153
Grady, William F., Boston, and R. S. Robson, Somerville, Mass.; said Robson assignor of one-fifth to said Grady. File for holding sales-slips	563,956	July 14	1270	297	76	251
Graebing, Henry S., assignor of two-thirds to J., Sr., and J. Olliffe, Jr., Allegheny, Pa. Air-brake for railway-cars	569,823	Oct. 20	1949	463	77	395
Graefe, Charles, Sandusky, Ohio. Air-pump	565,893	Aug. 18	1726	423	76	975
Graessle, Charles, Woodbury, N. J., assignor to Woodbury Manufacturing Company, of New Jersey. Caster	568,025	Sept. 22	2264	548	76	1744
Graf, Charles L., Allegheny, Pa. Druggist's prescription-file.	570,308	Oct. 27	2-53	677	77	578
Graf, Frederick J., New York, N. Y. Car-fender.	561,163	June 2	155	40, 41	75	1396
Graf, John H., Reed City, Mich. Air-forcing device for gas-machines.	564,786	July 28	2710	644	76	546

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Graf, Martin T., Buffalo, N. Y. Trolley for electric railways	562,132	June 16	1898	459	75	1772
Graff, Andrew, Brooklyn, N. Y. Hook and eye	559,484	May 5	236	53	75	728
Graff, Andrew, Brooklyn, N. Y. Pneumatic tire	563,893	June 30	3222	779	75	2055
Graff, Andrew, Brooklyn, N. Y. Pneumatic tire	568,564	Sept. 29	3217	775	76	1936
Graff, Conrad, assignor of one-half to J. S. Phillips, Gunnison, Colo. Gold-amalgamating apparatus	569,710	Oct. 20	1761	418	77	361
Graff, George E. (See Van Fleet, Fred, assignor.)						
Graffey, Alfred H., Indianapolis, Ind. Shirt-waist	564,925	July 28	2945	702	76	590
Grafstrom, Edward, Columbus, Ohio. Means for attaching couplings to cars	561,781	June 9	1301	312	75	1641
Graham, Alfred, London, England. Telephone-transmitter	555,154	Feb. 25	2408	571	74	1003
Graham, Alfred, London, England. Telephone system	563,920	July 14	1198	{ 281 282 }	{ 76 }	239
Graham, David F. (See Hawks and Graham.)						
Graham, David F., Dayton, Ohio, assignor to International Sweeping Machine Company, of West Virginia. Street-sweeper	553,029	Jan. 14	983	{ 238 239 }	{ 74 }	198
Graham, David F., Springfield, assignor of one-half to Stoddard Manufacturing Company, Dayton, Ohio. Hay rake and loader	566,308	Aug. 25	2440	{ 597 598 599 }	{ 76 }	1129
Graham, David F., Springfield, Mass., assignor to American Stoker Company, Dayton, Ohio. Underfed stoker	570,924	Nov. 10	917	{ 212 213 }	{ 77 }	838
Graham, David F., assignor of one-half to G. D. Chamberlain, Springfield, Mass. Stopper-lock	572,160	Dec. 1	118	28	77	1300
Graham, Edward S., Philadelphia, Pa. Car-fender	556,969	Mar. 24	2649	622	74	1675
Graham, Evander M., and L. R. Colwell, Ruston, La. Axle-skein	572,161	Dec. 1	119	28	77	1300
Graham, Jesse A., assignor of one-half to D. P. Shields, St. Louis, Mo. Car-fender	572,601	Dec. 8	906	219	77	1470
Graham, John B. (See Williamson, Collins, and Graham.)						
Graham, John H., Boston, Mass. Car-truck	570,473	Nov. 3	60	14	77	649
Graham, John H., Boston, Mass., assignor to Consolidated Railway Supply Company, Boston, Mass., and Providence, R. I. Radial car-truck	555,857	Mar. 3	618	148	74	1243
Graham, Joseph K., Port Royal, Pa. Beefsteak-tenderer	563,271	July 7	66	16	76	14
Graham, Lottie M., Dayton, Ohio. Veil-fastener	554,059	Feb. 4	463	104	71	559
Graham, Malcolm, et al. (See Beardsley, William N., assignor.)						
Graham, Martin F., Springfield, Ohio. Scissors attachment	554,599	Feb. 11	1412	331	74	784
Graham, Robert S., and W. B. Savell, assignors to Type-Writer Cushion-Key Company, Newark, N. J. Key for type-writing machines	563,163	June 30	3711	888	75	2152
Graham, Robert S., and W. B. Savell, assignors to Type-Writer Cushion-Key Company, Newark, N. J. Article consisting of inlaid soft rubber and producing same	563,164	June 30	3712	888	75	2152
Graham, Robert S., and W. B. Savell, assignors to Type-Writer Cushion-Key Company, Newark, N. J. Type-writing-machine cushion-key	569,196	Oct. 13	822	192	77	172
Graham, Thomas W., Dubuque, Iowa. Corrugating-machine	570,729	Nov. 3	572	131	77	743
Graham, William A., Carlisle, Pa. Hydrant	570,283	Oct. 27	2762	657	77	562
Graizier, Jean, Geneva, Switzerland. Conduit for electric lines	559,701	May 5	590	140	75	794
Grand Detour Plow Company. (See Ruef, Charles S., assignor.)						
Grand Rapids Brass Company. (See Tobey, Fred W., assignor.)						
Grand Rapids Cycle Company. (See Duke, Charles W., assignor.)						
Grand Rapids Desk Company. (See Strahan, John T., assignor.)						
Grand Rapids Piano Case Company. (See Crater, George W., assignor.)						
Grand Rapids School Furniture Company. (See Linn, Allen D., assignor.)						
Grand Rapids School Furniture Company. (See Linn and Gohlke, assignors.)						
Grandjean, née Unold, Albertine, Paris, France. Filter	571,474	Nov. 17	1851	441	77	1026
Grandjean, William A. (See Herstron and Grandjean.)						
Grandpre, Grant J., Chamberlain, S. D. Tire-tightener	556,142	Mar. 10	1168	274	74	1366
Grandstaff, Thomas S., Beham, Pa. Corn-planter	554,262	Feb. 11	834	191	74	674
Grandy, Edward F. (See Copeland, Crisp, Grandy, and Avery.)						
Grandy, Edward F., Everett, Mass. Lasting-machine	552,834	Jan. 7	627	{ 152 153 154 }	{ 74 }	118
Graner, Lonis, New York, N. Y. Divided skirt	563,764	July 14	897	214	76	184
Graney, John L., et al. (See Graney, Michael J., assignor.)						
Graney, Michael J., assignor to J. L. and W. J. Graney, Allegheny, Pa. Furnace	555,371	Feb. 25	2794	654	74	1075
Graney, William J., et al. (See Graney, Michael J., assignor.)						
Grauger, Frank D., New York, N. Y. Single-trigger lock for double-barrel guns	572,480	Dec. 1	682	164	77	1409
Granger, Frank E., Malden, assignor to Grant Manufacturing Company, Boston, Mass. Saddle for bicycles	558,917	Apr. 21	2465	600	75	496
Granger, John W., Philadelphia, Pa. Wire-feeding device	562,222	June 16	2043	{ 494 495 }	{ 75 }	1799
Granjon, Jean B., Chatonnay, France. Steam-generator	572,750	Dec. 8	1177	283	77	1521
Grannis, John, Lancaster, N. H. Axle-nut wrench	558,874	Apr. 21	2384	581	75	482
Grant, Albert E., Troy, N. Y. Machine for turning points of collars	559,279	Apr. 28	3154	762	75	643
Grant, Arthur W., Springfield, Ohio. Rubber-tired wheel	554,675	Feb. 18	1552	366	74	826
Grant, Arthur W., assignor to Rubber Tire Wheel Company, Springfield, Ohio. Device for putting on rubber tires	555,480	Feb. 25	3001	715	74	1113
Grant, Charles A., Middleburg, Va. Box	557,120	Mar. 31	2909	695	74	1749
Grant, Charles N., et al. (See Murray and Cole, assignors.)						
Grant, Frank S., assignor to Grant & Warner, Waterbury, Conn. Pocket cash-register	568,565	Sept. 29	3218	775	76	1936
Grant, Horace E., Pittsburg, Pa. Domestic boiler	557,504	Mar. 31	3615	866	74	1877
Grant, Hurlbert, Tiffin, and L. C. Grant, Willoughby, Ohio. Fence-post	573,385	Sept. 8	1168	279	76	1509
Grant, Jonathan W., Fall River, Mass. Yarn-dyeing machine	563,165	June 30	3713	888	75	2152
Grant, Lewis C. (See Grant, Hurlbert and L. C.)						
Grant Manufacturing Company. (See Granger, Frank E., assignor.)						
Grant & Warner. (See Grant, Frank S., assignor.)						
Grant, William S., Cleveland, Ohio. Curtain-rod support	565,075	Aug. 4	199	50	76	654
Grant, William W., Brooklyn, N. Y. Road-vehicle	552,757	Jan. 7	467	{ 116 117 118 }	{ 74 }	88
Grant, William W., Brooklyn, N. Y. Gas or vapor engine	553,460	Jan. 21	1737	{ 415 416 }	{ 74 }	353
Grant, William W., Brooklyn, N. Y. Gas-engine	553,488	Jan. 21	1791	427	74	363
Granville, Bernard, New York, N. Y., assignor to A. G. Corre, Cincinnati, Ohio. Type-writing machine	555,443	Feb. 25	2932	696	74	1100
Granville, Bernard, Chicago, Ill., assignor to A. G. Corre, Cincinnati, Ohio. Type-writing machine	570,432	Oct. 27	3073	{ 729 730 731 }	{ 77 }	618
Granville, Bernard, Chicago, Ill., assignor to A. G. Corre, Cincinnati, Ohio. Type-writer	570,433	Oct. 27	3075	{ 730 731 }	{ 77 }	619
Gras, Charles A., assignor to F. Deimel, New York, N. Y. Furnace apparatus	568,899	Oct. 6	311	71, 72	77	60

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Gras, Charles A., assignor to F. Deimel, New York, N. Y. Furnace	568,900	Oct. 6	313	72	77	80
Grassler, William F., assignor of two-thirds to R. A. Hoffnagle and J. L. Guinter, Williamsport, Pa. Knockdown table	562,133	June 16	1900	460	75	1772
Grassler, William F., assignor of two-thirds to R. A. Hoffnagle and J. L. Guinter, Williamsport, Pa. Electric railway	567,540	Sept. 8	1403	337	76	1553
Grassmann, Anna, New York, N. Y. Corset	567,027	Sept. 1	516	122	76	1380
Grassow, Gustav A., Indianapolis, Ind. Game-board	566,309	Aug. 25	2444	599	76	1130
Grater, Frank B., assignor to American Ship Windlass Company, Providence, R. I. Hoisting-winch	573,326	Dec. 15	2196	525	77	1731
Grather, Charles F., New York, N. Y. Car fender and brake	559,891	May 12	1000	222	75	884
Grau, John M., Washington, D. C. Tobacco-pipe	559,485	May 5	237	53	75	728
Grau, John M., Washington, D. C. Bottle	562,958	June 30	3360	808	75	2085
Grauten, Charles C., <i>et al.</i> (See Doty, William W., assignor.)						
Grauten, Joseph C., <i>et al.</i> (See Doty, William W., assignor.)						
Gravel, Octave, assignor of one-half to J. J. Gerondale, Ingalls, Mich. Running-gear for vehicles	571,856	Nov. 24	2532	600	77	1171
Graves, Albert H., <i>et al.</i> (See Wright, Elmer H., assignor.)						
Graves, Earl, Kokomo, Ind. Buckle	556,413	Mar. 17	1698	396	74	1480
Graves, Frank W., Woburn, Mass. Regulating-damper for controlling incoming currents of air	571,658	Nov. 17	2163	520	77	1082
Graves, John, Brooklyn, N. Y., assignor, by mesne assignments, to National Wrought Steel Manufacturing Company. Sheet-metal summer piece and frame	562,393	June 23	2331	568	75	1868
Graves, John, Brooklyn, N. Y., assignor, by mesne assignments, to National Wrought Steel Manufacturing Company. Sheet-metal sad-iron holder	562,394	June 23	2332	568	75	1869
Graves, Oriel M., North Yakima, Wash. Magnetic ore-separator	557,121	Mar. 31	2910	696	74	1749
Graves, Robert, Irvington, N. Y. Electric stand-lamp	558,727	Apr. 21	2132	513 514	75	434
Graves, Willis N., assignor to Hydraulic Press Brick Company, St. Louis, Mo. Hydraulic brick-machine	565,111	Aug. 4	279	66 67 68	76	668
Graves, Willis N., assignor to Hydraulic Press Brick Company, St. Louis, Mo. Hydraulic brick-machine	565,112	Aug. 4	287	68	76	670
Graves, Willis N., assignor to Hydraulic Press Brick Company, St. Louis, Mo. Hydraulic brick-machine	565,113	Aug. 4	288	68, 69	76	670
Gravier, Alphonse I., Paris, France. Dynamo-electric machine	561,390	June 2	577	144 145	75	1481
Gravis, John B., Canton, Ohio. Horseshoe	556,818	Mar. 24	2397	563	74	1627
Gray, Alexander, Canterbury, New South Wales. Apparatus for use in starting races	556,462	Mar. 17	1795	416	74	1498
Gray, Andrew G., St. John, Canada. Heating-stove	561,662	June 9	1066	258	75	1596
Gray, Elisha, Highland Park, Ill. Fare register and indicator	561,310	June 2	434	107	75	1454
Gray, Elisha, Highland Park, Ill. Lock	572,633	Dec. 8	959	232	77	1481
Gray, Frank, assignor to C. D. Cox, Chicago, Ill. Sprinkler system for extinguishing and preventing spreading of fires in lumber-yards, &c	561,311	June 2	438	108	75	1455
Gray, George J., and W. F. Hitchcock, Rochester, N. Y. Apparatus for manufacturing acetylene gas	559,846	May 12	903	201	75	866
Gray, Harding F. (See Esmond and Gray.)						
Gray, Henry F., assignor to W. P. Harrison, Columbus, Ohio. Photographic case for monuments	559,702	May 5	591	140	75	795
Gray, Henry J. (See Schaefer and Gray.)						
Gray, Hiram A., New Haven, Conn. Trolley device	562,523	June 23	2541	618	75	1908
Gray, J. G., assignee. (See Harris, Edward P., assignor.)						
Gray, John W., Stillwood, S. C. Bit-stock	571,267	Nov. 10	1509	357	77	947
Gray, Joshua W., Chicago, Ill. Line-holder	557,800	Apr. 7	501	120	75	95
Gray, Luke E. (See Coupal and Gray.)						
Gray National Telautograph Company. (See Etheridge, Harry, assignor.)						
Gray National Telautograph Company. (See Tiffany, George S., assignor.)						
Gray, Robert. (See Jamieson and Gray.)						
Gray, Stephen B., Jacksonville, Ill. Traction-engine	556,346	Mar. 17	1570	367 368	74	1455
Gray Telephone Pay Station Company. (See Gray, William, assignor.)						
Gray, William, assignor to Gray Telephone Pay Station Company, Hartford, Conn. Coin-controlled signal apparatus	569,195	Oct. 13	820	192	77	172
Gray, William, assignor of one-half to C. Soby, Hartford, Conn. Base-ball mask	571,437	Nov. 17	1791	427	77	1015
Gray, William B. (See Rollandet and Gray.)						
Gray, William D., assignor to Edward P. Allis Company, Milwaukee, Wis. Sifting-machine	559,378	May 5	47	10, 11	75	689
Gray, William D., assignor to Edward P. Allis Company, Milwaukee, Wis. Dust-collector	567,341	Sept. 8	1086	261 262	76	1496
Gray, William H., Eddyville, Iowa. Corn-harvester	572,110	Dec. 1	23	6	77	1382
Gray, Zimri D., assignor to W. S. Witten, South Omaha, Nebr. Seal	564,067	July 14	1465	344	76	288
Grayson, William. (See Crecelius, Louis J., assignor.)						
Greaves, William A., Hyde Park, Ohio. Machine for finishing staves	554,676	Feb. 18	1553	366	74	826
Grebenstein, Charles H., New York, N. Y. Machine for molding confections	568,481	Sept. 29	3051	733 734 735	76	1906
Green, Allison T., assignor of one-half to J. F. Kelsey, Jewell City, Kans. Door-latch	557,578	Apr. 7	96	24	75	19
Green, Charles E. and T. H., London, England. Candle-lamp	566,755	Sept. 1	42	11	76	1288
Green, Charles F., Worcester, Mass. Chimney-thimble	563,587	July 7	597	139	76	112
Green, Charles M., Highland Park, Ill. Perforating device	556,051	Mar. 10	1006	240	74	1336
Green, Charles M., Highland Park, Ill. Dyer's basket	572,634	Dec. 8	963	232	77	1481
Green, Charles M., Highland Park, Ill. Box	573,782	Dec. 22	3034	719	77	1908
Green, Charles M., Chicago, Ill. Sash-fastener	571,360	Nov. 17	1663	394	77	991
Green, Charles M., Cleveland, Ohio, assignor to General Electric Company, of New York. System for generating and distributing electrical energy	573,647	Dec. 22	2820	666	77	1867
Green, David I. (See Eakright and Green.)						
Green, Edward A., Battle Creek, Mich. Bicycle-bearing	572,003	Nov. 24	2795	659	77	1220
Green, Frank A. (See Chaffee, Hoffman, and Green.)						
Green, George E., <i>et al.</i> (See Cox, Frank S., assignor.)						
Green, George R. (See Wirt, Green, and Burger.)						
Green, George R., assignor to American Electric Meter Company, Philadelphia, Pa. Electric motor	571,043	Nov. 10	1117	261	77	875
Green, George W., Lavender Bay, assignor to S. Brown, Mossman, New South Wales. Frame-bevel and clamp	562,524	June 23	2543	618	75	1909
Green, Henry, assignor to Aetna Electric Company, Hartford, Conn. Incandescent lamp	553,673	Jan. 28	2123	503	74	439

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Green, Herman, assignor, by mesne assignments, to New York Waistband Company, New York, N. Y. Loop-securing device for waistbands, &c.	553,645	Jan. 28	2081	491	74	432
Green, Herman, assignor, by mesne assignments, to New York Waistband Company, New York, N. Y. Waistband	553,646	Jan. 28	2083	491	74	432
Green, Herman, assignor, by mesne assignments, to New York Waistband Company, New York, N. Y. Waistband	553,647	Jan. 28	2084	491	74	432
Green, J. Frank, Mansfield, Ohio. Carbon-book	573,871	Dec. 29	3212	764	77	1954
Green, James. (See Dods, John C., assignor.)						
Green, John C., Peoria, Ill. Boot or shoe stretcher	563,588	July 7	598	139	76	112
Green, John C., Peoria, Ill. Instep-stretcher for boots or shoes	566,572	Aug. 25	2932	716	76	1222
Green, John D., et al. (See Sloan, Alexander, assignor.)						
Green, John G., assignor of one-half to A. J. Harpole, Union City, Tenn. Car-coupling	570,796	Nov. 3	684	157	77	765
Green, John M., et al. (See Armstrong, Robert G., assignor.)						
Green, Joseph H., Columbia, S. C. Sand-drier	555,001	Feb. 18	2123	505	74	934
Green Lake Granite Company. (See Birum, Carlus C., assignor.)						
Green, Richard A., and A. E. Lawton, Chicago, Ill. Photographic-background carrier	557,990	Apr. 7	826	196	75	155
Green, Robert G., et al. (See Wheeler, William H., assignor.)						
Green, Robert P., Columbus, Ohio. Telephone-transmitter	567,132	Sept. 8	718	168	76	1430
Green, Roselle T., Worcester, Mass. Adjustable bracket for curtain-rolls	558,945	Apr. 28	2516	610	75	523
Green, Thomas E., et al. (See Carlie, George F., assignor.)						
Green, Thomas H. (See Green, Charles E. and T. H.)						
Green, Thomas W., Philadelphia, Pa. Rotary blower	559,703	May 5	592	140	75	795
Green, Thomas W., assignor to Wilbraham Bank Blower Company, Philadelphia, Pa. Impeller for rotary blowers	565,347	Aug. 4	728	174	76	751
Green, William H., Streator, Ill. Air-pump governor	559,379	May 5	51	12	75	690
Green, William L., Monroe City, Mo. Wire-stretcher	553,236	Jan. 21	1359	331	74	283
Green, William W., Yorktown, Kans. Corn-harvester	571,857	Nov. 24	2533	600	77	1171
Greenawalt, John E. (See Robinson, William, assignor.)						
Greene, Anna P., et al. (See Greene, Thomas C., assignor.)						
Greene, Carleton, Buffalo, assignor to Barber Asphalt Paving Company, New York, N. Y. Mixing-machine	558,802	Apr. 21	2262	547	75	458
Greene, Charles P. (See Depro and Baker, assignors.)						
Greene, Darwin A., Brooklyn, N. Y. Kindling-wood bundler	562,722	June 23	2298	703	75	1975
Greene, Darwin A., Brooklyn, N. Y. Wood-bundling machine	573,971	Dec. 29	3406	816 817	77	1989
Greene, Edward E., assignor to himself and G. R. Christie, New York, N. Y. Combined walking-stick and umbrella	572,983	Dec. 15	1579	379	77	1617
Greene, Elias M. (See Francis, John C., assignor.)						
Greene, Ernest F., Fort Dodge, Iowa. Music case or portfolio	554,060	Feb. 4	464	104	74	589
Greene, Jacob W., Trenton, Mo. Tree appliance for destroying insects	561,391	June 2	579	145	75	1481
Greene, Oliver, Buffalo, N. Y. Self-dumping shipping and storing case	559,797	May 12	775	126	75	843
Greene, Thomas C., assignor to A. P. Greene, Liberty, Ind., B. C. Koch, Tremont, Ill., and L. A. Kinsey, Indianapolis, Ind. Fence	569,019	Oct. 6	524	121	77	100
Greene, William F., Troy, N. Y. Bail-handle	552,758	Jan. 7	473	117	74	89
Greene, William J., Cedar Rapids, Iowa. Automatic cut-out for electrical converters	554,508	Feb. 11	1258	294	74	754
Greenewald, Joseph C., et al. (See Geary, James, assignor.)						
Greenfield Automatic Fastener Company. (See Greenfield, Edwin T., assignor.)						
Greenfield Automatic Fastener Company. (See Keyes, James A., assignor.)						
Greenfield, Edwin T., New York, N. Y., assignor, by mesne assignments, to Interior Conduit and Insulation Company. Producing paper elbows	553,674	Jan. 28	2124	503	74	439
Greenfield, Edwin T., assignor to Interior Conduit and Insulation Company, New York, N. Y. Lining metal tubes with fibrous material	570,165	Oct. 27	2542	604 605	77	520
Greenfield, Edwin T., assignor to Interior Conduit and Insulation Company, New York, N. Y. Insulating-joint for metal or armored conduit-tubes	570,166	Oct. 27	2545	605	77	521
Greenfield, Edwin T., assignor to Interior Conduit and Insulation Company, New York, N. Y. Metallic junction-box and means for uniting metal conduit-tubes thereto	570,167	Oct. 27	2546	605	77	521
Greenfield, Edwin T., assignor to Interior Conduit and Insulation Company, New York, N. Y. Underground conduit	570,168	Oct. 27	2547	605 606	77	522
Greenfield, Edwin T., assignor to Interior Conduit and Insulation Company, New York, N. Y. Conduit-tube	570,169	Oct. 27	2550	606	77	522
Greenfield, Edwin T., assignor to Interior Conduit and Insulation Company, New York, N. Y. Insulating-joint for conduit-tubes	570,170	Oct. 27	2551	606	77	522
Greenfield, Edwin T., assignor to Greenfield Automatic Fastener Company, New York, N. Y. Stapling-machine	572,293	Dec. 1	363	86, 87	77	1348
Greenfield, Edwin T., assignor to Greenfield Automatic Fastener Company, New York, N. Y. Stapling-machine	572,420	Dec. 1	597	141 142	77	1391
Greenfield, Harry, Kearney, N. J. Hat flanging and curling apparatus	564,193	July 21	1696	397	76	345
Greengard, Morris D., St. Louis, Mo. Shade-holder for incandescent-lamp sockets	569,556	Oct. 13	1450	342	77	259
Greenlaw, William P., Cambridge, Mass. Clothes-pounder	560,985	May 26	3002	691	75	1322
Greenleaf, Agnes S., Chicago, Ill. Skirt for riding-habits	568,943	Oct. 6	385	87	77	74
Greenleaf, Clements A., Indianapolis, Ind. Turn-table	563,480	July 7	417	97	76	80
Greenman, William J., Cortland, N. Y. Adjustable window-screen	565,266	Aug. 4	604	142	76	726
Greenough, Frank M. (See Greenough, Milon E. and F. M.)						
Greenough, George G., Fort McPherson, Ga. Apparatus for indicating distance and direction of remote objects	568,755	Oct. 6	75	17, 18	77	18
Greenough, Milon E. and F. M., Traverse City, Mich. Butter cutter and lifter	564,375	July 21	1998	469	76	391
Greenshield, William H., Flatonia, Tex. Pie-plate machine	567,232	Sept. 8	866	207	76	1457
Greenslade, John, Christchurch, New Zealand. Threshing and clover hulling and dressing machine	557,266	Mar. 31	3189	764 765 766	74	1795
Greenstein, Moris. (See Dinsmore, Robert, assignor.)						
Greenwald, Fredrick, New York, N. Y. Railway-switch	565,694	Aug. 18	1727	424	76	975
Greenwood Dyeing Machine Company. (See Blundell, John C., assignor.)						
Greenwood, William M. (See Bryan, James, assignor.)						
Greer, James B., Pittsburg, Pa. Compound for purifying water	561,884	June 9	1465		75	1671
Greer, James B., Pittsburg, Pa. Apparatus for purifying water	567,629	Sept. 15	1914	459	76	1666
Gregg, Charles W., assignor of one-half to S. H. Camp, Jackson, Mich. Lacing-stay for corsets	561,392	June 2	581	145	75	1481
Gregg, Charles W., Detroit, assignor, by mesne assignments, of one-half to S. H. Camp, Jackson, Mich. Corset	567,855	Sept. 15	1954	468	76	1674
Gregg, James. (See Stone, Ralston, Gregg, and Holmes.)						
Gregory, Charles A., assignor of one-half to D. B. Towsley, Montreal, Canada. Picking-rod	567,468	Sept. 8	1298	314	76	1534
Gregory, Charles E., Nashville, Tenn. Blackboard-rubber	570,797	Nov. 3	688	157	77	765

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Gregory, Charles E., Nashville, Tenn. Blackboard.....	572,004	Nov. 24	2796	659	77	1221
Gregory, Clark B., assignor to Gregory Furnace Company, Edgewater Park, N. J. Stove or range.....	558,801	Apr. 21	2261	546	75	457
Gregory, Erastus H., <i>et al.</i> (See Fuller, James M., assignor.).....						
Gregory, Fred L., Chicago, Ill. Secondary electric clock.....	555,090	Feb. 25	2299	{ 547 548 }	74	981
Gregory Furnace Company. (See Gregory, Clark B., assignor.).....						
Gregory, George H., Somerville, Mass. Apparatus for manufacturing gas.....	572,795	Dec. 8	1251	303	77	1535
Gregory, Giles A., <i>et al.</i> (See Gregory, Josiah G., assignor.).....						
Gregory, Hanson, Jr., Boston, Mass. Ore-crusher.....	558,803	Apr. 21	2263	548	75	458
Gregory, James C., assignor of one-half to E. Barnes, Pleasant Hill, Nebr. Wrench.....	556,049	Mar. 10	1003	239	74	1336
Gregory, James C., assignor of one-half to J. Barnes, Pleasant Hill, Nebr. Bicycle-lock.....	556,050	Mar. 10	1005	240	74	1336
Gregory, Joseph, assignor of two-thirds to B. H. Morrill, Seattle, Wash., and T. Appleton, New York, N. Y. Self-extinguishing lamp.....	553,959	Feb. 4	2288	64	74	557
Gregory, Joseph, assignor of two-thirds to T. Appleton, New York, N. Y., and B. H. Morrill, Seattle, Wash. Lamp-burner.....	564,991	Aug. 4	53	12	76	627
Gregory, Joseph, assignor of two-thirds to T. Appleton, New York, N. Y., and B. H. Morrill, Seattle, Wash. Lamp-burner.....	564,992	Aug. 4	55	13	76	627
Gregory, Josiah G., assignor to himself, W. I. and G. A. Gregory, Norwalk, Conn. Game apparatus.....	570,393	Oct. 27	2999	710	77	605
Gregory, Richard K., Greensborough, N. C. Bicycle-tire.....	565,451	Aug. 11	905	216	76	804
Gregory, Walter D., Newark, N. J. Bottle or like receptacle.....	564,483	July 21	2178	510	76	432
Gregory, Walter L., <i>et al.</i> (See Gregory, Josiah G., assignor.).....						
Gregory, William F., Buffalo, N. Y. Lubricator.....	570,549	Nov. 3	210	55	77	676
Gregson, Harold, Detroit, Mich. Game-board.....	568,611	Sept. 29	3322	796	76	1956
Gregson, John, and C. J. Murray, Fall River, assignors of one-half to G. Draper & Sons, Hopedale, Mass. Band-guide for spinning-spindles.....	565,680	Aug. 11	1347	327	76	887
Gregson, John, and C. J. Murray, Fall River, assignors to Whitin Machine Works, Whitinsville, Mass. Spinning and twisting frame.....	573,649	Dec. 22	2827	{ 667 668 }	77	1868
Greimann, William F., Garner, Iowa. Band-cutter and feeder.....	568,026	Sept. 22	2265	{ 548 549 }	76	1745
Gremmels, Henry W., Denver, Colo. Device for scaling fish.....	572,982	Dec. 15	1577	318	77	1617
Grenfell, Hubert H., London, England. Sighting apparatus for guns.....	565,742	Aug. 11	1459	{ 356 357 }	76	907
Grenier, Francois M. J., Providence, R. I. Stopping mechanism for looms.....	573,648	Dec. 22	2823	667	77	1868
Grenier, Joseph N., Worcester, Mass. Ash-sifter.....	558,170	Apr. 14	1171	286	75	239
Grenier, Siméon, St. Cesaire, Canada. Car-coupling.....	565,977	Aug. 18	1504	462	76	1011
Grenon, Henry, New Haven, Conn. Razor-stropping device.....	554,867	Feb. 18	1884	443	74	890
Greuter, Charles R., assignor to Buckeye Engine Company, Salem, Ohio. Furnace-grate.....	567,974	Sept. 22	2153	{ 518 519 }	76	1724
Grevell, William. (See Prange, Robert L., assignor.).....						
Greville-Williams, Rupert, Heywood, England. Telegraphy.....	568,675	Sept. 29	3437	823	76	1979
Gridley, Francis W. (See Weed, Harry D., assignor.).....						
Gridley, Henry H., Springfield, Ohio. Means for distributing fertilizers.....	563,921	July 14	1200	282	76	239
Gridley, Lorin L. (See Sherman, George C., assignor.).....						
Gridley, Wilmer D., Brooklyn, N. Y. Electric-lamp stand.....	563,922	July 14	1201	282	76	239
Grier, Garrett L., Milford, Del. Coat-hanger.....	568,901	Oct. 6	314	72	77	60
Grier, Harry G., Philadelphia, Pa., assignor to Grier-Young Electric Company, Camden, N. J. Electric gas-lighter.....	554,622	Feb. 11	1460	342	74	793
Grier, Matthew J., Philadelphia, Pa. Slack-adjuster for railway-car brakes.....	570,925	Nov. 10	919	213	77	838
Grier, William W. (See Mathewson and Grier.).....						
Grier, William W., Hulton, Pa. Apparatus for manufacturing doors, &c.....	570,992	Nov. 10	1028	{ 240 241 }	77	858
Grier-Young Electric Company. (See Grier, Harry G., assignor.).....						
Griess, James H. S., Pottstown, Pa. Grain-steamer.....	558,065	Apr. 14	1010	246	75	206
Grievess, Clarence J. (See Rosenberg, Albert, assignor.).....						
Griffen, Arthur B., Verona, N. J., assignor to Gilbert & Barker Manufacturing Company, Springfield, Mass. Device for charging hydrocarbon-gas generators.....	568,944	Oct. 6	388	88	77	74
Griffin, Dennis J. (See Brown and Griffin.).....						
Griffin, Ellsworth, Milwaukee, Wis. Perforating-machine.....	556,714	Mar. 17	2196	{ 513 514 }	74	1573
Griffin, Ira J., Sing Sing, N. Y. Motor.....	562,821	June 30	3088	748	75	2029
Griffin, James C., Allegheny, Pa. Shelf-bracket.....	571,519	Nov. 17	1934	461	77	1041
Griffin, James J., Thorndike, Mass. Pipe-cutter.....	565,267	Aug. 4	605	143	76	726
Griffin, John A. (See McCarthy and Griffin.).....						
Griffin, Richard A., Nashville, Tenn. Sash-fastener.....	565,743	Aug. 11	1461	357	76	907
Griffin, Thomas A., Chicago, Ill. Tie-plate.....	557,667	Apr. 7	263	63	75	50
Griffin, Thomas J., assignor of four-fifths to H. Riedel, H. Rembert, E. McCarthy, and N. Weeks, Galveston, Tex. Cotton-press.....	552,171	Apr. 14	1173	{ 286 287 }	75	239
Griffin, Thomas J., assignor of four-fifths to H. Riedel, H. Rembert, E. McCarthy, and N. Weeks, Galveston, Tex. Cotton-press.....	562,180	June 16	1979	479	75	1788
Griffin, William L. (See Benford, William H., assignor.).....						
Griffith, Alexander L., Columbus, Ohio. Seed and fertilizer distributor.....	556,671	Mar. 17	2131	497	74	1560
Griffith, Edward A. (See Ketchum, Oliver W., assignor.).....						
Griffith, George A., Valdosta, Ga. Steam-cooker.....	559,028	Apr. 28	2653	646	75	550
Griffith, Griffith. (See Baxter, George, assignor.).....						
Griffith, Jacob R., Kansas City, Mo. Baling-press.....	568,846	Oct. 6	220	52	77	43
Griffith, James H., Zanesville, Ohio. Spool-holder.....	567,743	Sept. 15	1758	421	76	1637
Griffith, Luther. (See Hart, Griffith, and Goodwin.).....						
Griffith, Morgan J., Wilkes-Barre, Pa. Circuit-breaker.....	559,220	Apr. 28	3155	762	75	643
Griffiths, James A., Philadelphia, Pa. Combined electric and gravity pleasure-railway.....	572,111	Dec. 1	26	7	77	1283
Griggs, Livonin C. (See Butts and Griggs.).....						
Griggs, Stephen A., Detroit, Mich. Movable support for expansion-flues.....	552,525	Jan. 7	39	11	74	10
Grigsby, Robert F., Calistoga, assignor of one-half to Fulton Engineering and Ship Building Works, San Francisco, Cal. Inlet-valve for air-compressors.....	567,092	Sept. 1	635	147	76	1403
Grigware, Edward N., assignor to himself, H. A. Weiberg, J. R. and F. R. Poss, Caseville, Mich. Railway-frog.....	554,120	Feb. 4	594	133	74	613
Grilli, Romeo, Charkoff, Russia. Bicycle attachment.....	563,957	July 14	1271	{ 297 298 }	76	251
Grilli, Romeo, Charkoff, Russia. Bicycle.....	563,958	July 14	1272	298	76	252
Grim, Simon, St. Phillips, Ind. Vehicle-coupling.....	564,484	July 21	2179	{ 510 511 }	76	432
Grim, William H., assignor of one-half to J. H. Haggerty, St. Louis, Mo. Combination-tool for bricklayers.....	558,383	Apr. 14	1536	376	75	307

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Grime George. (See Bolton, John T., assignor.)						
Grimes, George W., Bluffton, Ind. Steam-engine governor	560,709	May 26	2523	579	75	1231
Grimes, George W., Bluffton, Ind. Oil-well-pumping power	562,602	June 23	2698	652	75	1937
Grimes, George W., Bluffton, Ind. Pumping power	563,167	June 30	3716	889	75	2153
Grimes, George W., Bluffton, Ind. Pumping power	566,167	Aug. 18	2211	538 539 419 420	76 75	1069 361
Grimes, Walter, London, and C. C. Wakefield, Liverpool, England, assignors to Vacuum Oil Company, Rochester, N. Y. Lubricator	558,488	Apr. 21	1733			
Grimes, William B. (See Haywood, William, assignor.)						
Grimm, Gerhardt E., Camden, N. J. Core for ribbon-rolls	567,898	Sept. 15	2012	483	76	1687
Grimme, Johannes, Bochum, Germany. Driving mechanism	561,260	June 2	309	78	75	1428
Grimme, Reinhold, Leipsic, Germany. Diaphane	564,613	July 28	2412		76	492
Grimmett, John B., Corso, Mo. Elevator for harvesting-machines	555,481	Feb. 25	3002	715	74	1113
Grindle, George A., Prestwich, England. Electrode for secondary voltaic batteries	574,322	Dec. 29	4065	966	77	2109
Grinter, D. L., et al. (See McCawley, Joel A., assignor.)						
Gripman, Samuel. (See Gripman, Walter H., assignor.)						
Gripman, Walter H., Sioux Falls, S. D., assignor to himself and S. Gripman, Austin, Minn. Lathe attachment	568,612	Sept. 29	3324	796	76	1957
Gripp, Jacob, and J. F. Morrison, Pittsburg, Pa. Safety-plug for steam-boilers	559,847	May 12	906	201	75	867
Griscom, Walter, Philadelphia, Pa. Device for attaching elevator-buckets to belts	567,469	Sept. 8	1299	314	76	1534
Griscom, William W., Haverford, Pa. Hair-spring for watches	570,394	Oct. 27	3000	710	77	605
Grisell, Thomas S., assignor of one-half to M. A. Goff, Lathrop, Mo. Rotary exhibitor	560,789	May 26	2668	613	75	1258
Grist, Benjamin W., assignor to Pennsylvania Iron Works Company, Philadelphia, Pa. Pipe-hanger	569,755	Oct. 20	1842	437	77	375
Griswold, Frank B., Troy, N. Y. Wire bending and cutting machine	553,908	Feb. 4	189	40, 41	74	540
Griswold, John W., Troy, N. Y. Bale-tie	573,872	Dec. 29	3213	764	77	1954
Gritzner, Rudolf. (See Hunger, Oskar, assignor.)						
Grobet, Charles E., assignor of two-thirds to A. T. Docharty and J. Hatchwell, New York, N. Y. Transfer-ticket register	571,659	Nov. 17	2165	520 521	77	1082
Grodavent, Frank J., assignor of one-third to A. W. Horn, Denver, Colo. Bicycle crank-axle	566,906	Sept. 1	290	67	76	1338
Groden, Andrew E., and T. Christensen, Minneapolis, Minn. Saw-set	562,525	June 23	2545	619	75	1909
Grodzik, Henry, and F. C. Luetli, Fort Wayne, Ind. Music-holder	571,920	Nov. 24	2658	630	77	1194
Groeber, Otto A. (See Piatti, Paul J., assignor.)						
Groebl, Joseph A., New York, N. Y., assignor to Karsheedt Manufacturing Company, of New York. Jacquard mechanism	552,904	Jan. 14	784	190	74	160
Groebl, Joseph A., New York, N. Y., assignor to Karsheedt Manufacturing Company, of New York. Fabric-perforating mechanism for embroidering-machines	556,143	Mar. 10	1170	274 275	74	1366
Groebl, Joseph A., New York, N. Y., assignor to Karsheedt Manufacturing Company, of New York. Tension mechanism for embroidering-machines	556,144	Mar. 10	1174	275	74	1367
Groebl, Joseph A., assignor to Karsheedt Manufacturing Company, New York, N. Y. Embroidering-machine	556,145	Mar. 10	1177	275 276	74	1368
Groeschel, Anton. (See Mihsbach and Groeschel.)						
Groff, Franklin L., and F. D. Colvin, Baltimore, Md. Spring bed-bottom	556,923	Mar. 24	2571	605	74	1659
Groff, Van E., and J. K. Miller, Rowenna, Pa. Molder's screen	562,076	June 16	1812	437	75	1755
Grogan, Joseph M., Brockton, Mass. Heel-beading machine	560,136	May 12	1452	327	75	971
Grogan, William W., and J. H. Wax, assignors of one-half to R. F. McConnell, Gate City, Va. Hoof-trimmer	562,526	June 23	2546	619	75	1909
Groh, Samuel. (See Sherk, Rutter, and Groh.)						
Grohmann, Carl L. (See Davis and Grohmann.)						
Grollmann, Aron, Munich, Germany. Penholder	552,640	Jan. 7	231	64	74	45
Gron Dahl, Einar. (See Grondahl, Lars, assignor.)						
Gron Dahl, Lars, assignor to E. Grondahl, Red Wing, Minn. Washing-machine	563,373	July 7	237	53	76	48
Gronwald, Johann F. H., Berlin, Germany. Refrigerator	552,526	Jan. 7	40	11, 12	74	10
Groo, Mahlon, Grahamsville, N. Y. Bale-tie	562,462	June 23	2450	594	75	1891
Grooters, John H., Boyden, Iowa. Paring-knife	565,348	Aug. 4	729	174	76	751
Grosjean, William G. (See Hammer and Grosjean.)						
Gross, Albert H., et al. (See Jackson, William W., assignor.)						
Gross, August, assignor to Manhattan Brass Company, New York, N. Y. Extinguisher for lamp-burners	561,108	June 2	54	14	75	1377
Gross, Elmer S., assignor to H. W. Cushman, Ellsworth, Me., and E. B. Bowen, Newton, Mass. Heel-building machine	569,711	Oct. 20	1753	419	77	361
Gross, J. Ellsworth, et al. (See Deitz, Henry, assignor.)						
Gross, John, assignor to F. B. Tait, Decatur, Ill. Mechanical movement	563,227	June 30	3824	916	75	2173
Gross, John, and J. H. Moore, assignors to F. B. Tait, Decatur, Ill. Cultivator	563,168	June 30	3717	889 890	75	2153
Gross, Joseph M., Dublin, Pa. Fence	568,945	Oct. 6	389	88	77	75
Gross, Luelja Z., et al. (See Deitz, Henry, assignor.)						
Gross, Mannin, Burlington, Kans. Combination wire-stretcher and domestic scale	572,054	Nov. 24	2826	681	77	1238
Gross, William, Philadelphia, Pa. Combined puzzle purse and receptacle	572,796	Dec. 8	1253	303	77	1535
Grosscup, Manias G., Chicago, Ill. Track-rail for hay-carriers	562,294	June 16	2161	526	75	1821
Grosscup, Manias G., Chicago, Ill. Hay-carrier	566,681	Aug. 25	2095	756	76	1253
Grosse, Charles E., and T. A. Walther, said Grosse assignor to Illinois Malleable Iron Company, Chicago, Ill. Pump	555,214	Feb. 25	3511	592 593	74	1022
Grosselin, Nicolas H., Sedan, France, assignor to C. Heap, Rochdale, England. Gig-mill	557,991	Apr. 7	827	196	75	156
Grosselin, Nicolas H., Sedan, France, assignor to C. Heap, Rochdale, England. Cloth-napping machine	558,804	Apr. 21	2264	548	75	458
Grosselin, Nicolas H., Sedan, France, assignor to C. Heap, Rochdale, England. Cloth-napping machine	560,207	May 19	1584	359	75	1046
Grossman, George, Lancaster, Pa. Stock-car	560,790	May 26	2609	614	75	1258
Grossmann, Gottfried, Dortmund, Germany. Machine for cleaning wire-gauze cylinders of safety-lamps	559,171	Apr. 28	2950	713	75	606
Grossman, Lorenz S., assignor to Berner-Mayer Company, Cleveland, Ohio. Faucet-coupling	565,452	Aug. 11	906	216	76	804
Grossman, Lorenz S., assignor to Berner-Mayer Company, Cleveland, Ohio. Apparatus for pumping liquids by fluid-pressure	565,615	Aug. 11	1224	295	76	862
Grossmann, Louis, Vienna, Austria-Hungary. Fastening for doors or windows	563,855	July 14	1073	253	76	216
Grosvenor, Wallace, Casselton, N. D. Transportation system	569,280	Oct. 13	966	231 232 659 660	77	200 1221
Grote, Ferdinand, Evansville, Ind. Sectional boiler	572,005	Nov. 24	2798		77	1221
Grothe, William, Cleveland, Ohio. Pedal for bicycles or velocipedes	563,595	July 14	1274	299	76	252
Grothjan, Fanny C., Washington, D. C. Horse-detacher	560,710	May 26	2526	580	75	1232
Grotta, David. (See Weingarten and Grotta.)						
Groundman, Augustus, New York, N. Y. Pen	560,407	May 19	1953	446	75	1110

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Grout, John C., Brooklyn, N. Y. Bottle-stopper.....	572,006	Nov. 24	2799	660	77	1221
Groux, Henry A. (See Wiles and Groux.)						
Grove Manufacturing Company. (See Swaim and Clark, assignors.)						
Grove, Samuel B., and G. Emlogn, Muncie, Ind. Combined pair and reheating furnace....	568,847	Oct. 6	226	53	77	45
Grove, William H., Circleville, Ohio. Removable window-sash.....	566,168	Aug. 18	2212	539	76	1069
Grover & Company. (See Barker, Arthur, assignor.)						
Grover, Harry, Ollie, Iowa. Sliding gate.....	560,352	May 19	1857	423	75	1093
Grover, Henry M., assignor of one-half to J. H. Niles, Anoka, Minn. Car-seal.....	559,328	Apr. 28	3245	783	75	660
Grover, Henry M., assignor of one-half to J. H. Niles, Anoka, Minn. Potato-digger.....	572,511	Dec. 1	742	177	77	1418
Grover, Johnson M., Toronto, Canada. Washing-machine.....	571,475	Nov. 17	1852	441	77	1026
Groves, Samuel, Pittsburg, Pa. Molding-machine.....	573,783	Dec. 22	3035	{ 719 720 }	{ 77 77 }	{ 1908 1908 }
Grovestein, R. Currie. (See Long, Henry C., assignor.)						
Grow, Elisha P., et al. (See Hargrave, Edward C., assignor.)						
Grow, George N., Duke Centre, Pa. Oil-saving attachment.....	560,986	May 26	3003	692	75	1322
Grubb, William I., et al. (See Ziegler, John G., assignor.)						
Grubb, William I., Pottstown, Pa. Velocipede.....	559,281	Apr. 28	3156	763	75	643
Grube, Max, San Francisco, Cal. Machine for fixing threads in envelops.....	566,075	Aug. 18	2054	{ 500 501 }	{ 76 76 }	{ 1040 1040 }
Grube, Max, San Francisco, Cal. Machine for fixing threads in envelops. (Reissue).....	11,577	Dec. 8	1500	359	77	1586
Gruber, Louis A., Pittsburg, Pa. Antifriction-packing.....	567,233	Sept. 8	869	208	76	1457
Grubinski, Jan, Warsaw, Russia. Steam-generator.....	571,562	Nov. 17	2010	478	77	1054
Grubinski, Jan, Warsaw, Russia. Feed-pump.....	573,085	Dec. 15	1760	423	77	1652
Gruendel, George, Chicago, Ill. Nailing-machine.....	555,572	Mar. 3	147	35, 36	74	1157
Grueninger, Carl F., et al. (See Williams, Hubbard D. B., assignor.)						
Gruhlke, Augustus C., Waterloo, and W. F. Kessler, Auburn, Ind.; said Gruhlke assignor to said Kessler. Cigar-lighter.....	562,395	June 23	2333	568	75	1869
Gruhlkey, Daniel, assignor of one-half to W. H. Gruhlkey, Marseilles, Ill. Railway-crossing.....	572,702	Dec. 8	1082	263	77	1504
Gruhlkey, William H. (See Gruhlkey, Daniel, assignor.)						
Grumbacher, J., et al. (See Layton, Edward L., assignor.)						
Grundy, William S. (See Lever and Grundy.)						
Grunow, William, Jr., assignor to Z. Goodsell, Bridgeport, Conn. Car-fender.....	560,029	May 12	1250	280	75	932
Grunow, William, Jr., assignor of one-half to Z. Goodsell, Bridgeport, Conn. Electric railway.....	565,453	Aug. 11	908	216	76	804
Grunow, William, Jr., assignor to Z. Goodsell, Bridgeport, Conn. Rail-scraper.....	565,454	Aug. 11	910	217	76	805
Grunow, William, Jr., assignor to Z. Goodsell, Bridgeport, Conn. Fender for cars.....	566,394	Aug. 25	2616	639	76	1162
Grunow, William, Jr., assignor of one-half to Z. Goodsell, Bridgeport, Conn. Trolley and trolley-support for electric cars.....	567,975	Sept. 22	2157	{ 519 520 }	{ 76 76 }	{ 1725 1725 }
Grunow, William, Jr., assignor to Z. Goodsell, Bridgeport, Conn. Snow-plow, sweeper, scraper, and sprinkler for car-tracks.....	573,511	Dec. 22	2553	{ 605 606 }	{ 77 77 }	{ 1815 1815 }
Grutting, Theodore, St. Paul, Minn. Electrical connection.....	561,951	June 9	1587	384	75	1695
Grutting, Theodore, St. Paul, Minn. Electric heater.....	563,715	July 7	806	193	76	151
Grüttner, Hermann, Berlin, Germany. Pneumatic cycle-tire.....	562,723	June 23	2901	703	75	1976
Gual y S. Juan, Alejandro, Havana, Cuba. Photographic camera.....	557,801	Apr. 7	503	121	75	95
Guarino, Domenico, New York, N. Y. Car-fender.....	560,030	May 12	1252	281	75	932
Guarino, Domenico, New York, N. Y. Car-fender.....	572,984	Dec. 15	1580	379	77	1617
Gubelman, Frederick J., Jersey City, N. J. Automatically opening or closing air-valve.....	567,093	Sept. 1	637	148	76	1403
Gubelmann, William S., Buffalo, N. Y. Wheel-hub.....	559,486	May 5	238	53	75	728
Guehna, Engelbert, Sheboygan, Wis. Scholar's companion.....	567,342	Sept. 8	1091	262	76	1496
Guérard, Pierre E., assignor of one-half to N. Mathieu, Montreal, Canada. Hose-coupling.....	571,361	Nov. 17	1663	394	77	991
Guernsey, Samuel B., Corona, N. Y., assignor of one-half to W. F. Hobbs, Bridgeport, Conn. Hand-rake.....	563,923	July 14	1203	282	76	240
Guerrant, Cornelius W., Danville, Va. Tobacco-packing machine.....	565,349	Aug. 4	730	{ 174 175 }	{ 76 76 }	{ 752 752 }
Guerrant, George M., Danville, Va. Machine for applying stamps.....	555,644	Mar. 3	260	65, 66	74	1180
Guerlin, Lewis H., Mokenco, Ill. Automatic bicycle-brake.....	561,885	June 9	1465	354	75	1672
Guest, John H., Boston, Mass. Electric motor.....	554,365	Feb. 11	1009	234	74	707
Guest, John H., Boston, Mass. Electric railway.....	560,031	May 12	1254	{ 281 282 }	{ 75 75 }	{ 932 932 }
Guest, Theodore M., Moravia, N. Y. Wire-stretcher.....	563,481	July 7	422	97	76	81
Guethler, Maximilian, assignor of one-half to J. B. Adt, Baltimore, Md. Pitching apparatus.....	573,818	Dec. 22	3098	{ 736 737 }	{ 77 77 }	{ 1919 1919 }
Guett, Monroe, assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch.....	561,581	June 9	934	223	75	1572
Guffey, Wesley S., et al. (See Crawford, William W., assignor.)						
Gugler, Henry. (See Small and Biggar, assignors.)						
Guhl, Albert F., Rowenna, Pa. Car-coupling.....	569,639	Oct. 20	1615	380	77	336
Guhl, Albert F., Landisville, Pa. Car-coupling.....	570,171	Oct. 27	2552	606	77	523
Guider, Michael. (See Keane and Guider.)						
Guilbert, John M., Philadelphia, Pa. Safety-pin.....	563,272	July 7	66	17	76	14
Guild, George, assignor to Cambridge City Punch, Shear, and Roll Company, Cambridge City, Ind. Shearing-machine.....	569,281	Oct. 13	971	{ 232 233 }	{ 77 77 }	{ 201 201 }
Guild, Hiram A., Knoxville, Pa. Reel.....	569,128	Oct. 6	699	163	77	133
Guiler, James, Jr., Boston, assignor of one-half to O. B. Stillman, Natick, Mass. Conveyer.....	561,582	June 9	936	224	75	1572
Guilleaume, Max, Mülheim-on-the-Rhine, Germany. Insulated electric cable.....	568,756	Oct. 6	81	18	77	18
Guilleaume, Theodore, Mülheim-on-the-Rhine, Germany. Electric cable.....	554,263	Feb. 11	835	191	74	674
Guilleaume, Theodore, Mülheim-on-the-Rhine, Germany. Means for insulating electric conductors.....	563,273	July 7	67	17	76	14
Guilleaume, Theodore, Mülheim-on-the-Rhine, Germany. Electric cable.....	563,274	July 7	68	17	76	14
Guilleaume, Theodore, Mülheim-on-the-Rhine, Germany. Means for insulating electric conductors.....	571,760	Nov. 24	2367	565	77	1140
Guillemet, François L., San Francisco, Cal., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Air-brake.....	571,115	Nov. 10	1260	{ 292 293 }	{ 77 77 }	{ 900 900 }
Guillemet, François L., San Francisco, Cal., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Air-brake.....	571,116	Nov. 10	1262	293	77	901
Guimarin, William B., Atlanta, Ga. Stop and waste valve.....	565,205	Aug. 4	472	113	76	704
Guintier, John L., et al. (See Grassler, William F., assignor.)						
Guterman Bros. (See Teuber and Odenheimer, assignors.)						
Gulbrandsen, Otto, Syracuse, N. Y. Conveying-machine.....	553,403	Jan. 21	1650	395	74	337
Gülcher, Robert J., Charlottenburg, Germany. Secondary battery.....	562,396	June 23	2334	569	75	1869
Guldin, Olaf N., Fort Wayne, Ind. Valve mechanism for water-gas apparatus.....	567,709	Sept. 15	1701	408	76	1625
Gulich, Ashley J., Clearfield, Pa. Mold for casting knitting-machine cylinders.....	560,711	May 26	2527	580	75	1232

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Gulich, Ashley J., Clearfield, Pa. Circular-knitting machine	560,712	May 26	2529	581	75	1232
Gulliford, George L., Bement, Ill. Electric-light-cord adjuster	571,761	Nov. 24	2369	565	77	1140
Gulline, Henry L., Victoria, Canada. Inflating device	559,848	May 12	906	201	75	867
Gullmann, Christopher, New York, N. Y. Valve	556,312	Mar. 10	1510	351	74	1428
Gully, P. F., <i>et al.</i> (See Dean, John R., assignor.)						
Gumb, Lewis D. (See Carlson, Gustaf H., assignor.)						
Guminski, Joseph, Philadelphia, Pa. Lunch-companion	557,668	Apr. 7	264	64	75	50
Gump, Joseph R., Milan, Mich. Checkrein-hook	565,268	Aug. 4	606	143	76	727
Gumphert, George A., assignor of one-half to G. W. H. Fawkes, Philadelphia, Pa. Vise ..	561,663	June 9	1068	258	75	1597
Gundersen, Gilbert S., Dayton, Ohio. Corn-husking and fodder-cutting machine	554,061	Feb. 4	465	{ 104 105 }	74	590
Gundersen, Gilbert S., Middletown, Ohio. Corn-husking machine	554,264	Feb. 11	837	192	74	674
Gunderson, Gustav H., Chicago, Ill. Bicycle-lock	565,537	Aug. 11	1087	261	76	837
Gunerman, Anthony, Hoboken, and G. Schacht, Jersey City, N. J. Combing-machine ..	554,265	Feb. 11	839	192	74	675
Gunn, Leonard, London, England. Venetian blind	563,169	June 30	3719	{ 890 891 }	75	2153
Gunn, Leonard, assignor to H. Joyce, London, England. Apparatus for containing and applying gum, paste, &c.	564,614	July 28	2412	569	76	492
Gunning, Thomas, Pittsburg, Pa. Combined water heater and purifier	555,155	Feb. 25	2409	571	74	1003
Gunning, Thomas, Pittsburg, Pa. Steam-boiler	571,660	Nov. 17	2167	521	77	1083
Gunston, Byron M., assignor to T. Kingsford, Oswego, N. Y. Box-cover machine	567,094	Sept. 1	638	{ 148 149 }	76	1403
Gunter, Ples M., Cherry Lake, Fla. Lifting-jack	555,091	Feb. 25	2306	548	74	983
Gunther, Emil, Racine, Wis. Hame and hame-fastener	556,924	Mar. 24	2572	605	74	1660
Gunther, Fredrick, Kewanee, Ill. Check-row corn-planter	570,474	Nov. 3	61	15	77	649
Gunther, George P. A., Schwenksville, Pa. Jewelry	569,100	Oct. 6	658	152	77	126
Gunther, George P. A., Schwenksville, Pa. Cuff-button	569,495	Oct. 13	1331	313	77	267
Gunther, Reinhold E. (See Willcock, Stephen, assignor.)						
Guntton, Robert, Jr., Evansville, Ind. Painting apparatus	558,805	Apr. 21	2266	549	75	458
Gurd, William J., London, Canada. Automatic lighter for gas-stoves	555,765	Mar. 3	466	111	74	1214
Gurganus, James D., Whistler, Ala. Lifting-jack	557,579	Apr. 7	97	24	75	20
Gurley, Frank, High Point, N. C. Show-case	569,455	Oct. 13	1263	297	77	255
Gurley, George W. (See Wicks, Lars T., assignor.)						
Gurley, W. Morgan, <i>et al.</i> (See Cunningham, Andrew O., assignor.)						
Gurnee, Isaac Q., Butler, N. J. Syringe	572,506	Dec. 1	731	174	77	1417
Gury, John B., St. Louis, Mo. Machine for cutting lenses	554,677	Feb. 18	1556	367	74	827
Gus V. Brecht Butchers Supply Company. (See Schraudner, Frederick, assignor.)						
Gustafson, Andrew W. (See Oberg and Gustafson.)						
Gustave, George, assignor of one-half to E. S. Joseph, Los Angeles, Cal. High-explosive projectile	574,061	Dec. 29	3560	850	77	2018
Gustine, John S., Philadelphia, Pa. Point-shoe for piles	563,228	June 30	3826	916	75	2173
Gutenkunst, William, Milwaukee, Wis. Shredding device for corn-huskers and feed-cut- ters	564,747	July 28	2643	628	76	535
Gutenkunst, William, Milwaukee, Wis. Feed-cutting and corn-husking machine	566,310	Aug. 25	2445	{ 599 600 }	76	1130
Guthrie, James T., Leesburg, Ohio. Fence	557,669	Apr. 7	265	64	75	50
Guthrie, Rozell D., York, N. Y. Oil-dispensing apparatus	565,538	Aug. 11	1088	262	76	837
Guthrie, W. A. (See Henry, John R., assignor.)						
Gütling, Urban, Würzburg, Germany. Cutting device for sewing-machines	561,312	June 2	439	108	75	1455
Gutmann, Alfred, Ottensen, Germany. Sand-blast and apparatus employed in operating by sand-blasts	573,180	Dec. 15	1923	{ 461 462 }	77	1683
Gutmann, Ludwig, Chicago, Ill. Electric motor and motor-generator	559,380	May 5	54	12	75	691
Gutmann, Ludwig, Chicago, Ill. Changing frequency of periodic currents	566,076	Aug. 18	2058	501	76	1041
Gutra Percha and Rubber Manufacturing Company. (See Horner, Andrew L., assignor.)						
Guttenberg, Frederick, Brooklyn, N. Y. Apparatus for raising sunken vessels	567,744	Sept. 15	1759	422	76	1637
Guttenborn, Nicholas J., Pittsburg, Pa. Cuspidor	574,148	Dec. 29	3718	886	77	2046
Gutzkow, Frederick, San Francisco, Cal. Refining copper silver bullion	572,342	Dec. 1	447		77	1364
Guy, Clement T., Moline, Ill. Dish-cleaner	553,612	Jan. 28	2021	478	74	422
Guy, Hiram A., Wood River, Nebr. Band-cutter and feeder	562,724	June 23	2902	704	75	1976
Guye, Charles E. (See Naville and Guye.)						
Guye, Philippe A. (See Naville and Guye.)						
Gayser, Frank C., assignor to Vulcan Brass Company, Cleveland, Ohio. Hydraulic air- compressor	560,987	May 26	3004	692	75	1322
H. C. White Company. (See White, Hawley C., assignor.)						
H. H. Babcock Company. (See Davis, Francis G., assignor.)						
H. S. Robinson & Company. (See Sleeper, George W., assignor.)						
H. W. Butterworth & Sons Company. (See Ainsworth, Edwin, assignor.)						
H. W. Butterworth & Sons Company. (See Butterworth, Harry W., assignor.)						
H. W. Butterworth & Sons Company. (See Hunter, Rudolph M., assignor.)						
H. W. Butterworth & Sons Company. (See Mackinney, William C., assignor.)						
H. W. Butterworth & Sons Company. (See McLean, Andrew, assignor.)						
H. W. Butterworth & Sons Company. (See Weichelt, Charles, assignor.)						
H. W. Johns Manufacturing Company. (See Meek, John E., assignor.)						
H. W. Johns Manufacturing Company. (See Meek and Powers, assignors.)						
H. W. Johns Manufacturing Company. (See Stone, William G., assignor.)						
H. W. Johns Manufacturing Company. (See Thompson, Mark S., assignor.)						
Haag, Adam W., Fleetwood, Pa. Turbine water-wheel	557,802	Apr. 7	504	121	75	95
Haag, William L., assignor to Lansing Wheel-Barrow Company, Lansing, Mich. Sleigh ..	558,556	Apr. 21	1832	446	75	380
Haarmann & Reimer. (See Haarmann, Wilhelm, assignor.)						
Haarmann & Reimer. (See Tiemann, Johann C. W. F., assignor.)						
Haarmann, Wilhelm, Hörter, assignor to Haarmann & Reimer, Holzminden, Germany. Obtaining vanillin	560,494	May 19	2105		75	1138
Haarvig, Andrea J. (See Haarvig, Charles A. O., assignor.)						
Haarvig, Charles A. O., Chicago, Ill., assignor to A. J. Haarvig. Shipping-bill holder	560,353	May 19	1858	423	75	1093
Haas, Astor J., Philadelphia, Pa. Bicycle-brake	556,052	Mar. 10	1007	240	74	1336
Haas, Frederick. (See Steffens, James P., assignor.)						
Haas, Gustavus W., Los Angeles, Cal. Portable door or sash lock	565,978	Aug. 18	1905	462	76	1011
Haas, Harris. (See Penney, Urial E., assignor.)						
Haas, Harry L., assignor to Zucker & Levett & Loeb Company, New York, N. Y. Nickel- plating	564,748	July 28	2644	629	76	535
Haas, Louis. (See Lemieux, Louis, assignor.)						
Haas, Louis. (See Nehr, Herman F., assignor.)						
Haas, Philip J., assignor of one-half to H. H. Brimmer, Marengo, Iowa. Spray-nozzle ..	555,573	Mar. 3	151	36	74	1158
Haas, Samuel, New York, N. Y. Skirt	573,650	Dec. 22	2829	668	77	1868

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Haas, William, New York, N. Y. Pipe-cutter	570,751	Nov. 3	615	142	77	751
Haase, Paul, Chemnitz, Germany. Shears	571,160	Nov. 10	1333	311	77	914
Haberer, Charles H., assignor of one-half to W. W. Barnes, Louisville, Ky. Electric switch	572,929	Dec. 8	1475	354 355 356	77	1581
Haberkorn, Theodore H., and J. A. Haley, Fort Wayne, Ind. Valve mechanism for steam-engines	555,858	Mar. 3	619	148 149 150	74	1244
Haberthur, Benedikt, assignor of one-half to J. Mandel, Logansport, Ind. Electrically-operated railway-gate	556,183	Mar. 10	1248	291 292 293	74	1380
Hachenberg, Louis, New York, N. Y. Car-fender	553,524	Jan. 28	1868	442	74	394
Hachmuth, Henry C., Grand Rapids, Mich. Step-ladder	555,156	Feb. 25	2410	572	74	1004
Hacker, George J., Mokena, Ill. Lighting device	572,930	Dec. 8	1476	355	77	1581
Hacker, Heinrich, Berlin, Germany. Guide for gas-holders	555,215	Feb. 25	2512	593	74	1022
Hackett, John C., St. Louis, Mo. Lifting-jack	569,020	Oct. 6	527	121	77	100
Hackett, Jonathan W., Charlestown, Ind. Amalgamating apparatus	561,952	June 9	1558	384 385	75	1695
Hacking, Robert, and G. Brand, Nottingham, England. Electric lamp	559,282	Apr. 28	3157	763	75	644
Hacking, Robert, and G. Brand, Nottingham, England. Electrical indicating and cut-out apparatus for portable or other electric lamps	566,573	Aug. 25	2933	716	76	1222
Hackley, William H., North Salem, Ind. Adjustable ice attachment for horseshoes	565,455	Aug. 11	911	217	76	805
Hackney, Benjamin F. (See Pyle, William J., assignor.)						
Hackney, Clem, Joliet, assignor to Fox Solid Pressed Steel Company, Chicago, Ill. Pressed-steel end sill for cars	554,678	Feb. 18	1561	368	74	828
Hackney, Clem, Joliet, assignor to Fox Solid Pressed Steel Company, Chicago, Ill. Center plate for car-trucks	557,069	Mar. 24	2820	671	74	1709
Hackney, Clem, Joliet, assignor to Fox Solid Pressed Steel Company, Chicago, Ill. Body-bolster for cars	557,070	Mar. 24	2821	672	74	1709
Hackney, Clem, Joliet, assignor to Fox Solid Pressed Steel Company, Chicago, Ill. Bottom bar for brake-levers	557,122	Mar. 31	2912	696	74	1749
Hadaway, John B., Brockton, Mass. Stitch separating and indenting machine. (Reissue).	11,538	May 12	1536	347 348	75	985
Hadaway, John B., Brockton, Mass. Welt-beveling attachment for sole-sewing machines. (Reissue)	11,578	Dec. 8	1503	360	77	1586
Hadaway, William S., Jr., New York, N. Y. Electric heater	563,032	June 30	3471	835	75	2107
Hadaway, William S., Jr., New York, N. Y. Electrically-heated smoothing-surface	567,976	Sept. 22	2160	520	76	1726
Hadaway, William S., Jr., Boston, and W. E. Davis, Malden, Mass., assignors to Central Electric Heating Company, New York, N. Y. Heater	553,308	Jan. 21	1498	359	74	308
Hadaway, William S., Jr., New York, N. Y., and W. E. Davis, Malden, Mass., assignors to Central Electric Heating Company, New York, N. Y. Rheostat or electric heater	562,527	June 23	2548	619	75	1909
Hadden, Charles, Mazon, Ill. Sash-holder	557,803	Apr. 7	506	121	75	96
Hadden, Mortimer O., Dowagiac, Mich. Metallic fence	565,616	Aug. 11	1225	296	76	863
Haddock, Harry E. (See Schofield and Haddock.)						
Haddorf, Johann M. L. (See Höppner and Haddorf.)						
Hadfield, Frederick, Woonsocket, R. I. Umbrella	559,577	May 5	385	93	75	757
Hadfield, Frederick, Woonsocket, R. I. Machine for working rubber	571,226	Nov. 10	1434	335	77	933
Hadfield, Robert A., Sheffield, England. Toughening manganese-steel castings	572,891	Dec. 8	1392		77	1564
Hadfield, Samuel. (See Berwick and Hadfield.)						
Hadley, Artemus N., Indianapolis, Ind. Portable crane	561,313	June 2	440	109	75	1455
Hadley, Benjamin F. and H. F., Dundee, N. Y. Fluid-pressure regulator	557,811	Apr. 7	517	124	75	98
Hadley, Charles E., assignor to Indiana Bicycle Company, Indianapolis, Ind. Wheel and chain guard for bicycles	557,267	Mar. 31	3193	766	74	1796
Hadley, George W., assignor to Lamb Manufacturing Company, Chicopee, Mass. Sprocket-chain	558,277	Apr. 14	1357	331	75	274
Hadley, Halsey F. (See Hadley, Benjamin F. and H. F.)						
Hadley, Joshua A., assignor of one-half to T. C. Smith, Brazil, Ind. Fastening for pipe-sections	556,627	Mar. 17	2071	485	74	1549
Haeblerlin, Hermann, Cleveland, Ohio. Water-heater	554,679	Feb. 18	1562	368	74	828
Haeblerlin, Hermann, assignor to Horix Manufacturing Company, Cleveland, Ohio. Water-heater	570,128	Oct. 27	2477	587	77	507
Haentges, John G., Buffalo, N. Y. Crib for building piers, &c	554,680	Feb. 18	1564	368	74	829
Haentges, John G., Buffalo, N. Y. Means for utilizing currents of rivers, &c	554,681	Feb. 18	1565	368 369	74	829
Haerer, Frederick J., and C. L. Gikeleiter, Philadelphia, Pa. Commutator	567,745	Sept. 15	1760	422 423	76	1637
Haerer, Frederick J., and C. L. Gikeleiter, Philadelphia, Pa. Armature for dynamo-electric machines	567,746	Sept. 15	1764	423	76	1638
Haeske, Charles M., South Bend, Ind. Axle-skein	560,495	May 19	2106	481	75	1138
Haffermehl, John J., Newton, Mass. Attachment for ladders	556,464	Mar. 17	1797	417	74	1498
Hagaman, S. Wallace. (See Weidner, John A., assignor.)						
Hagelstein, Christ, Paint Rock, Tex. Bolt-cutter	562,181	June 16	1982	490	75	1788
Hagelstein, Christian H. T., Boston, Mass. Puzzle	553,648	Jan. 28	2086	491	74	433
Hagen, Arthur T., and D. M. Cooper, Rochester, N. Y. Starching-machine	554,266	Feb. 11	841	193	74	675
Hagen, Theodor, Tripoli, Iowa. Car-coupling	555,506	Mar. 3	36	9	74	1137
Hager, John F., Le Roy, N. Y., assignor to E. F. Shellabarger, De Kalb, Ill. Wire fence	565,744	Aug. 11	1462	357	76	907
Hager, Martin A., Esdaile, Wis. Pump attachment	560,791	May 26	2671	614	75	1259
Hager, Willard, Athol Centre, Mass. Display-rack	570,704	Nov. 3	534	124	77	737
Hagerty, Thomas F., San Francisco, Cal. Center-bit	567,977	Sept. 22	2162	520	76	1726
Hagerty, Thomas F., San Francisco, Cal., assignor to W. E. Hoyt, New York, N. Y. Sad-iron	556,537	Mar. 17	1934	451	74	1523
Hagerty, Timothy F., Woburn, Mass. Automatic alarm for postal chutes	563,033	June 30	3473	835	75	2107
Hagey, George W., assignor of one-half to J. B. Clapper, Martinsburg, Pa. Incubator	564,175	July 14	1668	389	76	326
Haggerty, James H. (See Grim, William H., assignor.)						
Haggerty, Patrick J. (See Campbell and Haggerty.)						
Hagmann, John G., La Crosse, Wis. Fire-extinguisher nozzle	562,295	June 16	2163	526	75	1821
Hahn, Frederick W., New York, N. Y. Cushioned horseshoe	569,009	Oct. 6	508	115	77	97
Hahn, Frederick W., New York, N. Y. Soft-tread horseshoe	572,602	Dec. 8	907	219	77	1470
Hahn, George. (See Sears, George H., assignor.)						
Haight, Frederick, Poughkeepsie, N. Y. Tube-cleaner	572,359	Dec. 1	482	113	77	1370
Haight, Levi A., Tyndall, S. D. Windmill	564,561	July 21	2319	545	76	456
Haight, William E., New Milford, Ill. Neck-yoke center	573,181	Dec. 15	1925	462	77	1683
Haiman, Elias, R. Huettich, and C. Bishop, assignors to Empire Plow Company, Cleveland, Ohio. Cultivator	571,307	Nov. 10	1576	375	77	961
Hain, Joseph. (See Braun, Lina, assignor.)						
Hain, Ralph B., assignor to Fox Machine Company, Grand Rapids, Mich. Wheel-chuck	560,354	May 19	1859	424	75	1093
Haines, Edward C., Woodstown, N. J. Machine for topping and wiping cans	568,676	Sept. 29	3443	824 825	76	1979

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Haines, James M., Cedar Rapids, Iowa. Top-board fastener for wagons	567,591	Sept. 15	1507	363	76	1588
Haines, John H. J., New York, N. Y., and A. B. Fernald, Jersey City, N. J. Electric-arc lamp	560,792	May 26	2672	614	75	1259
Hainsworth Minimum Company. (See Hainsworth, William, assignor.)						
Hainsworth, William, West Seattle, Wash. Rail-straightening device	553,237	Jan. 21	1360	331	74	284
Hainsworth, William, West Seattle, Wash. Ladle	555,317	Feb. 25	2702	633	74	1058
Hainsworth, William, West Seattle, assignor to Hainsworth Minimum Company, Seattle, Wash. Making steel ingots or other castings	558,384	Apr. 14	1537	376	75	307
Haish, Jacob, assignor to Haish Manufacturing Company, De Kalb, Ill. Wire fence	570,752	Nov. 3	616	142	77	751
Haish Manufacturing Company. (See Haish, Jacob, assignor.)						
Hakansson, Louis M., Mason City, Iowa. Wire-holder	562,528	June 23	2549	619	75	1910
Hake, George. (See Beckwith, David O., assignor.)						
Hakes, Hudson W., Millbury, Mass. Harness-frame for looms	570,926	Nov. 10	921	214	77	839
Hakins, George B., Norwood, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental disk-holder	574,031	Dec. 29	3505	837	77	2007
Halberstadt, Gustav L. (See Kohlmeier, Ingo E., assignor.)						
Halbert, James. (See Britton, William, assignor.)						
Haldeman, Benjamin F., Pittsburg, Pa. Vehicle running-gear	572,481	Dec. 1	686	164	77	1409
Haldeman, Ephraim A., Chicago, Ill. Device for automatically operating elevator-doors	561,164	June 2	160	41	75	1397
Hale, David O. (See Root, Reed, and Hale.)						
Hale, Edward E., et al. (See Martindale, Benjamin F., assignor.)						
Hale, Henry S., Philadelphia, Pa. Seat cushion and back	567,470	Sept. 8	1300	315	76	1534
Hale, Henry S., Philadelphia, Pa. Car-seat	572,654	Dec. 8	993	239	77	1487
Hale, Henry S., Philadelphia, Pa. Car-seat	572,655	Dec. 8	994	239	77	1487
Hale, John F. (See Hardesty, Hale, and Welch.)						
Hale & Kilburn Manufacturing Company. (See Applin, Joseph, assignor.)						
Hale, Orlando C., Cincinnati, Ohio. Machine for embossing cards	573,407	Dec. 15	2329	556	77	1776
Hale, Roswell W., West Bay City, Mich. Reciprocating scraper for band-saw wheels	571,876	Nov. 24	2566	608	77	1177
Hale, William R. (See Bourn and Hale.)						
Hales, Henry W., Ridgewood, N. J. Pencil sharpening, pointing, and cleansing device	557,670	Apr. 7	267	64	75	50
Haley, Andrew M., Sioux City, Iowa. Valve for hydraulic freight-elevators, &c	553,404	Jan. 21	1654	396	74	337
Haley, Andrew M., Sioux City, Iowa. Compound expansion steam-engine	560,496	May 19	2106	481	75	1138
Haley, Brinckle H., West Chester, Pa. Wire fence	570,090	Oct. 27	2419	573	77	497
Haley, C. B. (See Gallanore, Charles E., assignor.)						
Haley, James W., and D. H. Tuttle, New York, N. Y. Ball	563,170	June 30	3721	891	75	2154
Haley, Joseph A. (See Haberkorn and Haley.)						
Haley, Michael, assignor of one-half to E. Ryan, Chicago, Ill. Bumping-post	562,297	June 16	2166	527	75	1822
Haley, Patrick, Chicago, Ill. Insulating-support for rails of electric railways	563,482	July 7	422	98	76	81
Haley, William L., Cleburne, Tex. Churn	562,296	June 16	2165	526	75	1822
Halfpenny, James M., Swengel, assignor of one-half to W. E. Smith, Millmont, Pa. Rail-joint	565,895	Aug. 18	1728	424	76	975
Hall, Albert F., Boston, Mass. Steam-pump	567,978	Sept. 22	2163	520 521	76	1725
Hall & Brown Wood Working Machine Company. (See Judd, Edwin, assignor.)						
Hall, Charles H., Glidden, assignor of one-half to E. Besse, Butternut, Wis. Automatic whistle	572,112	Dec. 1	28	8	77	1283
Hall, Charles M., Oberlin, Ohio. Metallic alloy or compound and producing same	570,014	Oct. 27	2272		77	467
Hall, Daniel, Locust Valley, N. Y. Can-opener	562,822	June 30	3090	749	75	2029
Hall, David L. (See Ward, Charles E., assignor.)						
Hall, Edward A. (See Clarke, Harry, assignor.)						
Hall, Edward P., Urbana, Ill. Mandolin	567,028	Sept. 1	517	122	76	1380
Hall, Edward P. G. (See Joski and Hall.)						
Hall, Edward S., New York, N. Y. Brake for bicycles	554,419	Feb. 11	1107	258	74	726
Hall, Edward S., New York, N. Y. Device for actuating brakes	572,255	Dec. 1	284	68	77	1333
Hall, Edwin L., Philadelphia, Pa. Locomotive-headlight	564,068	July 14	1466	344	76	288
Hall, Elijah C., Braintree, Mass. Heater	570,993	Nov. 10	1030	241 242	77	859
Hall, Frank R., Boston, Mass. Composition of matter	571,117	Nov. 10	1264		77	901
Hall, Frederick J., and J. H. Espey, Elmira, N. Y. Automatic lighter for fire-engines	559,704	May 5	594	141	75	795
Hall, George. (See Burket, Marion T., assignor.)						
Hall, George W., Washington, D. C. Type-writing machine	564,749	July 28	2646	629 630	76	535
Hall, Harry, Satsuma Heights, Fla. Corn-planting machine	557,671	Apr. 7	268	64	75	50
Hall, Henry, Dongan Hills, N. Y. Sheet-delivery mechanism	560,215	May 19	1601	362	75	1050
Hall, Henry, Portsmouth, Ohio. Clock striking mechanism	571,615	Nov. 17	2096	503	77	1069
Hall, James T., Monticello, Ark. Invalid-bed	555,859	Mar. 3	622	149	74	1244
Hall, John S., assignor to F. P. Kohen, Allegheny, Pa. Device for holding and storing sad-irons	565,350	Aug. 4	732	175	76	752
Hall, Joseph, Leeds, England. Machine for treating hides, skins, or leather	559,976	May 12	1150	256	75	915
Hall, Joseph, Leeds, England. Machine for treating skins, leather, &c	561,583	June 9	937	224	75	1572
Hall, Joseph J., Los Angeles, Cal. Window	565,617	Aug. 11	1226	296	76	863
Hall, Lewis L., Bourne, Oreg. Wrench	573,651	Dec. 22	2830	668	77	1869
Hall, Lewis R., Medford, Mass. Ash-sieve	556,347	Mar. 17	1574	368	74	1456
Hall, Lynn, and A. Petzold, Philadelphia, Pa. Creeper for horseshoes	572,256	Dec. 1	287	69	77	1334
Hall, Martha E., Newmarket, Ind. Pattern or chart	573,408	Dec. 15	2332	557	77	1756
Hall, Mary E., assignor of one-half to H. H. Todd, New Haven, Conn. Corset	555,157	Feb. 25	2411	572	74	1004
Hall, Milan W., Yonkers, N. Y. Rotary pump	557,123	Mar. 31	2912	696 697	74	1750
Hall, Milan W., Plainfield, N. J., assignor to Otis Brothers & Company, New York, N. Y. Automatic relief-valve for electric pumps	562,463	June 23	2451	595	75	1891
Hall, Osborn R., Malden, Mass. Pipe-reamer	554,420	Feb. 11	1108	258	74	726
Hall, Robert F., Birmingham, England. Chain-gear case for cycles	553,461	Jan. 21	1748	416 417	74	355
Hall, Robert F., Birmingham, England. Drive-chain	554,181	Feb. 4	697	157	74	633
Hall, Robert F., Birmingham, England. Milling-machine	555,372	Feb. 25	2795	655	74	1075
Hall, Robert F., Moseley, England. Velocipede-pedal	558,557	Apr. 21	1834	446	75	381
Hall, Samuel M. (See Bostwick, George C., assignor.)						
Hall Signal Company. (See Buchanan, John P., assignor.)						
Hall, Thomas, Manchester, England. Velocipede	570,015	Oct. 27	2273	540	77	467
Hall, Watkin, Great Crosby, England. Apparatus for holding window-sashes	557,268	Mar. 31	3194	767	74	1796
Hall, Willard L., Spokane, Wash. Lifting-jack	570,550	Nov. 3	212	56	77	676
Hall, William A., Bellows Falls, Vt. Water-paint	567,592	Sept. 15	1509		76	1588
Hall, William H., assignor of one-half to T. M. Dukehart and J. T. Mason, R. Baltimore, Md. Automatic air-brake for railway-trains	574,062	Dec. 29	3562	850 851	77	2018

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Hall, William J., Chicago, Ill. Swing.....	565,165	Aug. 4	404	97	76	692
Hall, William J., and J. W. Casper, Sacramento, Cal. Drier.....	567,386	Sept. 8	1169	280	76	1509
Hall, Willis, Anding, Miss. Shipping-crate.....	568,137	Sept. 22	2477	{ 594 595 }	76	1784
Hall, Zachary T. (See Lockwood, James F., assignor.)						
Hall, Zachary T., Philadelphia, Pa. Frying-pan.....	559,172	Apr. 28	2951	713	75	606
Hallam, John. (See Adams, Sheffield, and Hallam.)						
Hallas, James G., Waterbury, Conn., assignor, by mesne assignments, to Welsbach Light Company, Gloucester City, N. J. Incandescent gas-burner.....	556,628	Mar. 17	2072	485	74	1549
Hallbauer, Louis, Meriden, Conn. Steam-boiler furnace.....	566,311	Aug. 25	2449	{ 600 601 }	76	1130
Hallenbeck, Joseph P., Mount Vernon, assignor of one-half to W. I. Kilpatrick, New York, N. Y. Driving mechanism for bicycles.....	555,242	Feb. 25	2560	602	74	1031
Hallenbeck, Matthew L. W., Thornton, Tex. Printing-press.....	557,381	Mar. 31	3389	{ 814 815 }	74	1835
Hallenbeck, Ovando G., New York, N. Y. Car-fender.....	556,845	Mar. 24	2434	572	74	1635
Haller, Nicholas S. (See Weaver and Haller.)						
Hallett, Hervey H., Rockland, Mass. Heater for attachment to oil or gas burners.....	569,377	Oct. 13	1140	272	77	234
Hallett, John H. (See Wyndham and Hallett.)						
Hallett, Samuel I., Aspen, Colo. Ore-sampler.....	566,169	Aug. 18	2213	539	76	1069
Halley, Walter C., Halley, Ark. Cattle-guard.....	571,616	Nov. 17	2098	503	77	1069
Hällgren, Carl A. V., Stockholm, Sweden. Machine for making spiral wire springs.....	562,529	June 23	2550	620	75	1910
Hallidie, Andrew S., San Francisco, Cal. Collecting and transporting earth, &c.....	558,645	Apr. 21	1986	482	75	407
Halling, Charles O., assignor of one-half to G. Amonsén, Minneapolis, Minn. Device for transporting trees.....	569,042	Oct. 6	561	129	77	107
Hallock, Ira P. (See Hallock, L. T. and I. P.)						
Hallock, Lee T., Danbury, Conn., and I. P. Hallock, Yonkers, N. Y. Round-paper-box machine.....	569,496	Oct. 13	1332	{ 313 314 }	77	267
Hallowell, Charles E., Philadelphia, Pa. Hat-fastener.....	574,149	Dec. 29	3719	886	77	2046
Hallowell, William H., Norristown, Pa. Hot-water heating system.....	566,077	Aug. 18	2060	502	76	1041
Hallowell, William H., Norristown, Pa. Hot-water heating system.....	567,593	Sept. 15	1510	363	76	1588
Hallqvist, Carl A., Brooklyn, N. Y. Fender for street-cars.....	559,029	Apr. 28	2654	{ 646 647 }	75	550
Hallstead, George M. (See Brooks, Hallstead, and Page.)						
Hallstrom, John G., Jamestown, N. Y. Attachment for woodworking-lathes.....	569,197	Oct. 13	823	{ 192 193 }	77	173
Hallwood, Henry S. (See McCormick, John H., assignor.)						
Halpin, Cornelius, assignor of one-half to F. W. Smith, Tarrytown, N. Y. Car-coupling.....	574,323	Dec. 29	4066	966	77	2109
Halpine, Nicholas J., U. S. Navy. Electric-railway system.....	560,988	May 26	3006	693	75	1323
Hals, Edward P., New York, N. Y. Preserving milk or cream.....	564,069	July 14	1468	.....	76	288
Halsey, Francis A., San Rafael, Cal. Smokeless powder.....	568,902	Oct. 6	315	.....	77	61
Halsey, Francis A., San Rafael, Cal. Smokeless powder.....	570,705	Nov. 3	535	.....	77	738
Halsey, Frederick A., New York, N. Y., and A. Doney, Pen Argyl, Pa., assignors to Rand Drill Company, Mount Pleasant, N. Y. Bar-channeling machine.....	564,993	Aug. 4	56	13, 14	76	628
Halstead, Charles B., Humboldt, Kans. Hat.....	567,234	Sept. 8	870	208	76	1457
Halstead, George M., et al. (See Brooks, Charles B., assignor.)						
Halsted, Cornelia L., Troy, N. Y. Steam cooking device.....	562,959	June 30	3361	809	75	2085
Halteman, John W., et al. (See Schroyer, Stephen, assignor.)						
Halvorsen, Halbert B., assignor of one-half to W. K. Millholland, Chicago, Ill. Steam-engine.....	573,216	Dec. 15	1988	478	77	1695
Ham, Albert W., Troy, N. Y. Button-setting machine.....	569,579	Oct. 13	1501	{ 354 355 }	77	299
Ham, Albert W., Lansingburg, assignor to Trojan Button Fastener Company, Incorporated, Troy, N. Y. Sand-box for cars.....	556,885	Mar. 24	2508	591	74	1649
Ham, Edwin W. (See Plummer, Frank O., assignor.)						
Ham, Henry C., assignor to Rude Brothers Manufacturing Company, Liberty, Ind. Grain-drill.....	553,405	Jan. 21	1656	396	74	338
Ham, Henry C., assignor to Rude Brothers Manufacturing Company, Liberty, Ind. Shovel-standard for cultivators.....	554,928	Feb. 18	1990	470	74	909
Ham, Henry C., assignor to Rude Brothers Manufacturing Company, Liberty, Ind. Cultivator.....	556,746	Mar. 24	2262	529	74	1602
Ham, Henry C., assignor to Rude Brothers Manufacturing Company, Liberty, Ind. Grain-drill.....	564,424	July 21	2087	{ 487 488 }	76	415
Ham, Henry C., assignor to Rude Brothers Manufacturing Company, Liberty, Ind. Corn-drill.....	564,425	July 21	2088	488	76	415
Ham, Miron J. (See Seward, Mille, and Ham.)						
Hamann, Carl H. O., Bergedorf, Germany. Driving mechanism for propulsion-wheels.....	564,194	July 21	1699	397	76	345
Hamann, Richard W., and J. Voegelé, St. Louis, Mo. Smoke-consumer.....	563,423	July 7	423	98	76	82
Hamblin, Stephen M., Taunton, and E. S. Damon, Plymouth, Mass. Tension device for loom-shuttles.....	556,970	Mar. 24	2649	622	74	1675
Hambruch, Heinrich F., Hamburg, assignor to Deutsche Automaten-Gesellschaft, Stollwerck & Co., Cologne, Germany. Mechanical musical instrument.....	555,159	Feb. 25	2414	572	74	1004
Hamburger, Leon, et al. (See Darley, John W., Jr., assignor.)						
Hamburger, Philip, et al. (See Darley, John W., Jr., assignor.)						
Hamer, Joannes F. X., Leenwarden, Netherlands. Dental plate and making.....	555,158	Feb. 25	2412	572	74	1004
Hamerschlag, Arthur A., New York, N. Y. Igniting device for gas or petroleum engines.....	561,886	June 9	1468	{ 354 355 }	75	1672
Hamerschlag, Arthur A., assignor to Cathoscope Electrical Company, New York, N. Y. Roentgen-ray-exhibition apparatus.....	568,720	Sept. 29	3512	{ 841 842 }	76	1993
Hamilton, Alexander. (See Butcher, James M., assignor.)						
Hamilton, Charles F., Champaign, Ill. Cash-register.....	557,124	Mar. 31	2915	697	74	1750
Hamilton, Charles L. (See Beck and Hamilton.)						
Hamilton, Charles P. (See Stapp and Hamilton.)						
Hamilton, Christopher H., New York, N. Y., assignor to F. R. Biedler, Baltimore, Md. Car-coupling.....	571,520	Nov. 17	1935	462	77	1041
Hamilton, Edward H., Poona, India. Tooth-brush.....	569,870	Oct. 20	2022	482	77	409
Hamilton, Fitz J. (See Craudall, Frederick D., assignor.)						
Hamilton, Frederick, Cranford, N. J. Sliding-drawer support.....	573,461	Dec. 22	2473	586	77	1801
Hamilton, Frederick R., and C. H. Moore, Jr., Bath, N. Y. Belt-fastener.....	568,248	Oct. 6	227	53	77	45
Hamilton, Henry M., Millstone, N. J. Washing-machine.....	563,484	July 7	425	98	76	82
Hamilton, Isaac N., assignor of one-half to J. H. Carpenter, Reading, Pa. Shafting-hanger.....	573,182	Dec. 15	1925	462	77	1683
Hamilton, James A., Indianapolis, Ind. Game-table.....	573,972	Dec. 29	3409	817	77	1990
Hamilton, James E., Two Rivers, Wis. Printer's case.....	566,312	Aug. 25	2453	601	76	1131

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Hamilton, James J. H., <i>et al.</i> (See Phillips, Thomas E., assignor.)						
Hamilton, John A., New York, N. Y. Fastening and stop for gas-cocks, &c.	559,173	Apr. 28	2952	713	75	606
Hamilton, John R., assignor of one-half to H. E. Knight, New York, N. Y. Elevator.	561,223	June 2	355	62, 63	75	1417
Hamilton, Jonathan J., Neepawa, Canada. Means for changing motion	553,582	Jan. 28	1970	467	74	413
Hamilton, Jonathan J., Neepawa, Canada. Means for changing motion	555,507	Mar. 3	38	9	74	1137
Hamilton, Joseph B., Springfield, Mass. Magnetic separator	571,362	Nov. 17	1664	394 395	77	992
Hamilton, Joseph B. Springfield, Mass. Magnetic separator	572,162	Dec. 1	120	28, 29	77	1300
Hamilton, Mark K., New York, N. Y. Bottle-collar	571,088	Nov. 10	1203	282	77	890
Hamilton, Ralph S., Providence, R. I. Tea-strainer	572,482	Dec. 1	687	164	77	1410
Hamilton, Samuel, Wilson, Mo. Clover-seed harvester	569,043	Oct. 6	563	130	77	107
Hamilton Tube Company. (See Peters, George W., assignor.)						
Hamilton, William M., Connersville, Ind. Machine for securing tires to wheels	563,856	July 14	1074	253	76	216
Hamilton, William R., <i>et al.</i> (See Hann, Francis S., assignor.)						
Hamilton, William T., Allegheny, Pa. Automatic sanding apparatus for railway-cars	567,856	Sept. 15	1955	468 469	76	1675
Hamley, Henry R. (See Simon, William, Jr., assignor.)						
Hamlin, Thomas W., Sarawak, Canada. Machine for pointing skewers	570,630	Nov. 3	394	93, 94	77	711
Hamm, Phillip, and J. W. Pertz, Elwood, Ind. Bottle-washer	565,456	Aug. 11	912	217	76	805
Hamm, William S. (See Teal and Hamm.)						
Hamm, William S., Chicago, Ill. Signal-lantern	553,462	Jan. 21	1749	417	74	355
Hamm, William S., Chicago, Ill., assignor, by mesne assignments, to United States Head Light Company, of New York. Headlight	553,406	Jan. 21	1657	396	74	338
Hamm, William S., Newton, assignor to Seaver Process Lasting Company, Boston, Mass. Stop-motion	564,015	July 14	1365	318	76	269
Hamm, William S., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Bicycle-lamp	564,882	July 28	2863	686	76	575
Hamm, William S., Newton, assignor to A. Seaver, Boston, Mass. Lasting-machine	570,220	Oct. 27	2641	626	77	539
Hamm, William S., Newton, assignor to A. Seaver, Boston, Mass. Sewing-machine for lasting boots or shoes	570,252	Oct. 27	2703	643	77	550
Hamm, William S., Newton, and A. W. Eaton, assignors to Staple Fastening Machine Company, Boston, Mass. Machine for making and driving metallic fastenings	571,227	Nov. 10	1436	335 336	77	933
Hammel, Riglander & Co. (See Blank, Bernard H., assignor.)						
Hammer, Emil G., Brooklyn, N. Y. Self-winding electric clock	566,313	Aug. 25	2454	601 602	76	1131
Hammer, Frederick, assignor to Seneca Falls Manufacturing Company, Seneca Falls, N. Y. Tool-support	555,092	Feb. 25	2307	548	74	963
Hammer, Mary, and W. G. Grosjean, Milwaukee, Wis. Steam-bath apparatus	568,303	Sept. 22	2753	662	76	1837
Hammers, Morgan J., and C. R. Clark, Champaign, Ill. T-square	557,804	Apr. 7	507	122	75	96
Hammett, James W., Eureka, W. Va. Portable wire fence	564,516	July 21	2226	522 523	76	441
Hammon, Edwin W., Davisville, Cal. Engine	553,613	Jan. 28	2022	478	74	422
Hammon, Edwin W., Davisville, Cal. Device for converting motion	554,062	Feb. 4	467	165	74	590
Hammond, Edward. (See Della Torre, Frank, assignor.)						
Hammond, Eugene G. (See Reinert, John F., assignor.)						
Hammond, Grant, Mulberry, Cal. Solder for soldering aluminium	572,200	Dec. 1	181	.....	77	1313
Hammond, Leander W., North Plainfield, N. J. Cover for culinary utensils	561,584	June 9	939	224	75	1573
Hammond, Theodore C., Newark, N. J. Car-fender	557,201	Mar. 31	3073	737	74	1775
Hammond, Wilberforce B., Boston, Mass., assignor to Higley Sawing and Drilling Machine Company, New York, N. Y. Machine for cutting railway-rails	555,696	Mar. 3	360	84	74	1194
Hammond, William W. (See Keeler, William H., assignor.)						
Hammonds, Julia T., Lebanon, Ill. Apparatus for holding yarn-skeins	572,985	Dec. 15	1581	379	77	1617
Hampsher, Wallace S., Mount Vernon, N. Y. Dampening device for press-copying	556,265	Mar. 10	1400	328	74	1409
Hampson, Joseph, Fall River, Mass. Loom-harness for weaving leno goods	572,007	Nov. 24	2800	660	77	1222
Hampton, Norman S., and C. H. Randolph, Jonesville, Mich. Combined hay and stock rack	566,574	Aug. 25	2934	716 717	76	1222
Hamrick, Harry M. (See Williams and Hamrick.)						
Hamrick, Thomas J. (See Ferrell and Hamrick.)						
Hanable, Charles A., assignor of one-half to W. L. Taylor, Indianapolis, Ind. Hydrocarbon-burner	569,412	Oct. 13	1204	283	77	244
Hanahan, James L., assignor of one-half to A. M. Withers, Columbia, S. C. Ice-shaver	555,002	Feb. 18	2125	505	74	934
Hance, James A., assignor of one-half to A. B. Lail, St. Louis, Mo. Trolley	570,475	Nov. 3	63	15	77	650
Hancock, Clinton C. (See Rehfuess, George, J. G., and M. O. assignors.)						
Hancock, George M., assignor to Hancock Pulley Company, Portland, Oreg. Split pulley	560,159	May 12	1489	337	75	977
Hancock, Joseph. (See Bisel and Hancock.)						
Hancock, Llewellyn. (See Coates and Hancock.)						
Hancock, Milton T., Washington, D. C. Harness	568,304	Sept. 22	2754	662	76	1837
Hancock Pulley Company. (See Hancock, George M., assignor.)						
Hancock, William S. (See Perry and Hancock.)						
Hand, Aaron A., <i>et al.</i> (See Rider, Herbert E., assignor.)						
Hand, Abijah S., Seeley, N. J. Vehicle running-gear	553,489	Jan. 21	1799	428	74	364
Hand, Townson, assignor of two-fifths to M. Alexander and J. C. Cope, North Vernon, Ind. Nut-lock	571,661	Nov. 17	2169	521	77	1083
Hand, William, <i>et al.</i> (See Rockwell, Herbert O., assignor.)						
Hand, William J., <i>et al.</i> (See Phillips, Thomas E., assignor.)						
Hand, William M., St. Louis, Mo., assignor to General Electric Company, of New York. Brush-holder for dynamos	569,824	Oct. 20	1950	464	77	395
Handlan, Alexander H., St. Louis, Mo. Signal-lamp	557,382	Mar. 31	3396	815	74	1636
Handloser, Thomas V., New York, N. Y. Military bicycle	553,614	Jan. 28	2023	479	74	422
Handloser, Thomas V., New York, N. Y. Tricycle	553,615	Jan. 28	2024	479	74	422
Handloser, Thomas V., New York, N. Y. Velocipede-hub	553,616	Jan. 28	2025	479	74	423
Handloser, Thomas V., New York, N. Y. Brake for bicycles	557,805	Apr. 7	508	122	75	96
Handly, John W. (See Burdick, John C., assignor.)						
Handly, Thomas F., Allegheny, Pa. Envelop	557,202	Mar. 31	3077	737	74	1776
Handly, Thomas F., Allegheny, Pa. Fire-extinguisher	564,615	July 28	2414	569	76	492
Handshy, Henry M., San Antonio, Tex. Coffin	555,807	Mar. 3	529	128	74	1226
Handshy, Henry M., San Antonio, Tex. Trolley-wire crossing	567,133	Sept. 8	719	168	76	1430
Handy, John R., Jameson, Mo. Barometer-inkstand	572,483	Dec. 1	688	164 165	77	1410
Handy, William W., Baltimore, Md. Electric governor for water-wheels	571,363	Nov. 17	1666	395	77	992
Haner, Clark R., Grand Gorge, N. Y. Mucilage-bottle	562,134	June 16	1900	460	75	1772
Haney, Sterling P., Ione, Oreg. Harness-buckle	556,538	Mar. 17	1935	451	74	1524
Hanford, Orin A., Salem, Mass. Gluing-press for wooden wheel-rims	565,166	Aug. 4	405	97, 98	76	692
Hanger, James E., Washington, D. C., assignor to Hanger Shampoo Bowl Company, of West Virginia. Shampooing attachment for barbers' chairs	555,860	Mar. 3	624	150	74	1245

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Hanger Shampoo Bowl Company. (See Hanger, James E., assignor.)						
Hanke, Gustav, G. W. Cox, and J. B. Wilson, Adair, Iowa. Dropping and marking attachment for corn-planters.	560,581	May 19	2247	515	75	1163
Hankey, Anthony, Boston, Mass., assignor of one-half to J. X. Rogers, Philadelphia, Pa. Street-sweeper.	553,753	Jan. 28	2261	536	74	466
Hankin, John, Rutherford, N. J. Collar for shafting	553,525	Jan. 28	1870	443	74	395
Hankin, John, Rutherford, N. J. Elevator-boot	563,171	June 30	3722	891	75	2154
Hanks, Frank, <i>et al.</i> (See Darling, Ernest T., assignor.)						
Hanley, Michael. (See Marable, Benjamin F., assignor.)						
Hanlon, John S., New Haven, Conn. Folding square	561,109	June 2	55	15	75	1377
Hanlon, William, Cohasset, Mass. Conjuring apparatus	554,682	Feb. 18	1567	369	74	830
Hammer, Henry H., Liverpool, England. Coin-assorting apparatus	566,453	Aug. 25	2758	669 671	76	1188
Hann, Francis S., York, assignor to W. R. Hamilton, Indiana, Pa., and O. W. Crampton, Hampstead, Md. Broom or brush bridle	570,927	Nov. 10	923	214	77	839
Hann, Thomas, <i>et al.</i> (See Price, John, assignor.)						
Hann, Thomas, and W. Bromley, assignors to J. Price, London, England. Velocipede or other vehicle.	563,589	July 7	599	139	76	112
Hanna, Ernest R., and H. M. Householder, Concordia, Kans. Pump	557,812	Apr. 7	518	125	75	98
Hanna, Eubius E. (See Herbert, Wesley F., assignor.)						
Hanna, George A., and F. E. Fairman; said Fairman assignor to T. A. Swanson, Whittemore, Iowa. Weighing and registering machine	572,986	Dec. 15	1582	379 380	77	1618
Hanna, James O., assignor of one-half to W. W. Matthews, Amity, Ark. Grappling device for carpenters.	572,751	Dec. 8	1179	283	77	1521
Hanna, Roswell J. (See Shone and Hanna.)						
Hanna, Thomas E., <i>et al.</i> (See Cook, Marion P., assignor.)						
Hanna, William H., Petersburg, Ill. Sewing-machine needle	568,946	Oct. 6	390	88	77	75
Hanna, William H., Petersburg, Ill. Needle-throat for sewing-machines	573,327	Dec. 15	2198	526	77	1732
Hanna, William H., and A. H. Morrow, South Omaha, Nebr.; said Morrow assignor to said Hanna. Axle-lubricator	557,580	Apr. 7	99	24	75	20
Hanna, William P. (See MacKenzie, Sloane, and Hanna.)						
Hannah, John C., R. J., and J. W. Stockton, Cal. Potato-digger	569,787	Oct. 20	1894	449	77	384
Hannah, Joseph W. (See Hannah, John C., R. J., and J. W.)						
Hannah, Rupert J. (See Hannah, John C., R. J., and J. W.)						
Hannan, Harriet E. (See Hannan, William H., assignor.)						
Hannan, James, Muscatine, Iowa. Toy cannon and target	569,282	Oct. 13	974	233	77	201
Hannan, William H., assignor to H. E. Hannan, Syracuse, N. Y. Coal-stoker	567,710	Sept. 15	1702	409	76	1626
Hannum, Charles U., Philadelphia, Pa. Sash-cord holder	570,631	Nov. 3	396	94	77	711
Hano, Philip, New York, N. Y. Manifold memorandum book or pad	568,305	Sept. 22	2755	663	76	1837
Hanover, Major E., Evansville, Wis. Saw-frame	562,464	June 23	2453	595	75	1892
Hansbarger, Harvey, Fittsburg, Ohio. Fence	554,683	Feb. 18	1569	369	74	830
Hanscom, Adelbert P. (See Spencer, Alvah C., assignor.)						
Hanse, William F., Brooklyn, N. Y. Nippers	556,053	Mar. 10	1008	240	74	1336
Hansel, Charles, Easton, Pa. Railway-signal	563,924	July 14	1204	283	76	240
Hansel, Charles, Easton, Pa. Detector-bar clip	566,078	Aug. 18	2060	502	76	1041
Hansen, Christian D. A. (See Storch, Vilhelm, assignor.)						
Hansen, Hans K., Alta, Iowa. Coin-controlled apparatus for testing striking powers	574,324	Dec. 29	4068	967	77	2110
Hansen, John S., assignor to American Postal Machines Company, Boston, Mass. Mail-marking machine	572,085	Nov. 24	2964	697 698	77	1252
Hansen, John S., Medford, Mass., assignor to American Postal Machines Company, Portland, Me. Mail-marking machine	573,652	Dec. 22	2831	669	77	1869
Hansen, John S., Medford, Mass., assignor to American Postal Machines Company, Portland, Me. Mail-marking machine	573,653	Dec. 22	2833	669	77	1869
Hansen, Theodore C., Chicago, Ill. Gluing-clamp	553,063	Jan. 14	1045	254	74	210
Hanshue, William E., assignor of three-fourths to E. E. Brownson and E. S. Rankin, Kalamazoo, Mich. Electric railway	562,894	June 30	3223	779	75	2055
Hanson, Alexander, Chicago, Ill. Sifter	567,711	Sept. 15	1704	409	76	1626
Hanson, Augustus, Chicago, Ill. Insulated crossover for trolley-wires	567,784	Sept. 15	1824	437 438	76	1649
Hanson, Augustus, and J. R. Chapman, Chicago, Ill. Insulated support for contact-rails	556,971	Mar. 24	2650	622	74	1675
Hanson, Charles A., <i>et al.</i> (See Reed, Henry A., assignor.)						
Hanson, Charles A., <i>et al.</i> (See Tisdale, Charles D., assignor.)						
Hanson, Miles A., Port Washington, Wis. Revolving chair	561,165	June 2	163	41	75	1398
Hanson, Paul, Chicago, Ill. Grain-binding harvester	558,946	Apr. 29	2517	610 611	75	523
Hanson, Paul, Chicago, Ill. Sheaf-carrier for harvesters	563,229	June 30	3826	917	75	2173
Hanson, Paul, assignor to Deering Harvester Company, Chicago, Ill. Bundle-carrier for harvesters	573,086	Dec. 15	1761	423	77	1653
Hanson, Richard. (See Parkinson, Childers, Hanson, and Wakefield.)						
Hanson, Sarah P., Fremont, Ohio. Heat-deflector	562,530	June 23	2551	620	75	1910
Hanson, Walter T., Macon, Ga. Mechanical movement	563,590	July 7	600	139	76	112
Hanstine, Harry S., assignor of one-half to J. F. Thompson, Pittsburg, Pa. Adjusting tool-holder	571,900	Nov. 24	2624	621	77	1188
Happersett, Harry C., Urbana, Ohio. Puzzle	558,066	Apr. 14	1011	246	75	207
Happoldt, Henry P., <i>et al.</i> (See Hickey, Thomas W., assignor.)						
Haran, Patrick F., Scranton, Pa. Safety-guard for street-cars	556,672	Mar. 17	2131	497	74	1560
Harbaugh, Howard E., assignor to Chicago-Rockford Hosiery Company, Kenosha, Wis. Mechanical movement	552,527	Jan. 7	41	12	74	11
Harbaugh, Howard E., assignor to Chicago-Rockford Hosiery Company, Kenosha, Wis. Transferring attachment for knitting-machines	552,528	Jan. 7	42	12, 13	74	11
Harbaugh, Howard E., assignor to Chicago-Rockford Hosiery Company, Kenosha, Wis. Transferring device for knitting-machines	555,161	Feb. 25	2420	574	74	1005
Harbaugh, Howard E., assignor to Chicago-Rockford Hosiery Company, Kenosha, Wis. Reinforcing-thread mechanism for knitting-machines	563,230	June 30	3823	917	75	2174
Harbaugh, Howard E., assignor to Chicago-Rockford Hosiery Company, Kenosha, Wis. Reinforcing-thread mechanism for knitting-machines	563,231	June 30	3831	918	75	2174
Harbaugh, Howard E., assignor to Chicago-Rockford Hosiery Company, Kenosha, Wis. Circular-knitting machine	564,176	July 14	1669	390	76	326
Harbaugh, Levi, <i>et al.</i> (See Dale, Will W., assignor.)						
Harbaugh, Samuel V., assignor to J. W. Bowen, Baltimore, Md. Making soap powder	569,154	Oct. 6	756		77	143
Harbaugh, Samuel V., and G. Rudiger, Sr., assignors of one-third to H. P. Stewart, Baltimore, Md. Sounding wheeled toy	573,217	Dec. 15	1991	478	77	1695
Harchaw, Samuel. (See Bierlev, Henry A., assignor.)						
Hard, Charles H., assignor to Hard Manufacturing Company, Oneida, N. Y. Wire-coiler	554,929	Feb. 18	1991	471	74	909

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Hard Manufacturing Company. (See Hard, Charles H., assignor.)						
Hardeman, Thomas S. (See Gare, Thomas, assignor.)						
Harden, Edward W., assignor to F. C. Weir, Cincinnati, Ohio. Compound engine	553,463	Jan. 21	1751	{ 417 418 }	74	356
Harden, Manroe H., Jamesport, Mo. Suspensory bandage	567,343	Sept. 8	1092	263	76	1496
Harden, William H., assignor of one-half to O. F. Goodwin, Quitman, Ga. Animal-trap	562,603	June 23	2699	653	75	1937
Harder, William T., Carlisle, Pa. Variable-speed gearing for velocipedes	564,616	July 28	2415	{ 569 570 }	76	493
Harder, William T., Carlisle, Pa. Device for varying the speed of velocipedes	564,617	July 28	2419	{ 570 571 }	76	494
Hardesty, James W., Montgomery, Ala. Inflatable mattress	569,712	Oct. 20	1764	419	77	362
Hardesty, Robert G., J. F. Hale, and R. J. Welch, assignors to said Welch, J. N. Gardner, and C. West, West Plains, Mo. Car-coupling	565,114	Aug. 4	290	69	76	670
Hardie, James S., El Dorado, Kans. Metallic car-truck	569,044	Oct. 6	564	130	77	107
Hardie, Robert, Rome, assignor to General Compressed Air Company, New York, N. Y. Fluid-pressure regulator	553,851	Feb. 4	71	14	74	517
Hardie, Robert, Brooklyn, assignor to H. C. Elliot, New York, N. Y. Cigarette-cutting device for continuous-cigarette machines	558,646	Apr. 21	1987	482	75	408
Hardie, Robert, Brooklyn, assignor to H. C. Elliott, New York, N. Y. Tape or belt for continuous-cigarette machines	567,644	Sept. 15	1596	384	76	1605
Hardie, Robert, Rome, assignor to General Compressed Air Company, New York, N. Y. Tramway-locomotive	562,604	June 23	2702	{ 653 654 }	75	1938
Hardin, E. W., et al. (See Nevill, William B., assignor.)						
Hardin, Isaac L. (See Kelso, Norman C., assignor.)						
Hardin, Thomas W., Grant, Iowa. Windlass	570,206	Oct. 27	2616	621	77	534
Harding, Horace J., and B. A. Osborn, Albion, N. Y. Printer's chase	570,928	Nov. 10	924	214	77	839
Harding, Thomas, assignor of one-half to J. H. Henry, San José, Cal. Wave-power-transmitting apparatus	559,798	May 12	777	186	75	843
Harding, Ura E. (See Bennett, Charles A., assignor.)						
Hardman, Asa S., Leesburg, Fla. Tie-plate and spike-lock	562,960	June 30	3362	809	75	2085
Hardman, George H., Essex, Conn. Wood-turning machine	563,034	June 30	3474	835	75	2108
Hardman, James, Jr., Belleville, N. J. Bicycle-tire valve	558,606	Apr. 21	1925	468	75	396
Hardman, Leonard N., and A. Turley, Orleans, Ind. Harvester	562,358	June 16	2277	553	75	1842
Hardt, Franz X., Vilsbiburg, Germany. Appliance for protecting cigars in broached cases	562,465	June 23	2454	595	75	1892
Hardwick, Harry, Philadelphia, Pa. Jacquard card-punching machine	553,783	Jan. 28	2303	546	74	475
Hardwick, Robert. (See Elder, James A., assignor.)						
Hardwick, William, Erie, Pa. Vertical boiler	555,766	Mar. 3	467	111	74	1214
Hardy, Charles S., San Diego, Cal. Refrigerator-car	565,351	Aug. 4	734	{ 175 176 }	76	752
Hardy, Clement A., assignor to C. A. Keating, Dallas, Tex. Rotary-disk plow	556,972	Mar. 24	2652	623	74	1676
Hardy, Emery E., Kearney, N. J. Adjustable handle-bar for velocipedes	558,489	Apr. 21	1735	420	75	361
Hardy, Francis A., Evanston, Ill. Opera-glasses	572,540	Dec. 8	787	188	77	1443
Hardy, James F., New York, N. Y. Tension for sewing-machines	560,793	May 26	2674	614	75	1260
Hardy, James F., New York, N. Y. Sewing-machine	571,318	Nov. 10	1593	378	77	964
Hardy, Lawrence P., South Bend, Ind. Credit coupon-book	554,182	Feb. 4	698	157	74	633
Hare, George F., Limerick, Ireland. Mucilage-bottle	572,603	Dec. 8	908	220	77	1470
Hare, John T., Fresno, Cal. Hay-loader	570,753	Nov. 3	617	{ 142 143 }	77	751
Hargrave, Edward C., Hinckley, N. Y. Apparatus for placing logs upon carriages of slabber gang-saws	557,813	Apr. 7	519	125	75	98
Hargrave, Edward C., assignor to E. P. Grow and J. E. Thomas, Bay City, Mich. Water-distilling apparatus	552,835	Jan. 7	631	155	74	110
Hargreaves, James, Farnworth-in-Widnes, and T. Bird, Cressington, England. Apparatus for electrolysis of chlorids, &c.	571,591	Nov. 17	2057	492	77	1062
Hargrove, Byron L., Bottom, Tex. Printing attachment for letter-boxes	570,994	Nov. 10	1034	242	77	860
Harilaos, Raoul. (See Richard, Jules, assignor.)						
Harilaos, Raoul, Paris, France. Stereoscope for advertising purposes	558,684	Apr. 21	2065	500	75	421
Harkness, Charles A., Providence, R. I. Elevator-controlling device. (Reissue)	11,520	Jan. 7	724	{ 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	74	135
Harkness, Charles A., Providence, R. I. Elevator	553,064	Jan. 14	1046	{ 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	74	210
Harkness, Charles A., Providence, R. I. Elevator	553,157	Jan. 14	1215	295	74	243
Harkness, Charles A., Providence, R. I. Elevator-controlling device	553,807	Jan. 28	2347	559	74	482
Harkness, Charles A., Providence, R. I. Elevator	567,095	Sept. 1	640	{ 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 2		

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Harmon, James E. (See Harmon and Boyd.)						
Harmon Manufacturing Company. (See Mitchell, John E., assignor.)						
Harmon, William Z., Harmonsburg, Pa. Twine-holder for binding corn, grain, &c	565,167	Aug. 4	408	98	76	692
Harmsen, Wilhelm G. C. (See Ljungström, Lars G., assignor.)						
Harnsen, Edwin C., Carbondale, Pa. Device for moving grain	563,172	June 30	3723	892	75	2154
Harned, Harrison W., Ionia, Iowa. Attachment for thrashing-machines	557,673	Apr. 7	270	65	75	51
Harnischfeger, Henry, <i>et al.</i> (See Theurer and Mueller, assignors.)						
Harnsberger, Audley E., and E. Wright, Staunton, Va. Type-writing machine	573,654	Dec. 22	2836	{ 669 670 }	77	1870
Harper, Abraham T., Portland, Me. Last-block fastener	566,515	Aug. 25	2855	694	76	1207
Harper, Alfred E., Chicago, Ill. Grate	558,067	Apr. 14	1012	{ 246 247 }	75	207
Harper, Daniel W., Birmingham, Ala. Means for insuring registration of street-car fenders.	561,314	June 2	441	109	75	1455
Harper, David, Neelyville, Ill. Band-cutter and feeder	571,161	Nov. 10	1334	311	77	915
Harper, Henry D., Sr. (See Ashford, Thomas B., assignor.)						
Harper, James, Cannonsburg, Pa. Car-coupling	557,383	Mar. 31	3397	815	74	1836
Harper, James M. (See Ballard and Harper.)						
Harper, James R., assignor of one-third to G. M. Thompson, Schochoh, Ky. Wheat-drill.	559,283	Apr. 28	3158	763	75	644
Harper, John A. D., and D. R. Smith, Magnolia, Ark. Churn	572,484	Dec. 1	690	165	77	1410
Harpold, Adam, assignor of three-fourths to W. A. Choate, Colton, and F. A. Jones, Los Angeles, Cal. Fruit-pitting machine	553,649	Jan. 28	2087	492	74	433
Harpole, Andrew J. (See Green, John G., assignor.)						
Harrah, Philip J., Bloomfield, Ind. Combined vise and drill	566,170	Aug. 18	2215	539	76	1070
Harrell, Andrew J., New Orleans, La. Nut-lock	570,551	Nov. 3	213	56	77	677
Harrell Bureau-Desk Company. (See Harrell, John H., assignor.)						
Harrell, John H., Baltimore, Md., assignor to Harrell Bureau-Desk Company, New York, N. Y. Bureau and desk	569,825	Oct. 20	1951	464	77	395
Harrelson, William H., Kansas City, Mo. Bracing and lashing riprap and jetty work	554,777	Feb. 18	1727	405	74	859
				{ 861 862 863 864 }	77	2026
Harrel, Henry, Allegheny, Pa. Woodworking-machine	574,088	Dec. 29	3604	376	75	308
Harrigan, Richard D., Leadville, Colo. Telephone-bell	558,385	Apr. 14	1540	1886	74	890
Harriman, Frank H., Hartford, Conn. Electrically-operated railway-track switch	554,868	Feb. 18	1886	444	74	890
Harrington, Andrew J., Jr., and E. S. Warnock, Magnolia, Ark. Cultivator	565,979	Aug. 18	1907	463	76	1011
Harrington, George W., assignor to Lead Lined Iron Pipe Company, Wakefield, Mass. Compound pipe	562,359	June 16	2278	553	75	1843
Harrington, Gilbert H., and W. A. Richardson, assignors to Harrington & Richardson Arms Company, Worcester, Mass. Ejector mechanism for revolvers	557,814	Apr. 7	520	125	75	99
Harrington & Richardson Arms Company. (See Harrington and Richardson, assignors.)						
Harrington & Richardson Arms Company. (See Richardson, William A., assignor.)						
Harrington, Walter E., Philadelphia, Pa., assignor to Cutter Electrical and Manufacturing Company, Camden, N. J. Fuse cut-out	560,128	May 12	1439	324	75	968
Harris, Ala. (See Tuckey and Harris.)						
Harris, Alexander B. B., Bristol, Tenn. Railway-tie plate	556,348	Mar. 17	1575	368	74	1456
Harris, Alexander B. B., Bristol, Tenn. Railway-tie plate	560,497	May 19	2108	482	75	1138
Harris, Anthony, Middlesborough, England. Feed-water filter	556,008	Mar. 10	916	{ 218 219 }	74	1320
Harris, Benjamin S. H. (See Harris, William A. and B. S. H.)						
Harris, Bet H., and G. A. Corbin, Denver, Colo. Spacing-rule and lining-gage	573,973	Dec. 29	3411	818	77	1990
Harris, Cassius F. (See Harvey and Harris.)						
Harris, Charles B., <i>et al.</i> (See Geisler, Joseph F., assignor.)						
Harris, Charles R., Williamsport, Pa. Buckle	560,498	May 19	2109	482	75	1139
Harris, Charles R., Williamsport, Pa. Suspender-buckle	562,531	June 23	2552	620	75	1910
Harris, Charles R., and W. Freeman, Williamsport, Pa. Cast-off for suspenders	554,930	Feb. 18	1992	471	74	910
Harris, Charles R., and W. Freeman, Williamsport, Pa. Cast-off for suspenders	555,004	Feb. 18	2128	506	74	935
Harris, Clayton S., assignor to Willis & Clements, Philadelphia, Pa. Photographic mount.	567,134	Sept. 8	720	168	76	1430
Harris, Edward P., Chester, assignor to J. G. Gray, assignee, Philadelphia, Pa. Gas-generator	568,903	Oct. 6	315	73	77	61
Harris, Edwin, Chicago, Ill. Hand printing device	558,490	Apr. 21	1737	421	75	361
Harris, Elijah T., and A. S. Reed, Chicago, Ill. Vacuum-cup bicycle-pedal	554,686	Feb. 18	1572	370	74	831
Harris, Elmer S., Haverhill, Mass. Inseam-trimming machine	556,146	Mar. 10	1180	276	74	1368
Harris, George T. (See Capitaine, Emil, assignor.)						
Harris, George W. (See Harris, William R., assignor.)						
Harris, Helen S., administratrix. (See Harris, William R.)						
Harris, Henry, and F. Bernardin, Antwerp, Ohio. Danger-signal	573,218	Dec. 15	1992	479	77	1696
Harris, Henry F. (See Muslar, Nelson, assignor.)						
Harris, Henry W., Detroit, Mich. Door-clasp	570,017	Oct. 27	2276	541	77	468
Harris, Henry W., deceased, Raleigh, N. C. R. J. Harris, administrator. Automatic block-signal and anticollision appliance for railways	563,374	July 7	238	54	76	48
Harris, Hiram. (See Springsteen and Harris.)						
Harris, Hiram S., Hitchcock, Tex. Transplanter	565,745	Aug. 11	1463	357	76	908
Harris, Hugh O., Brooklyn, assignor to Seamless Structural Tube Company, New York, N. Y. Machine for rolling metal tubes	573,873	Dec. 29	3214	764	77	1954
Harris, Joseph A. (See Fongère, Angus, assignor.)						
Harris, Malana A., Akron, Ohio. Blackboard-ruler	561,585	June 9	939	225	75	1573
Harris, Nathaniel, Ellsworth, Kans. Sash-holder	559,999	May 12	1194	265	75	922
Harris, Richard J., administrator. (See Harris, Henry W.)						
Harris, Samuel, assignor to Steel Motor Company, Cleveland, Ohio. Electric street-car motor.	558,491	Apr. 21	1733	421	75	362
Harris, Samuel, assignor to Steel Motor Company, Johnstown, Pa. Drum for electric controllers	573,874	Dec. 29	3215	765	77	1955
Harris, Samuel J., Millville, Mass. Car-fender	572,752	Dec. 8	1180	284	77	1522
Harris, William A. and B. S. H., Greenville, S. C. Air-brake coupling	571,662	Nov. 17	2170	522	77	1083
Harris, William C., <i>et al.</i> (See Barr, John H., assignor.)						
Harris, William E., Niles, Ohio. Treating and annealing sheet metal	559,705	May 5	595	141	75	795
Harris, William E., Niles, Ohio. Annealing-furnace	566,682	Aug. 25	3097	{ 756 757 }	76	1253
Harris, William H., assignor to W. A. Milliken, Washington, D. C. Door for furnaces	566,756	Sept. 1	43	11	76	1288
Harris, William R., deceased; H. S. Harris, administratrix, assignor to G. W. Harris, Lowell, Mass. Machine for winding yarn	573,268	Dec. 15	2074	497	77	1709
				{ 176 177 178 }	75	821
Harris, William T., assignor to C. E. Slocum, Defiance, Ohio. Corn-harvester	559,777	May 5	734	192	74	1298
Harrison, Albert D., and C. O. Lucas, Greenville, Ohio. Mail-box	555,948	Mar. 10	798			

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Harrison, Arthur. (See Davies and Harrison.)						
Harrison, Dewees W., Reynoldston, Pa. Annealing-box	560,316	May 19	1793	408	75	1082
Harrison, Edward M., Chicago, Ill. Telephone-switch	571,162	Nov. 10	1336	312	77	915
Harrison, Edward M. and W. S., Chicago, Ill. Magneto-telephone	571,190	Nov. 10	1377	322	77	923
Harrison, Frederick, Owen Sound, Canada. Machine for pointing butchers' skewers	568,677	Sept. 29	3447	825	76	1980
Harrison, George L. (See Browne and Harrison.)						
Harrison, Harris K., Pomme de Terre, Minn. Potato-planter	568,442	Sept. 29	2988	{ 718 719 }	{ 76	1895
Harrison, Isaac, and A. M. Kilberg; said Harrison assignor to B. C. Levi, Scranton, Pa. Automatic opening or closing device for gas-burners	553,238	Jan. 21	1362	331	74	284
Harrison, James R., assignor to Selby, Starr & Co., Peoria, Ill. Combined grain elevator and conveyer	565,076	Aug. 4	200	50	76	654
Harrison, John C., Bowness, England. Slot-drilling machine	570,091	Oct. 27	2420	{ 573 574 }	{ 77	497
Harrison, John S., assignor of one-third to W. L. Gignilliat, Savannah, Ga. Bottle	554,869	Feb. 18	1887	444	74	891
Harrison, Moses C., Pittsburg, Pa. Pump	554,684	Feb. 18	1570	369	74	831
Harrison Safety Boiler Works. (See Cochran, David, assignor.)						
Harrison, Thomas, <i>et al.</i> (See Shanks, John S. D., assignor.)						
Harrison, William, Horsforth, England. Nut-lock	565,077	Aug. 4	203	50	76	655
Harrison, William F., Pittsburg, assignor to Homestead Manufacturing Company, Limited, Homestead, Pa. Valve	561,989	June 16	1645	401	75	1726
Harrison, William P. (See Gray, Henry F., assignor.)						
Harrison, William S. (See Harrison, Edward M. and W. S.)						
Harrold, Amos, and W. H. Pfrimmer, Columbiana, Ohio. Steam steering-gear	560,129	May 12	1441	325	75	969
Harry, Edward, Buffalo, N. Y. Multiform lounge or settee	570,207	Oct. 27	2617	622	77	535
Harry, Edward, Buffalo, N. Y. Convertible couch or settee	570,208	Oct. 27	2620	622	77	535
Harry, Owen K., Dallas, Tex. Awning-bracket	552,997	Jan. 14	939	237	74	190
Harshaw, Henry A., Oshkosh, Wis. Handle-bar attachment for bicycles	558,019	Apr. 7	912	228	75	171
Harshaw, Seth T., <i>et al.</i> (See Vermilyea, Eugene, assignor.)						
Harshman, Della M., Chicago, Ill. Photographic retoucher	555,243	Feb. 25	2562	602	74	1031
Hart, Andrew H., Brooklyn, N. Y. Lens, spectacles, or eyeglasses	573,087	Dec. 15	1764	423	77	1653
Hart, Charles. (See Wennen and Hart.)						
Hart, Ellen M. (See Hart, Frederick, assignor.)						
Hart, Ethel M., New York, N. Y. Button-fastener	567,269	Sept. 8	947	225	76	1470
Hart, Frank. (See Forbes and Hart.)						
Hart, Frank B., <i>et al.</i> (See Barrow, Samuel, assignor.)						
Hart, Frederick, assignor to E. M. Hart, Poughkeepsie, N. Y. Pressure-gage	564,957	July 28	3007	{ 715 716 }	{ 76	601
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Watch-dial-fastening device	554,511	Feb. 11	1264	296	74	755
Hart, Gerald W., assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric snap-switch	554,221	Feb. 4	752	171	74	643
Hart, Gerald W., assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Snap-switch	569,332	Oct. 13	1067	253	77	220
Hart & Hegeman Manufacturing Company. (See Guett, Monroe, assignor.)						
Hart & Hegeman Manufacturing Company. (See Hart, Gerald W., assignor.)						
Hart, Henry C., Detroit, Mich. Gas-engine	569,918	Oct. 20	2103	501	77	423
Hart, Howard S., Chicago, Ill. Bedstead-rail plate	559,381	May 5	55	12	75	691
Hart, James, <i>et al.</i> (See Smith, John A., assignor.)						
Hart, James H., Meaderville, Mont. Primer for blasting-fuses	569,871	Oct. 20	2023	482	77	409
Hart, Joel T., Foster, Mo. Sash-holder	554,778	Feb. 18	1728	405	74	860
Hart, John P. (See Ferris and Hart.)						
Hart, John S. (See Roop, Brandon, and Hart.)						
Hart, John W., L. Griffith, and M. Goodwin, Pittsburg, Kans. Match-safe	572,541	Dec. 8	729	189	77	1443
Hart, Ozias P., assignor of one-half to J. L. Rainey, Murphysborough, Ill. Valve-gear	573,875	Dec. 29	3216	765	77	1955
Hart, Richard E., assignor to himself and J. S. Montgomery, Pittsburg, Pa. Manicure implement	568,249	Sept. 22	2666	638	76	1819
Hart, Sidney J., assignor to Multi-Color Printing Company, Kansas City, Mo. Inking attachment for printing-presses	558,586	Apr. 21	1810	458	75	390
Hart, Thomas F. (See McManus and Hart.)						
Hart, William H., Jr., Philadelphia, Pa. Bicycle-stand	564,787	July 28	2711	644	76	547
Hart, William H., Brooklyn, assignor to L. May, New York, N. Y. Subway for electrical conductors	564,994	Aug. 4	62	14	76	629
Hart, William H. H. (See West, Samuel A., assignor.)						
Hart, William M., New York, N. Y. Self-supporting toy derrick	568,975	Oct. 6	441	98	77	85
Hartford Automatic Switch and Truck Company. (See Mettler, Caspar W., J., and A., assignors.)						
Hartford Carpet Company. (See Borland and Sherwood, assignors.)						
Hartford, David F., Boston, Mass. Machine for cutting soles	568,757	Oct. 6	82	19	77	18
Hartford, Isaac J., Kirksville, Mo. Stock-watering tank	570,254	Oct. 27	2710	644	77	552
Hartford Machine Screw Company. (See Witherell, George E., assignor.)						
Hartford Machine Screw Company. (See Woodruff and McCabe, assignors.)						
Hartford Typewriter Company. (See Dodge, Edwin H., assignor.)						
Hartfuss, Jean P., Merzig, and E. Herz, Saarbrück, Germany. Electric call and alarm apparatus	555,160	Feb. 25	2416	573	74	1004
Harthan, Charles E., assignor to Thomson Electric Welding Company, of Maine. Chain	568,531	Sept. 29	3169	763	76	1927
Harthan, Charles E., Lynn, Mass. Electric hub-welding machine	556,414	Mar. 17	1699	396	74	1480
Hartig, John C. (See Payment and Hartig.)						
Hartigan, Joseph F., Salem, Va., assignor of one-half to H. C. Elliot, New York, N. Y. Machine for splitting cigarettes	553,583	Jan. 28	1972	{ 467 468 }	{ 74	413
Hartigan, William R., Burlington, Conn. Bottle	568,613	Sept. 29	3325	796	76	1957
Hartkorn, August, Jr. (See Clifford, Thomas G., assignor.)						
Hartland, Frederic W. T., and A. Malpas, West Bromwich, England. Molding-machine	572,656	Dec. 8	997	240	77	1488
Hartley, Albert. (See Hitchcock, John, assignor.)						
Hartley, Fred. (See Schreiber, Charles, assignor.)						
Hartley, Marcellus, <i>et al.</i> (See Beardsley, William N., assignor.)						
Hartman, Charles P., and J. H. Strouse, assignors of one-third to B. F. Sampsell, Elmira, N. Y. Automatic wagon-brake	556,673	Mar. 17	2133	497	74	1561
Hartman, Daniel M., and J. G. Donnell, Philadelphia, Pa. Machine for stacking cakes	571,663	Nov. 17	2172	{ 522 523 }	{ 77	1084
Hartman, Ernest L., <i>et al.</i> (See Frick, Henry L., assignor.)						
Hartman, Jacob. (See Heberline and Hartman.)						
Hartman, John, Philadelphia, Pa. Storm-front and lookout window for cars	552,662	Jan. 7	281	76	74	55

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Hartman, John M., Philadelphia, Pa. Device for preventing obstruction of blast in blast-furnaces	570,129	Oct. 27	2479	587	77	508
Hartman, John W., Bethlehem, Pa. Device for preventing accumulation of air in pressure-pipes	571,364	Nov. 17	1670	396	77	992
Hartman, Noble W., Toledo, Ohio. Sheet-metal tube	556,819	Mar. 24	2398	563	74	1627
Hartman, Noble W., assignor to W. C. Reh, Toledo, Ohio. Bucket for chain-pumps	567,712	Sept. 15	1705	409	76	1626
Hartmann, August. (See Paulus, Jacob, assignor.)						
Hartmann, Charles R., Jersey City, N. J. Confining-clamp for reeled wire	564,070	July 14	1469	344	76	289
Hartmann, Franz, Hallein, Austria-Hungary. Antiseptic and making same	568,678	Sept. 29	3449		76	1980
Hartmann, Jean, Mulhouse, Germany. Perforated door for steam-boilers.	569,872	Oct. 20	2023	483	77	409
Hartmann, Louis H., <i>et al.</i> (See Young, John R., assignor.)						
Hartmann, William C., assignor to Keystone Cream Separator Company, Limited, Philadelphia, Pa. Centrifugal separator	561,050	May 26	3113	717 718	75	1344
Hartness, James, Springfield, Vt. Turret-lathe	556,415	Mar. 17	1702	397	74	1481
Hartness, James, Springfield, Vt. Screw-cutting die	565,746	Aug. 11	1465	358	76	908
Hartness, Robert B. (See Armington, George A., assignor.)						
Hartog, John den, Ogden, Utah. Cover and lining for umbrellas or parasols	556,846	Mar. 24	2436	572	74	1635
Hartog, Stephen D., Jr., assignor to Eureka Stencil Machine Company, St. Louis, Mo. Manufacturing stencil-character punches	561,785	June 9	1302	313	75	1641
Hartog, Stephen D., Jr., assignor to Eureka Stencil Machine Company, St. Louis, Mo. Stencil-cutting machine	561,990	June 16	1646	401 402	75	1726
Harton, Pembroke D., Philadelphia, Pa. Tripлет-cake-making machine	571,921	Nov. 24	2659	630	77	1194
Harton, Thomas J., Waco, Tex. Ice-cream freezer	571,921	Jan. 14	1220	297	74	244
Hartshorn, Edmund F., Newark, N. J., assignor to Stewart Hartshorn Company, of New Jersey. Attaching window-shades to rollers	553,407	Jan. 21	1660	397	74	338
Hartshorn, Edmund F., Newark, N. J., assignor to Stewart Hartshorn Company, of New Jersey. Shade-attaching device	564,573	July 21	2337	549	76	460
Hartshorn, Edmund F., Newark, N. J., assignor to Stewart Hartshorn Company, of New Jersey. Attachment for shade-rollers	568,250	Sept. 22	2667	638	76	1819
Hartshorn, Edmund F., Newark, N. J., assignor to Stewart Hartshorn Company, of New Jersey. Attaching window-shades to rollers	572,294	Dec. 1	366	87	77	1349
Hartshorn, John S., <i>et al.</i> (See Howe, William H., assignor.)						
Hartshorne, Joseph. (See Bertrand and Thiel, assignors.)						
Hartsock, Joseph S. B., assignor to B. I. Garber, Washington, D. C. Hat-mark	574,325	Dec. 29	4070	967	77	2110
Hartson, Charles T., Eaton Rapids, Mich. Folding wheel-pedestal	554,685	Feb. 18	1571	370	74	831
Hartt, Eugene R. (See Thompson, William, assignor.)						
Harttert, Charles H., Milwaukee, Wis. Steam-trap	565,457	Aug. 11	915	218	76	805
Hartung, Emil, Mühlhausen, Germany. Cooking utensil	557,672	Apr. 7	269	65	75	51
Hartwell, Harry, Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Railway-crossing	559,284	Apr. 28	3160	764	75	644
Hartwell, Harry F., Baltimore, Md. Checkrein-hook	555,444	Feb. 25	2935	696	74	1101
Hartwell, Newton W., Louisville, Ky. Attachment for type-writing machines	557,203	Mar. 31	3078	738	74	1776
Hartz, William D., Talley Cavey, Pa. Railway-signal	571,191	Nov. 10	1379	322	77	923
Hartzell, Frank E., Alliance, Ohio. Display-rack	562,532	June 23	2553	620	75	1910
Hartzell, Frank E., Alliance, Ohio. Bracket	565,539	Aug. 11	1089	262	76	838
Hartzell, Frank E., Alliance, Ohio. Shelving	569,640	Oct. 20	1618	381	77	337
Harvester King Company. (See Appleby, John F., assignor.)						
Harvey, Amasa, Minneapolis, Minn. Friction-clutch	563,275	July 7	69	17, 18	76	15
Harvey, Elvathan D. (See Tomlinson, James K., assignor.)						
Harvey, Frank A., Minneapolis, Minn. Boxing-glove	570,092	Oct. 27	2422	575	77	497
Harvey, Hayward A., Orange, assignor to Harvey Steel Company, Newark, N. J. Manufacture of flanged tires for car-wheels	560,160	May 12	1491	337	75	978
Harvey, Hayward A., Orange, assignor to Harvey Steel Company, Newark, N. J. Flanged metal tires for car or locomotive wheels	560,161	May 12	1493	337	75	978
Harvey, Herbert F., Cleveland, Ohio. Dental obtunder	571,970	Nov. 24	2737	647	77	1210
Harvey, James M., Palmyra, assignor of two-thirds to J. H. Marable, Sr., and W. M. McCauley, Clarksville, Tenn. Combined animal-trap and chicken-coop	556,266	Mar. 10	1401	329	74	1409
Harvey, Leopoldina, and J. Amos, Los Angeles, Cal. Shoulder and back bracing chair	567,096	Sept. 1	644	150	76	1404
Harvey, Park B., and C. F. Harris, New London, Conn. Curtain-pole	555,603	Mar. 3	203	47	74	1167
Harvey, Patrick, Chicago, Ill. Tank-valve	555,861	Mar. 3	626	150	74	1245
Harvey, Ruth D., Boston, Mass. Suspenders	559,058	Apr. 28	2707	659	75	559
Harvey Steel Company. (See Harvey, Hayward A., assignor.)						
Harvey, Victoria J., Red Jacket, Mich. Key-holder	568,758	Oct. 6	84	20	77	19
Harvey, William, Jermyn, Pa. Hand-loom	562,138	Sept. 22	2478	595 596	76	1784
Harvey, William F. H., assignor to J. W. Lappin, J. Braun, and J. Gaffney, Kokomo, Ind. Wheel	571,439	Nov. 17	1794	428	77	1015
Harzer, Curt. (See Dehne and Harzer.)						
Haschemeyer, Rudolph. (See Franzen and Haschemeyer.)						
Hasell Perfected Railway Signal Company. (See Thomas, George L., assignor.)						
Haselwood, Albert O., Buxton, England. Funnel-holder	556,055	Mar. 10	1015	243	74	1337
Hasenclever, Hannah M. (See Clarenbach, Louis, Jr., assignor.)						
Hasenpflug, Ezra W. (See Hasenpflug, John A. and E. W.)						
Hasenpflug, John A. and E. W., Cleveland, Ohio. Water-filter	573,409	Dec. 15	2334	557	77	1757
Hasenritter, George W., Hermann, Mo. Meat-chopping implement	567,471	Sept. 8	1301	315	76	1534
Haskell, Andrew J. and J. B., Waterford, Me. Gage	559,450	May 5	181	40	75	717
Haskell, Benjamin C., assignor to Arlington Heights Manufacturing Company, Arlington, Mass. Machine for combing fleece or hair of tanned pelts or skins	566,454	Aug. 25	2760	671	76	1188
Haskell, Joseph B. (See Haskell, Andrew J. and J. B.)						
Haskell, William H. (See Rundlett, William D., assignor.)						
Haskins, Charles D., Brooklyn, N. Y., assignor to Western Electric Company, Chicago, Ill. Electromagnet	553,675	Jan. 25	2126	503	74	440
Haskins, Edward. (See Underwood, Chester J., assignor.)						
Haskins, James H., Chicago, Ill. Machine for forming and welding rings	554,687	Feb. 18	1573	370	74	831
Haskins, James H., Chicago, Ill. Bolt threading and pointing machine	556,054	Mar. 10	1009	241 242	74	1337
Haslam, John G., Philadelphia, Pa. Yarn-dyeing machine	556,184	Mar. 10	1254	292 293	74	1380
Hass, Cæsar, London, England. Machine for manufacture of excelsior	561,393	June 2	582	145 146	75	1481
Hasselberger, Frederick, New York, N. Y. Pocket-book	558,728	Apr. 21	2133	514	75	434
Hasselberger, Frederick, New York, N. Y. Pocket-book	558,729	Apr. 21	2134	514	75	435
Hasselquist, Albert A. (See Ackerman and Hasselquist.)						
Hasshagen, Theodor, Abilene, Kans. Lock	562,077	June 16	1813	437	75	1755

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dis.	Vol.	Page.
Hassler, Robert H., Dayton, Ohio. Fan-motor	557,384	Mar. 31	3398	816	74	1836
Hastie, W. G., <i>et al.</i> (See Mummery, Edwin G., assignor.)						
Hastings, Charles L., Jacksonville, Ill. Line-indicator for copyists	560,989	May 26	3008	693	75	1323
Hastings, Henry. (See Voss, Detlef C., assignor.)						
Hastings, Henry M., Cooksville, Ill. Window-sash lock	566,171	Aug. 18	2216	540	76	1070
Hastings, Horace L., and W. Russell, Chelsea, Mass.; said Russell assignor to said Hastings. Magic lantern	564,177	July 14	1671	390 391	76	327
Hastings, James T., assignor of one-half to C. A. Crane, Chicago, Ill. Fish-hook	564,517	July 21	2228	523	76	441
Hastings, James T., assignor of one-half to C. A. Crane, Chicago, Ill. Fish-hook	570,632	Nov. 3	397	94	77	711
Hastrup & Co., A. (See Clasen, John, assignor.)						
Hasty, Jerome A., Minneapolis, Minn. Word-counter for type-writing machines	557,674	Apr. 7	271	65	75	51
Hatch Bicycle Patch Company. (See Hatch, James L., assignor.)						
Hatch, C. W., <i>et al.</i> (See Munson, Frank, assignor.)						
Hatch, Charles, Jr., Revere, assignor, by mesne assignments, to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Nail	570,633	Nov. 3	398	94	77	711
Hatch, Charles F. (See Ryan and Whitney, assignors.)						
Hatch, Henry C., Windham, Conn. Trousers-stretcher	569,021	Oct. 6	528	121	77	100
Hatch, Hyatt C. (See Adams, Lindsley, assignor.)						
Hatch, James L., Milford, Mass., assignor, by mesne assignments, to Hatch Bicycle Patch Company, Saco, Me. Hole-closing device for bicycle-tires	562,764	June 23	2966	718	75	1989
Hatch, W. P. (See Elliott, George C., assignor.)						
Hatch, W. P. (See Schipkowsky, Julius, assignor.)						
Hatch, W. P., <i>et al.</i> (See Munson, Frank, assignor.)						
Hatcher, Judson N., Williamsburg, Mo. Churn-dasher	565,980	Aug. 18	1909	463	76	1012
Hatchwell, Julio, <i>et al.</i> (See Grobet, Charles E., assignor.)						
Hatfield, Thomas J., Dublin, Ind. Grain and seed cleaner	574,354	Dec. 29	4123	979	77	2120
Hatfield, Wentworth W., Shelbyville, Ill. Gate	555,808	Mar. 3	531	128	74	1227
Hatfield, William H., Sulphur Springs, Ala. Car-coupling	572,542	Dec. 8	791	189	77	1444
Hatfield, William H., Sulphur Springs, Ala., assignor of one-half to W. G. Morrison, New England City, Ga. Car-coupling	552,836	Jan. 7	633	155 70 71 72 73	74	119
Hathaway, George M., New York, N. Y. Match-making machine	559,525	May 5	298		75	740
Hathaway High Explosive Company. (See Dashiell, Robert B., assignor.)						
Hathaway, Jesse E., Santa Fé Springs, Cal. Gas-generator	572,797	Dec. 8	1255	303	77	1536
Hathaway, Lorenzo D., Foxborough, Mass. Lifting-jack	559,579	May 5	388	94	75	758
Hathaway, Samuel G., Syracuse, N. Y. Washing device	559,977	May 12	1151	257	75	915
Haub, Rudolf, Berlin, Germany. Car-coupling	553,239	Jan. 21	1364	332	74	285
Haubner, Frank O. (See Ward, Anthony, assignor.)						
Haubner, Frank O., New York, N. Y. Stair-pad or carpet-lining	570,221	Oct. 27	2643	626	77	539
Haubtman, Leon F., New Orleans, La. Apparatus for evaporating liquids	568,614	Sept. 29	3325	797	76	1937
Haubtman, Leon F., New Orleans, La. Apparatus for evaporating liquids	568,615	Sept. 29	3327	797	76	1937
Haubtman, Leon F., New Orleans, La. Apparatus for evaporating liquids	569,456	Oct. 13	1264	297 298	77	255
Haubtman, Leon F., New Orleans, La. Evaporating-pan	573,219	Dec. 15	1993	479	77	1696
Hauck, Frank M., <i>et al.</i> (See Ward, James A., assignor.)						
Hauck, Thomas J., <i>et al.</i> (See Ward, James A., assignor.)						
Hauenstein, John, New Ulm, Minn. Barrel-forming machine	560,991	May 26	3015	694	75	1324
Hauermas, Edgar A., Saratoga Springs, N. Y. Automatic electromagnetic brake for railway-cars	569,101	Oct. 6	660	152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	77	126
Hauff, Christian F., Springfield, Mass. Paper-polishing machine	557,806	Apr. 7	509	122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	75	97
Haug, Herman, assignor to C. H. McIntire, Newark, N. J. Wire-connector	569,713	Oct. 20	1765	419	77	362
Haughey, Michael, St. Louis, Mo. Interfering device for horses	555,041	Feb. 18	2206	526	74	947
Hauk, Charles D., Chicago, Ill. Manufacture of illuminating-gas	560,990	May 26	3010	693		

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hawkins, Henry. (See Hawkins, Samuel H. and H.)						
Hawkins, Jay R., Mountainville, N. Y. Snow and dirt cart.	552,876	Jan. 7	716	174	74	134
Hawkins, Millard J., Newport, N. Y. Machine for soldering caps on cans.	568,849	Oct. 6	228	53 54 55	77	45
Hawkins, Robert B., Clarendon, Tex. Car-replacer	554,512	Feb. 11	1265	296	74	755
Hawkins, Samuel H. and H., assignors, by mesne assignments, of two-thirds to W. R. Edwards, London, England. Apparatus for producing carburated hydrogen	560,582	May 19	2248	515	75	1163
Hawkrige, Arthur, Weehawken, N. J. Lid for ink-wells	568,976	Oct. 6	442	99	77	85
Hawkrige, Joseph, London, England, assignor to New Jersey Asbestos Company, Camden, N. J. Woven body for steam-packing.	567,270	Sept. 8	948	226	76	1470
Hawks, Erastus L., Dayton, Ohio, assignor to International Sweeping Machine Company, of West Virginia. Street-sweeper	553,065	Jan. 14	1052	257	74	211
Hawks, Erastus L., and D. F. Graham, Dayton, Ohio, assignors to International Sweeping Machine Company, of West Virginia. Street-sweeper	553,066	Jan. 14	1054	257 258	74	211
Hawley, Hattie M., et al. (See Hull, Randolph P., assignor.)						
Hawley, Lincoln H., Canandaigua, N. Y. Pressure reducing and regulating valve	573,462	Dec. 22	2475	586 587	77	1801
Hawley, M. J., San Francisco, Cal. Stone-clamp	552,759	Jan. 7	474	117	74	89
Hawley, Victor M., Rochester, N. Y. Coffee or tea percolator	567,387	Sept. 8	1171	280	76	1509
Hawley, Warren A., Philadelphia, Pa. Recording-slip	567,594	Oct. 15	1511	364	76	1588
Hawliczek, Josef, Liverpool, assignor to United Alkali Company, Limited, Widnes, England. Making sodium bicarbonate from roaster-ash	574,089	Dec. 29	3613	864	77	2028
Haworth, George D., Decatur, Ill. Corn-planter	572,543	Dec. 8	792	189 190	77	1444
Haworth, Lyssander L., Chicago Lawn, Ill. Foot-holder for bicycle-pedals	558,068	Apr. 14	1014	247	75	207
Haws, William H., assignor of one-half to M. W. Keim, Johnstown, Pa. Bottom for Bessemer converters	556,539	Mar. 17	1937	452	74	1524
Hawthorn, John A., Lancaster, Pa. Mechanical movement	558,386	Apr. 14	1541	377	75	308
Hawthorne, Ellsworth A., Philadelphia, and H. Sheble, Melrose, Pa. Punching-bag	565,747	Aug. 11	1468	359	76	908
Hay, Abraham D., New Lebanon, Ohio. Gearing for wind-motors	558,949	Apr. 28	2523	612	75	524
Hay, Archibald, Paterson, N. J. Surgical knockdown table	557,385	Mar. 31	3399	816	74	1837
Hay, John F., assignor to Erie Malleable Iron Company, Limited, Erie, Pa. Car-coupling	566,907	Sept. 1	292	68	76	1338
Hay, William H., Portersville, Pa. Tubing and casing elevator	553,711	Jan. 28	2185	518	74	451
Hay, William J. (See Barker, Carter, assignor.)						
Hay, William R. G., London, England. Controlling-valve apparatus for steering-gear	558,806	Apr. 21	2268	549 550	75	459
Hay & Willits Manufacturing Company. (See Willits, Van Burton, assignor.)						
Hayball, William, Portland, Oreg. Reservoir blacking-brush	558,172	Apr. 14	1178	287	75	240
Hayden, Everett, Washington, D. C. Game-counter	563,662	July 7	711	168	76	134
Hayden, George W., Oak Park, assignor to Crane Company, Chicago, Ill. Triple-valve mechanism	556,886	Mar. 24	2509	592	74	1649
Hayden, James T., Oak Park, assignor to Crane Company, Chicago, Ill. Safety-vent	571,476	Nov. 17	1854	441	77	1026
Hayden, Perry B., Syracuse, N. Y. Harrow attachment for plows	557,269	Mar. 31	3195	767	74	1796
Haydon, George. (See Smith, Haydon, and Urry.)						
Hayem & Co., J. (See Hirschler, Helene R., assignor.)						
Hayes, Almeron G. (See Casey, Niram, assignor.)						
Hayes, Charles W., et al. (See Gould, David W., assignor.)						
Hayes, D. J., et al. (See Moehn, John N., assignor.)						
Hayes, Daniel D., Oakland, Cal. Portable water-tower	562,895	June 30	3325	779	75	2056
Hayes, Edward, Rochester, N. Y. Generator	571,762	Nov. 24	2369	566	77	1140
Hayes, Eli B., Oshkosh, Wis. Gang-bit boring or mortising machine	567,097	Sept. 1	646	150 151	76	1405
Hayes, Eugenio K., Galva, Ill. Combined check-rower and drill corn-planter	559,892	May 12	1005	223	75	886
Hayes, George, New York, N. Y. Wheel for bicycles	572,892	Dec. 8	1393	337	77	1564
Hayes, George H. (See Van Horn and Hayes.)						
Hayes, Hector J. (See Dilley and Hayes.)						
Hayes, John C., Pocatello, Idaho. Switch-lock	562,182	June 16	1983	480	75	1788
Hayes, John P., Philadelphia, Pa. Oil-torch or breamer for painters' or other purposes.	558,948	Apr. 28	2522	611	75	524
Hayes, Porter C., assignor of one-half to S. W. Sigler, Burghill, Ohio. Thill-coupling	569,131	Oct. 6	710	166 167	77	135
Hayes, Will S., Cleveland, Ohio. Apparatus for drawing wire	565,748	Aug. 11	1470	359	76	909
Hayes, William, et al. (See Phelps, Adelbert, assignor.)						
Hayles, John F., assignor of one-half to L. W. Savage, Evergreen, Ala. Animal-muzzle	561,051	May 26	3115	718	75	1344
Hayn, Friedrich W. N. E., Bahia, Brazil, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Contact device	567,899	Sept. 15	2013	483	76	1687
Haynes, Charles F., Boston, Mass. Book-rest	568,139	Sept. 22	2481	596	76	1784
Haynes, Charles F., Boston, Mass. Book-rest for school-desks, tables, &c	573,089	Dec. 15	1766	424	77	1654
Haynes, Daniel, Sealy, Tex. Means for making bats for mattresses	557,675	Apr. 7	273	66	75	51
Haynes, John L., Pawling, N. Y. Can-opener	571,664	Nov. 17	2177	524	77	1085
Haynes, William H., Philadelphia, Pa. Canopy-top for children's carriages	565,619	Aug. 11	1228	296 297	76	863
Hays, George W., and G. E. Sanderson, Auburn, Nebr. Pump	553,808	Jan. 28	2350	559	74	482
Hays, Jay D. (See Warner, Hays, and Rogers.)						
Hays, Morris, Monmouth, Ill. Wire fence	560,583	May 19	2250	516	75	1164
Hays, William J., Decatur, Ill. Gate-latch	572,485	Dec. 1	691	165	77	1410
Haythorn, John, Glasgow, Scotland. Water-tube boiler and tube-fastening	558,685	Apr. 21	2066	500	75	421
Hayward, Albert T. (See Porter, Daniel R., assignor.)						
Hayward, Alvinza, et al. (See Thomas, Charles H., assignor.)						
Hayward, L. A. (See Hawkins, Frederick H., assignor.)						
Hayward, Martin L., North Reading, Mass. Whiffletree-hook	564,016	July 14	1367	318	76	269
Haywood, William, assignor of one-half to W. B. Grimes, Philadelphia, Pa. Dumping-wagon	557,807	Apr. 7	511	123	75	97
Haywood, William, assignor of one-half to W. B. Grimes, Philadelphia, Pa. Dumping-wagon	564,995	Aug. 4	64	14, 15	76	629
Hazard, Frederick J. H., Toronto, Canada. Pneumatic cash-carrier	566,575	Aug. 25	2935	717	76	1222
Hazard, John. (See Edwards and Hazard.)						
Hazard, Schuyler. (See Lee and Hazard.)						
Hazel, Crockett. (See White, Frank H., assignor.)						
Hazell, Joseph W., assignor to Courtland Machine Company of Baltimore City, Baltimore, Md. Water-heater	555,767	Mar. 3	468	112	74	1214
Hazeltine, Charles W., St. Louis, Mo. Puncture-proof covering for pneumatic tires	560,408	May 19	1954	446	75	1110
Hazen, Jacob P., Shirley, Mass. Chicken-coop	571,592	Nov. 17	2059	493	77	1062
Head, Katie D., Lawrenceburg, Ky. Skirt-holder	564,687	July 28	2528	598	76	515
Head, Katie D., Lawrenceburg, Ky. Hat-fastening	572,202	Dec. 1	183	44	77	1313

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Head, Volney J., assignor of one-half to C. S. Woodard, Oak Park, Ill. Trace-fastener	563,485	July 7	427	98	76	82
Head, William. (See Leonard and Head.)						
Headding, Charles B., <i>et al.</i> (See Schaeffer, Henry, assignor.)						
Headding, Newton J., <i>et al.</i> (See Schaeffer, Henry, assignor.)						
Headlee, Melvin P. (See Hoobler and Headlee.)						
Headley, Frank J., New York, N. Y. Station-indicator	557,677	Apr. 7	277	67	75	52
Heald, John L., Crockett, Cal. Controlling mechanism for engines	554,340	Feb. 11	970	224 225	74	699
Heald, Joseph C., assignor of one-half to A. C. Fowler, Lawrence, Mass. Hub-turning lathe	574,901	Nov. 24	2625	622 623	77	1188
Heald, Leander S., Barre, Mass. Rotary cutter	567,135	Sept. 8	721	169	76	1430
Healy, John, New York, N. Y. Chair	568,679	Sept. 29	3450	825	76	1981
Heap, Annie B., and H. H. Van Kuran, Chicago, Ill. Game apparatus	574,150	Dec. 29	3721	886	77	2047
Heap, Charles. (See Grosselin, Nicolas H., assignor.)						
Heap, David P., U. S. Army. Sound-locating instrument	564,926	July 28	2945	702 703	76	591
Hearne, John. (See Mitchell and Hearne.)						
Hearne, John, New York, and E. E. Cisco, Brooklyn, N. Y. Machine for tapping mains	554,513	Feb. 11	1266	296	74	755
Hearnshaw, Frank, <i>et al.</i> (See Hearnshaw, Frank J., assignor.)						
Hearnshaw, Frank J., assignor of one-half to F. Hearnshaw and A. Wintermute, Chicago, Ill. Support for wire laths and partitions	573,512	Dec. 22	2555	606	77	1815
Hearsch, Peter, Flint, Mich. Tobacco-case	561,586	June 9	940	225	75	1573
Heart, Alexander, Peoria, Ill. Check-row corn-planter	566,576	Aug. 25	2939	717	76	1223
Heater, Jacob D. (See Glanzer, William, assignor.)						
Heath, Charlotte, London, England. Machine for perforating documents	571,365	Nov. 17	1672	396	77	993
Heath, Elroy N., Wakefield, assignor of one-half to S. A. Woods Machine Company, Boston, Mass. Propelling mechanism for bicycles	557,676	Apr. 7	274	66	75	52
Heath, George S., Springfield, assignor to C. F. Howe, Boston, Mass. Type-writing machine	560,162	May 12	1493	338	75	978
Heath, George S., Springfield, assignor to C. F. Howe, Boston, Mass. Type-writing machine	560,163	May 12	1496	339	75	979
Heath, George S., Springfield, assignor to C. F. Howe, Boston, Mass. Type-writing machine	560,164	May 12	1500	340	75	979
Heath, Harry E., assignor to Eddy Electric Manufacturing Company, Windsor, Conn. Rheostat	557,386	Mar. 31	3400	816	74	1837
Heath, Lewis W., Grand Rapids, Mich. Apparatus for playing duplicate whist	561,786	June 9	1303	313	75	1641
Heath, Mark A., Providence, R. I. Metallic bale-covering	556,056	Mar. 10	1016	243	74	1338
Heath, Mary, New York, N. Y. Puzzle	564,279	July 21	1840	431	76	370
Heath, Thomas T., Loveland, and A. N. Verdin, Glendale, Ohio; said Verdin assignor to said Heath. Type-writing machine	553,909	Feb. 4	193	41, 42	74	541
Heath, Thomas T., Loveland, and A. N. Verdin, Glendale, Ohio; said Verdin assignor to said Heath. Friction-clutch	553,983	Feb. 4	329	72	74	565
Heath, Thomas T., Loveland, and A. N. Verdin, Glendale, Ohio; said Verdin assignor to said Heath. Profiling-machine	553,984	Feb. 4	330	73	74	565
Heath, Thomas T., Loveland, and A. N. Verdin, Glendale, Ohio; said Verdin assignor to said Heath. Type-carrier for typographic machines	553,985	Feb. 4	333	73	74	566
Heath, Thomas T., Loveland, and A. N. Verdin, Glendale, Ohio; said Verdin assignor to said Heath. Tablet-holder for typographic machines	553,986	Feb. 4	337	73	74	566
Heath, Thomas T., Loveland, and A. N. Verdin, Glendale, Ohio; said Verdin assignor to said Heath. Ratchet-movement	553,987	Feb. 4	338	74	74	567
Heath, Thomas T., Loveland, and A. N. Verdin, Glendale, Ohio; said Verdin assignor to said Heath. Multiple profiling-machine	553,988	Feb. 4	339	74	74	567
Heath, Webster L. (See Holmes and Heath.)						
Heathcote, Lewin K., Glen Rock, Pa. Shuttle-worker for looms	560,992	May 26	3016	695	75	1325
Heaton, George E., Three Rivers, Mich. Bicycle	558,069	Apr. 14	1015	247	75	207
Heaton-Peninsular Button Fastener Company. (See Taylor, Eugene H., assignor.)						
Heaton, Thomas T. (See Barraclough and Heaton.)						
Heaton, William, Allerton, Ill. Gate	564,071	July 14	1470	345	76	289
Heberer, Adam, Alameda, Cal. Centrifugal machine	559,059	Apr. 28	2708	659	75	559
Heberer, Adam, Alameda, Cal. Steam-generator	566,395	Aug. 25	2618	640	76	1163
Heberline, Fred A., New Brighton, and J. Hartman, Pittsburg, Pa. Package for powders	571,521	Nov. 17	1937	462	77	1041
Hebgen, Max, Butte, assignor of one-half to H. W. Turner, Silver Bow, Mont. Electric drill	556,502	Mar. 17	1872	436 437	74	1512
Hecht, Ferdinand, <i>et al.</i> (See Nutting, Granville, assignor.)						
Heck, August, assignor of two-thirds to A. Nusser and F. Baingo, Philadelphia, Pa. Twine holder and cutter	554,688	Feb. 18	1575	371	74	831
Heck, August, assignor of two-thirds to A. Nusser and F. Baingo, Philadelphia, Pa. Electrotroler	558,904	Apr. 21	2434	592	75	491
Heck, Charlotte M., <i>et al.</i> (See Richardson, Lewis C., assignor.)						
Heckel, George P., <i>et al.</i> (See Reynolds, Dexter, assignor.)						
Hecker, Jacob S., Philadelphia, Pa. Keyhole-guard	572,988	Dec. 15	1586	380	77	1619
Heckert, William, Findlay, Ohio. Apparatus for casting tubular ingots or metal tubes	569,641	Oct. 20	1619	381	77	337
Heckert, William, Findlay, Ohio. Furnace for iron-working	573,590	Dec. 22	2688	639	77	1841
Heckler, Charles. (See Heckler, Hans, assignor.)						
Heckler, Hans, Frankfurt-on-the-Main, Germany, assignor to C. Heckler, Missoula, Mont. Swimming and life-saving device	560,165	May 12	1505	341	75	980
Heckman, James J., <i>et al.</i> (See Wright, Elmer H., assignor.)						
Hedberg, Karl, Newport, R. I. Egg-cutter	562,605	June 23	2703	654	75	1938
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Coupler for pneumatic actions	566,314	Aug. 25	2457	602	76	1132
Hedges, Vespasian V., Coffeyville, Kans. Electric fan for ventilating streets or alleys	572,008	Nov. 24	2801	660 661	77	1222
Heene, Edward G., assignor to G. W. Heene, Cleveland, Ohio. Key for time-recorders	571,268	Nov. 10	1511	357	77	948
Heene, George W. (See Heene, Edward G., assignor.)						
Heene, George W., assignor to Cleveland Time Register Company, Cleveland, Ohio. Printing-machine	569,826	Oct. 20	1952	464 465	77	396
Heer, Isak, Zurich, Switzerland. Loom	571,192	Nov. 10	1381	322	77	924
Heeren, William E. (See Schoeppl and Heeren.)						
Heermans, Paul W. (See Bailey, Marcus B., assignor.)						
Heermans, Thaddeus W., Chicago, Ill. Control device for elevators	566,516	Aug. 25	2856	694	76	1207
Heermans, Thaddeus W., Evanston, Ill. Elevator	567,541	Sept. 8	1404	337	76	1553
Heermans, Thaddeus W., Evanston, assignor to Crane Elevator Company, Chicago, Ill. Hydraulic elevator	559,526	May 5	302	73	75	740

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Heffelfinger, Richard H., <i>et al.</i> (See Holder, William H., assignor.)						
Heffron, John. (See Date, Heffron, Scranton, and Scudder.)						
Hedin, R. L. (See Brown, Charles W., assignor.)						
Heimer-Alteneck, Friedrich von, and H. G6rges, Berlin, Germany, assignors to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring-instrument	555,286	Feb. 25	2649	620	74	1048
Hefner, William H., Rock Hill, S. C. Gate	559,799	May 12	778	187	75	843
Hegarty, Reuben, Madera, Pa. Measuring-pole	571,366	Nov. 17	1675	396	77	993
Hegeler, Julius W., La Salle, Ill. Apparatus for elevating liquids.	558,173	Apr. 14	1179	287	75	240
Hegenschmidt, Wilhelm. (See Petrus, Koszl, and Hegenschmidt.)						
Heggen, Charles O., assignor to Russell & Co., Massillon, Ohio. Steam street-roller	554,421	Feb. 11	1109	{ 258 259	} 74	726
Heggen, Charles O., assignor to Russell & Company, Massillon, Ohio. Locomotive-boiler	571,118	Nov. 10	1265	293	77	901
Heiberger, August. (See Bardshar and Heiberger.)						
Heiberger, Isaac. (See Mahler, Adam G., assignor.)						
Heid, Justin. (See Weber, Peter, assignor.)						
Heidelberg, Samuel R., Palestine, assignor of one-half to H. H. Rowland, Tyler, Tex. Locomotive-pilot coupling	553,340	Jan. 21	1549	370	74	317
Heidelberg, Samuel R., assignor of one half to H. H. Rowland, Tyler, Tex. Combined air-hose coupling and stop-valve	565,981	Aug. 18	1909	463	76	1012
Heidenreich, Eyvind L., and G. Monrath, Chicago, Ill.; said Monrath assignor to said Heidenreich. Cable-carrier	571,440	Nov. 17	1795	428	77	1015
Heikel, Daniel A., assignor to B. V. Nordberg, Milwaukee, Wis. Excelsior-machine	554,267	Feb. 11	844	193	74	676
Heilborn, Francis F., deceased, Plainville, Mass.; L. A. Heilborn, administrator. Fruit-holder	559,527	May 5	204	73	75	741
Heilborn, Franz, Breslau, Germany. Eyeglasses	564,518	July 21	2229	523	76	441
Heilborn, Leopold A., administrator. (See Heilborn, Francis F.)						
Heilbron, Jacob, St. Paul, Minn. Hydrocarbon vaporizer and burner	562,961	June 30	3363	809	75	2086
Heilman Plow Company. (See Rosencranz, Albert C., assignor.)						
Heilmann, Jean J., Paris, France. Balanced steam-engine	555,698	Mar. 3	364	84	74	1195
Heilprin, Angelo, Philadelphia, Pa. Ventilating car-window	558,387	Apr. 14	1545	377	75	308
Heim, Adam, Marion, Ind. Gate attachment	553,283	Jan. 21	1460	351	74	301
Heim, Emil. (See Ferling and Heim.)						
Heim, Lewis R., Danbury, Conn. Hat-stiffening machine	573,876	Dec. 29	3217	{ 765 766	} 77	1955
Heimann, Heinrich. (See Herzberg and Heimann.)						
Heimann, Salomon, assignor to L. Toch, New York, N. Y. Globe for electric-arc lights	565,269	Aug. 4	607	143	76	727
Heimberger, Harry J., Columbus, Ohio. Printing machine	568,904	Oct. 6	316	73	77	61
Hein, Henry, <i>et al.</i> (See Neild, Edwin, assignor.)						
Heindel, Charles H., Glen Rock, Pa. Let-off and take-up mechanism for looms	574,326	Dec. 29	4071	967	77	2110
Heine, Arthur, assignor to Fabrik Loehmann'scher Musicwerke, Actien-Gesellschaft, Leipzig-Gohlis, Germany. Apparatus for sounding stringed musical instruments	571,763	Nov. 24	2372	566	77	1141
Heine, August, Wahpeton, N. D. Band-cutter and feeder	564,280	July 21	1841	{ 431 432	} 76	371
Heinecke, Hermann, assignor of one-half to B. Herting, Reinickendorf, Germany. Artificial leg	572,989	Dec. 15	1588	381	77	1619
Heineke, Martin. (See Sattley and Heineke.)						
Heineken, Theodore S., Burlington, N. J. Combined soap-cup and holder for washbasins	572,635	Dec. 8	964	232	77	1481
Heinemann, Albert, Berlin, Germany. Hermetically-closing jug	572,257	Dec. 1	288	69	77	1334
Heinemann, Arthur. (See Sch6fer and Heinemann.)						
Heinemann, Felix, Charlottenburg, Germany. Baking and cooking oven	569,413	Oct. 13	1205	284	77	245
Heinemann, Friedrich, <i>et al.</i> (See Girtler, John F., assignor.)						
Heinemann, Theodore W., Los Angeles, Cal. Plaster	534,183	Feb. 4	699		74	633
Heinkel, George. (See Pridham, Samuel S., assignor.)						
Heinle, Albert G., Esplen, Pa. Underground railway system	558,807	Apr. 21	2270	550	75	459
Heinle, Albert G., McKee's Rock, Pa. Rail	562,135	June 16	1901	460	75	1772
Heins, Daniel, Carrollton, Mo. Water-purifying force-pump	553,910	Feb. 4	205	43	74	543
Heinsen, Nicholas. (See Mighell, Seward N., assignor.)						
Heintz, Emma L. (See Heintz, Theodore R. and E. L.)						
Heintz, Theodore R. and E. L., Clifton Terrace, Ill. Folding frame for supporting canopies	563,375	July 7	242	54, 55	76	49
Heintzelman, Taylor W., Sacramento, Cal. Locomotive-bell ringer	552,760	Jan. 7	475	118	74	90
Heinz & Munschaer. (See Schneider, John J., assignor.)						
Heitmann, Hans H. W. (See Seibel, William A., assignor.)						
Heitmann, Max, New York, N. Y. Fountain shading-pen	565,982	Aug. 18	1912	463	76	1013
Heitsch, Charley, Pontiac, Mich. Fence-wire-winding device	567,713	Sept. 15	1706	409	76	1626
Heiz, Emil, Paterson, N. J. Sand-box for cars	569,035	June 30	3476	835	75	2108
Helbing, Paul. (See Monti, Antonio, assignor.)						
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Hinge	565,983	Aug. 18	1913	464	76	1013
Helden, Charles W., Florence, Ala. Checking device	566,577	Aug. 25	2940	718	76	1224
Helfenstein, James M., New York, and W. K. Holmes, Brooklyn, N. Y. Time indicator and register	564,072	July 14	1472	345	76	289
Helios Electric Company. (See Spencer and Toerring, assignors.)						
Heller, Peter J., Montclair, N. J. Plow	567,136	Sept. 8	722	169	76	1431
Hellmann, Bernhard, B. Ludikar, and F. Suda, Prague, Austria-Hungary. Stove	564,996	Aug. 4	65	15	76	629
Hellwegen, Henry A. (See Stevenson, David J., assignor.)						
Hellwig, Justus W., Baltimore, Md. Bicycle-lock	572,798	Dec. 8	1256	{ 303 304	} 77	1536
Helm, John F. (See Helm and Rowlands.)						
Helm, Ralph and J. F., and J. R. Rowlands, Syracuse, N. Y. Mailing-machine	556,747	Mar. 24	2263	{ 529 530 531	} 74	1602
Helme & McIlhenny. (See Delaney, John, assignor.)						
Helmick, Oliver. (See Gilpin and Helmick.)						
Helmore, Robert E., West Bay City, Mich. Bicycle-seat	568,977	Oct. 6	444	99	77	86
Helprin, David T., New York, N. Y. Folding cot	572,432	Dec. 1	601	142	77	1392
Helton, James F. (See Schenck and Helton.)						
Hem, Halvor O., Kansas City, Kans. Baling-press	554,689	Feb. 18	1576	371	74	832
Hemingway, Sylvanus, Potsdam, N. Y. Hop-picking machine	566,173	Aug. 18	2218	{ 540 541	} 76	1070
Hemleb, Martin. (See Diehl and Hemleb.)						
Hemp, Lewis W., St. Louis, Mo. Portable oil tank and pump	571,877	Nov. 24	2567	609	77	1177
Hemp, Lewis W., St. Louis, Mo. Stove	571,878	Nov. 24	2569	609	77	1178
Hempel, Heinrich, Berlin, Germany. Telephone-call register	555,645	Mar. 3	283	66	74	1181
Hemperly, Galen, <i>et al.</i> (See Kennedy, James M., assignor.)						
Hempfling, John, Kansas City, Kans. Horseshoe	552,958	Jan. 14	878	213	74	178

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Hemphill, Alexander L., Gillespie, Ill. Device for washing forms	573,410	Dec. 15	2335	557	77	1757
Hemphill, Joshua D., Shelton, and G. H. Radcliffe, Derby, Conn. Guide for fabric-cutting machines	557,815	Apr. 7	522	126	75	99
Hempsted, Samuel W., Columbus, Ohio. Covering for freight-car roofs	556,973	Mar. 24	2654	623	74	1676
Hemstreet, William, Brooklyn, N. Y. Car-fender	556,267	Mar. 10	1402	329	74	1410
Hench, Samuel N., and W. A. Dromgold, York, Pa., assignors to National Harrow Company, of New Jersey. Harrow	555,699	Mar. 3	365	84, 85	74	1195
Hendee & Nelson Manufacturing Company <i>et al.</i> (See Moore, James L., assignor.)						
Hendee & Nelson Manufacturing Company <i>et al.</i> (See Moore and Brown, assignors.)						
Henderson Ames Company. (See Reynolds, Noah H., assignor.)						
Henderson, Cora E., Sioux City, Iowa. Garment-supporter	565,270	Aug. 4	608	144	76	727
Henderson, George, Philadelphia, Pa. Curve-molding machine	569,714	Oct. 20	1766	419	77	362
Henderson, George, Philadelphia, Pa. Cornice-machine	573,655	Dec. 22	2840	670	77	1870
Henderson, Isaac, Vancouver, Canada. Kneader and mixer	560,794	May 26	2675	615	75	1260
Henderson, James A. (See Scullin and Maehlen, assignors.)						
Henderson, John C., assignor to J. C. Scott, president and trustee, New York, N. Y. Safety device for relieving excessive pressures	568,680	Sept. 29	3452	826	76	1981
Henderson, Mary F., Washington, D. C. Bicycle-saddle	572,163	Dec. 1	123	29	77	1301
Henderson, Mary F., Washington, D. C. Bicycle-saddle	572,164	Dec. 1	124	29	77	1301
Henderson, Walker G. (See Rodd, William J., assignor.)						
Henderson, William, Trammere, assignor to J. and J. Bibby, Liverpool, England. Machine for separating seed from lint or fiber	560,499	May 19	2110	482 483	75	1139
Henderson, William, and O. A. Morse, New York, N. Y., assignors to themselves, and H. Stockdale, Newark, N. J. Display-rack	569,715	Oct. 20	1769	420	77	362
Henderson, William D., Waterbury, Conn. Music-holder	565,897	Aug. 18	1730	424	76	975
Hendey, Henry J. (See Beach, Milo D., assignor.)						
Hendley, Marion J. (See Belcher and Hendley.)						
Hendrick, James P., Jr., Flemingsburg, Ky. Tooth-powder box	567,942	Sept. 15	2092	504	76	1700
Hendrick Manufacturing Company. (See O'Keefe, Edward J., assignor.)						
Hendrick, William B. W. (See Parker, Robert L., assignor.)						
Hendricks, Alvin B., St. Mary's, Ill. Regulating-socket for incandescent lamps	553,911	Feb. 4	207	43	74	543
Hendrickson, Edward A., Brooklyn, N. Y. Device for feeding salt to cattle	561,315	June 2	442	109	75	1456
Hendrickson, Joseph G. (See Charlier, Henri, assignor.)						
Hendrix, G. R., <i>et al.</i> (See McDonald, Robert, assignor.)						
Hendryx, Andrew B., New Haven, Conn. Crank for fishing-reels	556,540	Mar. 17	1938	452	74	1524
Hendryx, George. (See Padgett and Hendryx.)						
Heneage, Charles R. (See Dole, Charles P., assignor.)						
Henery, Alvan G., assignor of one-half to J. B. Naylor and A. A. Coulson, Malta, Ohio. Folding canopy-cover for vehicle-seats	573,974	Dec. 29	3412	818	77	1990
Hengen, Jacob, North Amherst, Ohio. Rock-drill	560,500	May 19	2112	483	75	1139
Henius, Max W., Brooklyn, N. Y. Means for and method of preventing corrosion of metals	572,678	Dec. 8	1034	251	77	1496
Henkel, Charles V., assignor to C. V. Henkel Company, New York, N. Y. Rubber-eraser holder	566,578	Aug. 25	2942	718	76	1224
Henkel, Gustav. (See Schmidt and Henkel.)						
Henlein, Siegmund, Frankfort-on-the-Main, Germany. Incandescent oil lighting	569,198	Oct. 13	825	193	77	173
Henley, Albert, Lawrence, Kans. Machine for manufacturing bale-ties	552,837	Jan. 7	634	155 156	74	119
Henley, Brown, Hillsville, Pa. Swivel-coupling	558,808	Apr. 21	2272	550 551	75	459
Henn, John, San Francisco, Cal. Bung for barrels	570,799	Nov. 3	690	158	77	766
Hennagis, Siles E., Ardal, Iowa. Gravity-motor	555,949	Mar. 10	800	192	74	1299
Henneböhle, Frank, Chicago, Ill. Back-pressure valve	572,296	Dec. 1	368	87	77	1349
Henneböhle, Frank, Chicago, Ill. Safety-valve	572,297	Dec. 1	369	87	77	1349
Hennei, George G. (See Ortmann, Ernst, assignor.)						
Hennessy, Patrick, San Francisco, Cal. Street-car fender	567,388	Sept. 8	1172	280 281	76	1509
Hennessy, Thomas, Excelsior Springs, Mo. Gas apparatus	569,716	Oct. 20	1771	420 421	77	363
Hennessy, Thomas, Grand Forks, N. D., assignor to American Incandescent Gas Company, Kansas City, Mo. Gas-generator	573,183	Dec. 15	1927	462 463	77	1684
Hennessy, William H., Chicago, Ill., assignor to American Bell Telephone Company, Boston, Mass. Telephone trunk-circuit	558,686	Apr. 21	2067	500	75	422
Hennicke, Charles A., Buffalo, N. Y. Vehicle	571,859	Nov. 24	2535	601	77	1171
Henning, Gustavus C., New York, N. Y. Roof-making appliance	559,132	Apr. 28	2880	694	75	592
Henning, Julius, assignor of two-thirds to A. and C. F. Stremel, Minneapolis, Minn. Fire-proof shutter	568,443	Sept. 29	2989	719	76	1895
Henny, Jacob, and A. Pederquist, Schenectady, N. Y., assignors to General Electric Company, of New York. Compound mold for forming incandescent-lamp bases	558,070	Apr. 14	1016	248	75	208
Henrich, Carl, Webb City, Mo. Load-indicator for railway-cars	565,271	Aug. 4	608	144	76	727
Henrici, William A. E., Chelsea, Mass. Ironing machine	556,820	Mar. 24	2399	564	74	1627
Henrici, William A. E., Chelsea, Mass. Neck and wrist band ironing machine	556,925	Mar. 24	2574	606	74	1660
Henrici, William A. E., Chelsea, Mass. Bosom-stretcher for shirt-ironing machines	568,850	Oct. 6	237	55	77	46
Henriod-Schweizer, Fritz, Hauterive, Switzerland. Petroleum-motor	555,373	Feb. 25	2798	655 656	74	1076
Henry, Edward, Jacksonville, Ill. Street-sprinkler	556,097	Mar. 10	1088	259	74	1350
Henry, Fred H., Wakefield, Mass. Car-seat	556,821	Mar. 24	2401	564	74	1627
Henry, Fred H., Wakefield, Mass. Car-seat	562,606	June 23	2704	654	75	1939
Henry, George A., assignor of one-third to W. B. Clerk, Wilmington, Del. Car-fender	569,457	Oct. 13	1265	298	77	255
Henry, George D., West Grove, Iowa. Screen	554,122	Feb. 4	597	134	74	613
Henry, George E., Terre Haute, Ind. Successive drive mechanism for machines in series	569,414	Oct. 13	1206	284	77	245
Henry H. Bell's Son's Company. (See Bell, Winslow M., assignor.)						
Henry Hiram F., Cleveland, Ohio. Distention-valve for musical instruments	572,799	Dec. 8	1259	304	77	1536
Henry, Hiram F., Cleveland, Ohio. Screw-driver	572,800	Dec. 8	1260	304	77	1536
Henry Huber Company. (See Beaumont, Thomas C., assignor.)						
Henry Huber Company. (See Boyle, James E., assignor.)						
Henry, Hughey M. (See Smith and Henry.)						
Henry, James H. (See Harding, Thomas, assignor.)						
Henry, John C., Westfield, N. J. Commutator for magneto-electric machines	554,063	Feb. 4	469	105	74	591
Henry, John C., Westfield, N. J. Electric railway-brake	555,862	Mar. 3	628	150	74	1245
Henry, John C., Westfield, N. J. Electric-railway system	560,285	May 19	1704	388	75	1067
Henry, John C., Westfield, N. J. Electric car	561,224	June 2	257	63, 64	75	1417
Henry, John C., Westfield, N. J. Electric car	561,225	June 2	260	64, 65	75	1418
Henry, John C., Westfield, N. J. Electric locomotive	562,398	June 23	2336	570	75	1870
Henry, John C., Westfield, N. J. Single-wire electric railway	569,827	Oct. 20	1954	465	77	396

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Henry, John C., Denver, Colo. Electric locomotive. (Reissue)	11,542	May 26	3156	{ 729 730	75	1351
Henry, John C., Denver, Colo. Electric locomotive. (Reissue)	11,543	May 26	3158	{ 730 731	75	1352
Henry, John C., Colorado Springs, Colo. Electric car-brake	564,195	July 21	1700	{ 397 398	76	345
Henry, John H., Brightwood, Mass. Countersinking-bit	554,443	Feb. 11	1153	268	74	735
Henry, John R., Homer City, Pa. Axle	562,467	June 23	2456	596	75	1892
Henry, John R., Homer City, assignor of one-half to W. A. Guthrie, Indiana, Pa. Breast-strap	554,690	Feb. 18	1578	371	74	832
Henry, John W., Paloma, Ill. Windmill	564,927	July 28	2950	703	76	591
Henry, William A., <i>et al.</i> (See Lemon and Bartlett, assignors.)						
Henry, William C., <i>et al.</i> (See Goetz, August C., assignor.)						
Henry, William C., assignor, by mesne assignments, to himself and H. S. Esch, Milwaukee, Wis. Automatic track-switch for electric railways	559,800	May 12	779	187	75	843
Henry, William K., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-check	558,071	Apr. 14	1018	248	75	208
Hensarling, Hiram J. (See Collard and Hensarling.)						
Hensel, Albert. (See Hensel, William L. and A.)						
Hensel, William L. and A., Allegheny, Pa. Folding box	561,708	June 9	1158	276	75	1615
Henshaw, Edwin, Clarinda, Iowa. Chimney collar or protector	555,093	Feb. 25	2308	548	74	983
Henson, Charles W., Bienville, La. Lock	556,629	Mar. 17	2073	485	74	1549
Henszey, William P., <i>et al.</i> (See McConnell, Jacob Y., assignor.)						
Henszey, William P., Philadelphia, Pa. Steam-locomotive	555,508	Mar. 3	40	10	74	1138
Henszey, William P., Philadelphia, Pa. Electric locomotive	561,395	June 2	585	147	75	1482
Henszey, William P., Philadelphia, Pa. Electric-locomotive truck	562,607	June 23	2705	{ 654 655	75	1939
Henszey, William P., Philadelphia, Pa. Truck	567,472	Sept. 8	1302	315	76	1535
Hentz, James W., Baltimore, Md. Safety-brake for fire-escapes	554,025	Feb. 4	411	90	74	580
Hentz, James W., Baltimore, Md. Letter-box	572,893	Dec. 8	1395	337	77	1564
Hentz, James W., Baltimore, Md. Safety street letter-box	573,220	Dec. 15	1994	480	77	1696
Henwood, Jane, <i>et al.</i> (See Henwood, John, assignor.)						
Henwood, John, assignor to J. Henwood, Philadelphia, and J. C. Martin, Portage, Pa. Button-shaping machine	556,748	Mar. 24	2267	{ 531 532	74	1603
Henze, Louis A., Detroit, Mich. Malt-drier	554,509	Feb. 11	1261	295	74	754
Hepburn, Emmet J., Franklin Square, Ohio. Coffee-pot	567,235	Sept. 8	871	208	76	1457
Hepburn, Lewis L., assignor to Marlin Fire Arms Company, New Haven, Conn. Magazine-firearm	560,032	May 12	1257	{ 282 283	75	933
Hepburn, Lewis L., assignor to Marlin Fire Arms Company, New Haven, Conn. Magazine-firearm	561,226	June 2	262	65, 66	75	1418
Hepburn, Sewell S., Oliver, Va. Apparatus for supporting and moving invalids	562,725	June 23	2904	{ 704 705	75	1976
Hepp, Daniel, Chicago, Ill. Workman's time-recorder	554,123	Feb. 4	598	{ 134 135	74	613
Hepp, Daniel, Chicago, Ill. Non-fillable bottle	556,974	Mar. 24	2656	624	74	1676
Hepp, Daniel, Chicago, Ill. Workman's time-recorder	561,316	June 2	443	{ 109 111	75	1456
Heppding, John G., Jersey City, N. J. Diamond-setting	554,870	Feb. 18	1889	444	74	891
Heppding, John G., Jersey City, N. J. Diamond-setting	554,871	Feb. 18	1890	445	74	891
Heppner, Frederick, New York, N. Y. Folding carriage	571,228	Nov. 10	1439	336	77	934
Herbelin, Alfred, Waco, Tex. Leg-protector	562,608	June 23	2706	655	75	1939
Herbers, Rudolph, Beardsley, Minn. Inside pipe-cutter	572,203	Dec. 1	183	45	77	1313
Herbert, Clinton S., <i>et al.</i> (See Rose, Preston B., assignor.)						
Herbert, George H., Anaconda, Mont. Strainer for air-brake hose-couplings	572,009	Nov. 24	2803	661	77	1222
Herbert, Wesley F., assignor of one-half to E. E. Hanna, Salem, Ohio. Toughening, chilling, and cleaning tin-plate	567,830	Sept. 15	1915		76	1667
Hercht, Pauline B., Elizabeth, N. J. Cycling-skirt	567,979	Sept. 22	2166	{ 521 522	76	1727
Herder, John M., Indianapolis, Ind. Coupling for hose of air-brakes	558,174	Apr. 14	1180	{ 287 288	75	241
Herdman, Frank E., Winnetka, Ill. Elevator-door attachment	557,204	Mar. 31	3079	738	74	1776
Herdman, Frank E., Winnetka, Ill. Automatic door opening or closing device for elevators	559,528	May 5	305	73, 74	75	741
Herdman, Frank E., Winnetka, Ill. Elevator	560,210	May 19	1591	360	75	1048
Herdman, Frank E., Winnetka, Ill. Elevator	560,211	May 19	1593	{ 360 361	75	1048
Herdman, Frank E., Winnetka, Ill. Regulating admission of current to motors	567,714	Sept. 15	1707	410	76	1626
Herdman, Frank E., Winnetka, Ill. Construction and operation of circuits for electric motors	568,566	Sept. 29	3219	{ 775 776	76	1936
Herdman, Frank E., Winnetka, Ill. Electric elevator	568,567	Sept. 29	3223	{ 777 778	76	1937
Herdman, Frank E., Winnetka, Ill. Elevator-motor-controlling device	568,568	Sept. 29	3228	{ 778 779	76	1938
Herdman, Frank E., Winnetka, Ill. Brake mechanism for electric elevators	568,569	Sept. 29	3230	779	76	1938
Herdman, Frank E., Winnetka, Ill. Brake mechanism for electric elevators	568,570	Sept. 29	3232	779	76	1939
Herdman, Frank E., Winnetka, Ill. Brake mechanism for electric elevators	568,571	Sept. 29	3235	780	76	1939
Herdman, Frank E., Winnetka, Ill. Door opening or closing apparatus for elevators	570,476	Nov. 3	64	15, 16	77	650
Herdman, Frank E., Indianapolis, Ind. Elevator	560,208	May 19	1586	359	75	1046
Herdman, Frank E., Indianapolis, Ind. Elevator	560,209	May 19	1589	359	75	1047
Herfurth, Gustav, Philadelphia, Pa. Fan attachment for rocking-chairs	569,497	Oct. 13	1335	314	77	268
Herfurth, Gustav R., assignor to P. Schlossmann, Philadelphia, Pa. Straight-knitting machine	556,749	Mar. 24	2270	{ 532 533 534 535 536	74	1604
Herhold, William H., Chicago, Ill. Wood rim for cycles	561,166	June 2	164	42	75	1398
Hering, Otto. (See Kreinberg, Friedrich W., assignor.)						
Herkomer, Hubert, and H. T. Cox, Bushey, England. Preparing artistic printing-surfaces	556,975	Mar. 24	2658		74	1676
Herlitz, Robert. (See Hibberd and Herlitz.)						
Herman, Albert R., <i>et al.</i> (See Rolfsen, Rolf J., assignor.)						
Herman, Charles C. (See Chavez and Herman.)						
Herman, Frank J. (See Pulver, Andrew J., assignor.)						
Herman, Frederick, Martinsville, Miss. Switch	563,376	July 7	243	55	76	49

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Herman, George J., Jr., Colesburg, Iowa. Automatic wagon-brake	552,959	Jan. 14	879	213	74	178
Herman, John M., Scotia, Nebr. Device for operating whips	570,800	Nov. 3	691	158	77	766
Hermann, Martin H. W., Altona, Germany. Valve for cisterns, &c	552,998	Jan. 14	941	228	74	190
Hermans, Charles, and C. G. Snead, Louisville, Ky. Feed-box	564,788	July 28	2713	644	76	547
Hermite, Eugene, assignor of two-thirds to E. J. Paterson and C. F. Cooper, London, Eng- land. Apparatus for electrolyzing chlorid solutions	553,464	Jan. 21	1754	418	74	356
Hermite, Eugene, assignor of two-thirds to E. J. Paterson and C. F. Cooper, London, Eng- land. Apparatus for electrolyzing chlorid solutions	553,465	Jan. 21	1755	419	74	356
Hernandez, Arthur E., Brooklyn, N. Y. Mailing-case	562,896	June 30	3228	780	75	2056
Herne, William, assignor of one-half to J. H. Walburn, Rochester, N. Y. Gate or guard for lift-bridges	560,501	May 19	2113	483	75	1139
Herning, A. (See Randall, Williams P., assignor.)						
Herold, Charles, Fort Worth, Tex. Barrel-washer	568,347	Sept. 29	2836	683	76	1867
Herr, Abraham S. (See Brickner and Herr.)						
Herr, Clarence M., Chicago, Ill. Combined wrench and lock for bicycles	556,976	Mar. 24	2659	624	74	1677
Herrburger, Joseph, Paris, France. Action for grand pianos	559,706	May 5	597	141	75	796
Herrburger, Joseph, Paris, France. Grand piano	571,163	Nov. 10	1338	312	77	916
Herreid, Peter T. (See Johnsen and Herreid.)						
Herreid, Thomas. (See Johnsen and Herreid.)						
Herreshoff, John B. F., Brooklyn, assignor to Nichols Chemical Company, New York, N. Y. Roasting-furnace	556,750	Mar. 24	2280	536	74	1606
Herrick, Albert B., Bayonne, N. J., assignor to General Incandescent Arc Light Company, New York, N. Y. Snap-switch	556,185	Mar. 10	1256	293	74	1381
Herrick, Albert B., Jersey City, N. J., assignor to General Incandescent Arc Light Com- pany, New York, N. Y. Snap-switch	570,172	Oct. 27	2553	607	77	523
Herrick, Frank A., Jackson, Mich. Shaving-cabinet	560,266	May 19	1705	388	75	1067
Herrick, Frank A., Jackson, Mich. Curtain pole and fixture	562,726	June 23	2906	705	75	1976
Herrick, Robert F. (See Methven, David T., assignor.)						
Herrick, Robert F., trustee. (See Little, Charles H., assignor.)						
Herriman, William C., Roads, Mo. End-gate and fastening device therefor	563,173	June 30	3724	892	75	2155
Herring, Henry M., assignor to F. S. Gilbert, North Attleborough, Mass. Checkrein-fas- tener	571,830	Nov. 24	2485	589	77	1162
Herring, Telemachus J., Savannah, Tenn. Fifth-wheel	554,268	Feb. 11	846	194	74	676
Herrington, Marshall, New York, N. Y. Cartridge	566,315	Aug. 25	2459	602	76	1132
Herrling, Alfred, Jersey City, N. J. Means for sounding combs	572,055	Nov. 24	2888	621	77	1238
Herrmann, Albert, Höchst-on-the-Main, Germany. Blue coloring-matter	567,567	Sept. 8	1454	76	1563	
Herrmann, Carl M., assignor to Actien-Gesellschaft für Glas Industrie, vormals Friedr. Siemens, Dresden, Germany. Twin furnace for enameling and heating without muffles	573,975	Dec. 29	3414	818	77	1991
Herrmann, Rinehart I., Covington, Pa. Fire-escape	560,713	May 26	2532	582	75	1233
Herrmann, William P. (See Claxton, Langley, assignor.)						
Herron, Fred. (See Herron, Harry P., assignor.)						
Herron, Harry P., Los Angeles, Cal., assignor of one-half to F. Herron, Worthington, Minn. Toboggan	571,665	Nov. 17	2177	524	77	1085
Herron, Mary E., Oskaloosa, Iowa. Garment-supporter	569,919	Oct. 20	2105	501	77	424
Herschel, Herman R., assignor to R. Herschel Manufacturing Company, Peoria, Ill. Har- row-disk sharpener	552,999	Jan. 14	941	228	74	190
Herscher, Charles, Paris, France. Disinfecting apparatus	555,700	Mar. 3	367	85	74	1195
Hersey-Atwood Heater Company. (See Hersey, George H., assignor.)						
Hersey, George H., Newburyport, Mass. Shifting rail for top-carriages	556,977	Mar. 24	2660	624	74	1677
Hersey, George H., assignor to Hersey-Atwood Heater Company, Clifton, N. J. Boiler	554,872	Feb. 18	1891	445	74	891
Hersey Manufacturing Company. (See Hood, Freeman F., assignor.)						
Hersey Manufacturing Company. (See Tilden, James A., assignor.)						
Hershaw, Erastus F., Abingdon, Ill. Hanger for lamps	563,232	June 30	3832	918	75	2174
Hershberger, Daniel, Idaville, assignor to J. Larway, Logansport, Ind. Artificial leg. (Reissue)	11,522	Jan. 28	2371	565	74	486
Hershey, Martin E., et al. (See Marshbank, Andrew J., assignor.)						
Herstrom, Martin, and W. A. Grandjean, Denver, Colo. Car-replacer	553,818	Jan. 28	2366	563	74	486
Hertert, Lucien R., Pierce, Nebr. Horse-detacher	552,706	Jan. 7	360	94	74	70
Herting, Bertha. (See Heinecke, Hermann, assignor.)						
Hervais, Emile. (See Martin, Hervais, and Loppé.)						
Herz, Alfred, New York, N. Y. Broiler	570,754	Nov. 3	620	143	77	752
Herz, Ernst. (See Hartfuss and Herz.)						
Herza, Joseph T., Ridgeland, Ill. Hole-boring machine	556,349	Mar. 17	1576	369	74	1456
Herzberg, Albert, assignor of one-half to R. Holtkötter, Berlin, Germany. Knapsack-car- rier	571,593	Nov. 17	2060	493	77	1062
Herzberg, Martin. (See Blank, Israel, and Herzberg.)						
Herzberg, Martin, A. Blank, and A. Israel, assignors to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Black azo dye	561,709	June 9	1159	75	1615	
Herzberg, Wilhelm, and H. Heimann, assignors to Actien-Gesellschaft für Anilin Fabrika- tion, Berlin, Germany. Red dye of rosindulin series	567,473	Sept. 8	1303	76	1535	
Herzfeld, Albert, Halle-on-the-Saale, Germany. Ball grinding-mill	569,828	Oct. 20	1955	466	77	326
Herzog Electric Appliance Company. (See Herzog and Wheeler, assignors.)						
Herzog, Felix B., New York, N. Y. Circuit for latent-signal transmitters	560,212	May 19	1595	361	75	1049
Herzog, Felix B., and S. S. Wheeler, New York, N. Y.; said Wheeler assignor to said Her- zog. Electric signaling apparatus	573,221	Dec. 15	1996	480	77	1696
Herzog, Felix B., and S. S. Wheeler, New York, N. Y., assignors, by mesne assignments, to Herzog Electric Appliance Company, of New York. Electric signaling apparatus	573,591	Dec. 22	2690	639	77	1842
Herzog, Felix B., and S. S. Wheeler, New York, N. Y.; said Wheeler assignor to said Her- zog. Electric signaling apparatus	573,592	Dec. 22	2696	640	77	1843
Hess, George A. (See Raverot and Hess.)						
Hess, Henry, Hamilton, Ohio. Shaft-coupling	566,980	Sept. 1	433	102	76	1363
Hess, Henry, assignor to Niles Tool Works Company, Hamilton, Ohio. Metal-planing ma- chine	570,093	Oct. 27	2423	575	77	498
Hess, Myer S., Baltimore, Md. Shoe-salesman's stool	556,186	Mar. 10	1258	293	74	1381
Hess, Wendell, Jr., Troy, N. Y. Ironing-machine	570,397	Oct. 27	3010	712 713	77	607
Hess, William T., Grand Rapids, Mich. Carpet-sweeper	555,863	Mar. 3	630	151	74	1246
Hessels, Amalie. (See Hessels, Anthony, assignor.)						
Hessels, Anthony, assignor to A. Hessels, New York, N. Y. Truss	567,568	Sept. 8	1455	349	76	1563
Hessemer, Frederick, and C. S. Smith, Philadelphia, Pa. Burglar-alarm	570,755	Nov. 3	621	143	77	752
Hessenbruch, Hermann, Philadelphia, Pa. Safety-razor	554,673	Feb. 18	1892	445	74	891
Heston, William. (See Campbell, Hugh M., assignor.)						
Heston, William, assignor to Homestead Manufacturing Company, Limited, Homestead, Pa. Valve	560,913	May 26	3018	695	75	1325

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Heston, William, assignor to Homestead Manufacturing Company, Limited, Homestead, Pa. Valve	560,994	May 26	3019	696	75	1326
Hetherington, John H., Milwaukee, Wis., assignor, by mesne assignments, to New Process Food Company, of Wisconsin. Extract of meat and making same	554,269	Feb. 11	847		74	676
Hetherington, John H., Milwaukee, assignor, by mesne assignments, to W. Meadows, Burlington, Wis. Food compound and making same	554,366	Feb. 11	1012		74	708
Hetlesæter, Olaf, Milwaukee, Wis. Ditching-machine	561,939	June 9	1561	379	75	1690
Hetlesæter, Olaf, Milwaukee, Wis. Steam shovel, ditching-machine, and dredge	563,857	July 14	1075	254	76	216
Hetzel, George T., Allegheny, Pa. Caster	556,978	Mar. 24	2661	624	74	1677
Heuermann, John, Oak Park, Ill. Road-grader	556,313	Mar. 10	1511	351	74	1429
Heusch, Anton, Chicago, Ill., assignor to Warder, Bushnell & Glessner Company, Springfield, Ohio. Grain-binder	554,691	Feb. 18	1579	371	74	832
Heusch & Söhne, Aug. (See Finne, Theodor, assignor.)						
Hewes, Henry M. (See Nason, Joseph H., assignor.)						
Hewes, James E., Philadelphia, Pa. Trolley for electric cars	567,474	Sept. 8	1304	316	76	1535
Hewes, James E., Philadelphia, Pa. Electric furnace	572,636	Dec. 8	965	232 233	77	1482
Hewes, Virgil H. (See Terry, John W., assignor.)						
Hewitt, Herbert H., Buffalo, N. Y. Side frame for car-trucks	571,522	Nov. 17	1938	462 463	77	1042
Hewitt, Herbert H., Buffalo, N. Y. Side frame for car-trucks	571,523	Nov. 17	1940	463	77	1042
Hewitt, Herbert H., Buffalo, N. Y. Car-truck	571,524	Nov. 17	1941	463 464	77	1042
Hewitt, Herbert H., Buffalo, N. Y. Making side frames for car-trucks	571,525	Nov. 17	1943	464	77	1043
Hewitt, Horace L., Indianapolis, Ind. Mail-discharging apparatus	552,577	Jan. 7	126	35	74	26
Hewitt, Lewis H., Locke, N. Y. Automatic vehicle-brake	558,175	Apr. 14	2182	288	75	241
Hewitt, Melvin H., Elmira, N. Y. Parallel-ruler	562,298	June 16	2169	527	75	1823
Hewlett, Alfred M., Kewanee, Ill. Pipe-manufacturing apparatus	552,905	Jan. 14	786	190 191	74	160
Hewlett, Edward M. (See Martin and Hewlett.)						
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company, of New York. Automatic circuit-breaker	567,137	Sept. 8	723	169	76	1431
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company, of New York. Switch	573,146	Dec. 15	1867	450	77	1672
Hewlett, Edward M., and W. B. Potter, Schenectady, N. Y., assignors to General Electric Company, of New York. Three-wire electric system	554,270	Feb. 11	848	194	74	677
Hewson, Edward M., assignor of one-half to N. E. Lytle, Mechanicsville, N. Y. Cock and coupling for barrels, &c.	568,572	Sept. 29	3240	780	76	1941
Hewson, Robert, San Francisco, Cal. Steam-turbine	570,756	Nov. 3	622	143	77	752
Hey, George W., Syracuse, N. Y. Mechanical movement	569,132	Oct. 6	711	167	77	135
Heydebrand Safety Window Company. (See Heydebrand und der Lasa, Ferdinand C. von, assignor.)						
Heydebrand und der Lasa, Ferdinand C. von, assignor to Heydebrand Safety Window Company, New York, N. Y. Window	555,162	Feb. 25	2421	574	74	1006
Heydebrand und der Lasa, Ferdinand C. von, assignor to Heydebrand Safety Window Company, New York, N. Y. Window	563,765	July 14	898	214	76	184
Heyden, F. von Nachfolger. (See Lederer, Leonhard, assignor.)						
Heyden, F. von Nachfolger. (See Seifert, Bruno R., assignor.)						
Heydrich, Raffloer & Company. (See Edge, Horace L., assignor.)						
Heydrick, William H. H., Philadelphia, Pa. Shock-binder	567,389	Sept. 8	1175	281	76	1511
Heydrick, William H. H., assignor of one-half to C. R. Blackall, Philadelphia, Pa. Car-fender	554,064	Feb. 4	470	105	74	591
Heyer, Charles A., assignor to E. & T. Fairbanks & Company, St. Johnsbury, Vt. Scale-bearing	555,768	Mar. 3	469	112	74	1215
Heyl, Charles W. (See Lentz, Henry P., assignor.)						
Heyl, Edmund W. (See Patterson and Heyl.)						
Heymann, Bernhard, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Blue dye	560,795	May 26	2677		75	1260
Heyn, James, et al. (See Knobloch, Johann F. R., assignor.)						
Heyn, Johannes, Stettin, Germany. Saw-hanging	570,094	Oct. 27	2425	575	77	498
Heyn, Sabina, Omaha, Nebr. Opera-glass shield	572,637	Dec. 8	968	233	77	1482
Heys, Alfred J., Manchester, England. Stocking-retainer	563,961	July 14	1278	299	76	253
Heys, John J., assignor of one-half to M. V. Bresnehan, Lynn, Mass. Sole-cutting machine	555,864	Mar. 3	631	151 152	74	1246
Heys, William G. (See Rowe and Heys.)						
Heysinger, Isaac W., Philadelphia, Pa. Extra-charging device for aerated-water fountains	562,823	June 30	3091	749	75	2029
Heysinger, Isaac W., Philadelphia, Pa. Wardrobe-shelf bracket	564,519	July 21	2230	523	76	442
Heysinger, Isaac W., Philadelphia, Pa. Detachable button	568,111	Sept. 22	2432	584	76	1774
Heyward, James F. (See Keilholtz, Pierre O., assignor.)						
Heyward, Julius H., Greenville, S. C. Type-writer cabinet	558,388	Apr. 14	1547	377 378	75	309
Heywood, Arthur and A. T., Chicago, Ill. Tool for mending punctures in pneumatic tires	570,664	Nov. 3	463	109	77	725
Heywood, Arthur T. (See Heywood, Arthur and A. T.)						
Heywood Brothers & Co. (See Watkins, Edward G., assignor.)						
Heywood Brothers & Co. (See Watkins, Gardner A. and E. G., assignors.)						
Hibbard, Angus S., Chicago, Ill. Party-telephone-line apparatus	555,725	Mar. 3	407	94	74	1203
Hibbard, Maury W., assignor to W. W. Sprague Company, Chicago, Ill. Tramway-switch	569,199	Oct. 13	826	193 194 195	77	173
Hibbard, William W., Rochester, N. Y. Electric switch	571,119	Nov. 10	1266	294	77	902
Hibbard, William W., assignor to Standard Electric Signal Company, Rochester, N. Y. Electric signal-box						
Hibberd, Isaac N., and R. Herlitz, Port Costa, Cal. Preparing wheat for cleaning	571,441	Nov. 17	1796	429	77	1016
Hibbert, Decatur H., Media, Pa. Fish and crab net	568,681	Sept. 29	3453	826	76	1981
Hibbert, Decatur H., Media, Pa. Fish and crab net	563,486	July 7	428	99	76	82
Hibbert, Decatur H., Wallingford, Pa. Oyster-bed	566,757	Sept. 1	44	11, 12	76	1288
Hibbs, Weston J. (See Pedrick, Howard A., assignor.)						
Hibshman, Henry E., assignor of one-half to W. H. Moore, New York, N. Y. Musical instrument	572,010	Nov. 24	2804	661	77	1222
Hick, Robert H. (See Blair, Wilfred W., assignor.)						
Hick, Robert H., Burton, Ohio. Cultivator	555,163	Feb. 25	2422	574	74	1006
Hick, Robert H., assignor of one-half to Burton Handle Company, Burton, Ohio. Garden-plow	558,492	Apr. 21	1739	421	75	362
Hickey, B. M., et al. (See Lindley, Zachary M., assignor.)						
Hickey, Thomas W., assignor to W. F. Hogg, H. P. Happoldt, and J. E. Cunningham, Worcester, Mass. Comb-dabbing mechanism	570,095	Oct. 27	2427	576	77	498

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Hickman, Edgar M., assignor to Chattanooga Plow Company, Chattanooga, Tenn. Subsoil-plow	565,352	Aug. 4	736	176	76	753
Hickok, Franklin K., New Haven, Conn. Corset	570,398	Oct. 27	3013	713	77	607
Hicks, Bohn C., assignor to Rex Cycle Company of Chicago, Chicago, Ill. Velocipede	557,387	Mar. 31	3401	817	74	1837
Hicks, Bohn C., assignor to Rex Cycle Company of Chicago, Chicago, Ill. Velocipede	557,388	Mar. 31	3403	817	74	1838
Hicks, Bohn C., assignor to Rex Cycle Company, Chicago, Ill. Velocipede	561,710	June 9	1160	276	75	1615
Hicks, George, assignor of one-half to G. M. Lattig, Warsaw, Minn. Combined currycomb and singeing device	559,580	May 5	389	94	75	758
Hicks, George C., Boston, Mass. Heat-insulator	570,634	Nov. 3	399	95	77	711
Hicks, Henry C., Chicago, Ill. Traction-engine	557,329	Mar. 31	3300	{ 791 792 }	74	1817
Hicks, Henry C., Chicago, Ill. Vehicle-wheel	568,112	Sept. 22	2435	584	76	1775
Hicks, James P., St. Johnsbury, Vt. Wagon-oiling device	559,329	Apr. 28	3247	783	75	660
Hicks, Louis H., Lyons, Ind. Skid-block	561,396	June 2	586	147	75	1483
Hicks Manufacturing Company. (See Hicks, Simeon J., assignor.)						
Hicks, Mary A., Hartford, Conn. Umbrella attachment for bicycles	572,298	Dec. 1	370	88	77	1350
Hicks, Oliver H., Chicago, Ill. Electric door-operating apparatus	554,818	Feb. 18	1797	422	74	874
Hicks, Oliver H., Chicago, Ill. Door-guard	565,206	Aug. 4	473	113	76	704
Hicks, Oliver H., Chicago, Ill., assignor to Morgan Envelope Company, Springfield, Mass. Roll-paper fixture	562,533	June 23	2554	621	75	1911
Hicks, Oliver H., Chicago, Ill., assignor to Morgan Envelope Company, Springfield, Mass. Fixture for holding roll-paper	564,688	July 28	2529	598	76	515
Hicks, Oliver H., assignor to Hicks-Troy Electric Door Company, Chicago, Ill. Electric mat	564,485	July 21	2181	511	76	433
Hicks, Oliver H., assignor to Hicks-Troy Electric Door Company, Chicago, Ill. Door-operating apparatus	572,299	Dec. 1	371	88	77	1350
Hicks, Oliver H., assignor to Hicks-Troy Electric Door Company, Chicago, Ill. Door-operating apparatus	572,300	Dec. 1	372	88	77	1350
Hicks, Oliver H., and R. F. Troy, Chicago, Ill. Electric door-operating apparatus	554,819	Feb. 18	1798	422	74	875
Hicks, Oliver H., and R. F. Troy, assignors to Hicks-Troy Electric Door Company, Chicago, Ill. Electric door-operating apparatus	572,301	Dec. 1	374	{ 88 89 90 91 }	77	1350
Hicks, Sarah E., <i>et al.</i> (See Lemon and Bartlett, assignors.)						
Hicks, Simeon J., Chicago, Ill. Confectionery-machine	573,463	Dec. 22	2476	587	77	1801
Hicks, Simeon J., Chicago, Ill., assignor to Hicks Manufacturing Company, of Illinois. Confectionery-machine	572,423	Dec. 1	603	143	77	1392
Hicks, Thomas H., Detroit, Mich. Electrical construction, regulation, and distribution	566,860	Sept. 1	210	49	76	1323
Hicks, Thomas H., Detroit, Mich. Oscillating reciprocating tripolar electric motor	568,947	Oct. 6	393	88, 89	77	75
Hicks-Troy Electric Door Company. (See Hicks, Oliver H., assignor.)						
Hicks-Troy Electric Door Company. (See Hicks and Troy, assignors.)						
Hicok, Hiram A. and M. M., Viroqua, Wis. Jar or bottle	570,096	Oct. 27	2428	576	77	499
Hicok, Mary M. (See Hicok, Hiram A. and M. M.)						
Hien, Phillip, Chicago, Ill. Car-coupling	555,950	Mar. 10	801	192	74	1299
Hien, Phillip, Chicago, Ill. Car-coupling	571,044	Nov. 10	1119	262	77	875
Higgin, Henry, Newport, Ky. Curtain-fastener for carriages	567,138	Sept. 8	795	169	76	1431
Higginbottom, James, Liverpool, England. Sieving, separating, and purifying apparatus	556,148	Mar. 10	1184	277	74	1369
Higgins, Campbell P., Roselle, N. J. Wrought-metal header and means for manufacturing same	553,912	Feb. 4	209	43, 44	74	543
Higgins, Campbell P., Roselle, N. J. Machine for flanging manholes in boilers, &c.	558,072	Apr. 14	1020	249	75	209
Higgins, Charles L., Springfield, Mass. Match-box	553,030	Jan. 14	985	239	74	198
Higgins, Charles L., Montreal, Canada. Manufacture of rubber soled footwear	558,279	Apr. 14	1359	332	75	274
Higgins, Charles M., Brooklyn, N. Y. Bottle cap and brush	571,367	Nov. 17	1676	397	77	993
Higgins, Edward E., Crow Summit, W. Va. Gate	556,887	Mar. 24	2511	592	74	1649
Higgins, Frank. (See Bly, John, assignor.)						
Higgins, Fred T. (See Fowler and Higgins.)						
Higgins, Frederick H. W., London, England. Type-printing telegraphic apparatus	570,852	Nov. 3	738	181	77	785
Higgins, George T., Milwaukee, Wis. Head-rest	573,147	Dec. 15	1869	450	77	1673
Higgins, Henry B. (See Hunter and Higgins.)						
Higgins, John F. (See Young, Robert J., assignor.)						
Higgins, Joseph C., assignor of one-fourth to F. Norris, Pittsburgh, Pa. Apparatus for manufacturing axles, &c., from iron or steel	567,139	Sept. 8	726	170	76	1431
Higgins, Milton P. (See Alden and Higgins.)						
Higgins, Milton P., and G. I. Alden, Worcester, Mass. Truing-machine for emery-wheels	566,908	Sept. 1	293	68, 69	76	1339
Higgins, Thomas, assignor of one-fourth to F. Norris, Pittsburgh, Pa. Apparatus for manufacturing axles, &c., from iron or steel	572,204	Dec. 1	185	45, 46	77	1313
Higgs, W. H. (See Dodge, John S., assignor.)						
High, James P., Nashville, Ark. Air-brake signal	555,809	Mar. 3	532	129	74	1227
Higham, Dantel, Boston, Mass. Electric-arc lamp	562,609	June 23	2707	655	75	1939
Higham, Howard H., Philadelphia, Pa. Cork	566,683	Aug. 25	3099	757	76	1254
Highland Foundry Company. (See Elliott, Percival W., assignor.)						
Hight, Archey C., Milton, Tenn. Car-coupling	555,445	Feb. 25	2936	697	74	1101
Hightower, J. P., <i>et al.</i> (See Dean, John R., assignor.)						
Higinbotham, Elmer E., Chicago, Ill. Flexible safety-guard for street-cars	561,397	June 2	588	147	75	1483
Higley, John P., St. Louis, Mo. Window	558,809	Apr. 21	2274	551	75	460
Higley Sawing and Drilling Machine Company. (See Hammond, Wilberforce B., assignor.)						
Higson, James. (See Riffe, John A., assignor.)						
Hilbert, Baptiste, Worcester, Mass. Loom	561,110	June 2	56	15	75	1378
Hildburgh, Leo W., New York, N. Y. Telegraph	571,948	Nov. 24	2701	639	77	1204
Hilde, Hermann, Rosswein, Germany. Means for working glass	567,236	Sept. 8	872	{ 208 209 }	76	1458
Hildebrandt, Rudolph, assignor to A. Song, Chicago, Ill. Binder	570,399	Oct. 27	3014	714	77	607
Hilder, Charles F., London, England. Type-justifying machine	559,707	May 5	598	142	75	796
Hilder, Charles F., London, England. Type-justifying mechanism	565,749	Aug. 11	1471	{ 359 360 }	76	909
Hildreth, Charles F. (See Gipe and Hildreth.)						
Hilgers, Jeannette. (See Louis, Julius, assignor.)						
Hilgert, Mathew, Salt Lake City, Utah. Ventilated shoe	568,068	Sept. 22	2347	566	76	1758
Hill, Alexander S., Pierre, S. D. Clamp	563,591	July 7	601	140	76	113
Hill, Benjamin A., Hartford, Conn. Extension-ladder	565,750	Aug. 11	1473	360	76	909
Hill, Burton W., Somerville, Mass. Valve	573,656	Dec. 22	2843	670	77	1871
Hill, Christian C., Chicago, Ill., assignor to Excelsior Needle Company, Torrington, Conn. Machinery for manufacturing bicycle-spokes, wire, or other like articles	562,825	June 30	3096	750	75	2030

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Hill, Dan L., Keene, N. H. Machine for making wire handles	554,444	Feb. 11	1154	268 269	74	735
Hill, Ebenezer, South Norwalk, Conn. Compound steam-engine	566,580	Aug. 25	2944	718 719	76	1225
Hill, Ebenezer, South Norwalk, Conn. Air-compressor	571,971	Nov. 24	2738	647 648	77	1211
Hill, Edwin A., Jackson, Miss. Door	552,578	Jan. 7	128	35	74	26
Hill, Eugene F., Auburn, N. Y. Side-bar buggy	555,769	Mar. 3	470	112	74	1215
Hill, Eugene F., Auburn, N. Y. Bow for vehicle-tops	557,581	Apr. 7	100	25	75	20
Hill, Francis, Sandusky Co., Ohio. Match-lighting attachment for lanterns, &c	564,997	Aug. 4	66	15	76	630
Hill, Frederick B., assignor of one-half to R. D. Brett, London, England. Treatment of sewage and ventilation of drains	555,006	Feb. 18	2130	507 508	74	935
Hill, Frederick W., assignor to Chandler Adjustable Chair and Desk Company, Boston, Mass. Adjustable top for desks	559,330	Apr. 28	3247	784	75	661
Hill, Hally P., Washington, D. C., assignor of one-half to G. P. Phillips, Evansville, Ind. Street-lamp hanger	570,801	Nov. 3	693	158	77	766
Hill, Harrison A., Huntsville, Kans. Post-brace	568,948	Oct. 6	396	89	77	76
Hill, Henry, and A. L. Adams, London, England. Magazine-camera	555,865	Mar. 3	635	152 153	74	1247
Hill, Henry D. (See Hill, William P. and H. D.)						
Hill, Irwin H. (See Cross and Hill.)						
Hill, John E. (See Tivy and Hill.)						
Hill, John T., Cleveland, Ohio. Dry-plate valve for automatic sprinkler systems	570,018	Oct. 27	2277	541	77	468
Hill, Josephus, Carbondale, Ill. Beehive	557,008	Apr. 7	512	124	75	97
Hill, Josephus, Carbondale, Ill. Attachment for beehives	565,353	Aug. 4	737	176	76	753
Hill, Loyal W., et al. (See Barrett, Alfred, assignor.)						
Hill, Myron F., Cambridge, Mass. Telephone-exchange	572,801	Dec. 8	1261	305	77	1537
Hill, Robert E. (See Hochholzer, Hill, and Riggs.)						
Hill, Robert N. (See Adkins, Stephen J., assignor.)						
Hill, Robert S., Detroit, Mich. Steam-engine	553,712	Jan. 28	2186	518 519	74	452
Hill, Samuel A., Philadelphia, Pa. Dredging-machine	554,510	Feb. 11	1262	295 296	74	755
Hill, Stephen. (See Bennett and Hill.)						
Hill, Sylvester P., and F. Van Winkle, Newark, N. J. Non-refillable bottle	572,302	Dec. 1	384	91	77	1352
Hill, Terelius A., Maryville, Tenn. Drive-gate	559,708	May 5	599	142	75	796
Hill, Thomas. (See Hunt and Walker, assignors.)						
Hill, Thomas, Jersey City, N. J. Dumping-wagon	561,398	June 2	589	148	75	1483
Hill, Thomas, Jersey City, N. J. Cart	570,400	Oct. 27	3015	714	77	608
Hill, Thomas, assignor to Smith-Hill Elevator Company, Quincy, Ill. Limitation-stop for elevators	563,036	June 30	3477	836	75	2108
Hill, Vinson V., and M. Holman, Norwood, Ga. Seed-planter and cultivator	567,098	Sept. 1	649	151	76	1405
Hill, William E., Kalamazoo, Mich. Log loader and turner	570,552	Nov. 3	214	56	77	677
Hill, William P. and H. D. St. Louis, Mo. Acetylene-gas generator	572,113	Dec. 1	30	8	77	1224
Hillard, Frederic W., Tottenville, N. Y. Type-writing machine	554,874	Feb. 18	1893	445 446	74	892
Hillebrand, Christian M., Lemars, Iowa. Sawing-machine	558,073	Apr. 14	1021	249	75	209
Hillebrand, Christian M., Lemars, Iowa. Sawing-machine	561,587	June 9	941	225	75	1573
Hilles & Jones Company. (See Jones, Henry C., assignor.)						
Hillhouse, Frank S., Kalamazoo, assignor to Valley City Siphon Company, Grand Rapids, Mich. Siphon	556,416	Mar. 17	1703	397	74	1481
Hillhouse, Georgiana R., New York, N. Y. Bicycle-lock	554,222	Feb. 4	754	172	74	643
Hilliard, Edward G. (See Follett, Edward P., assignor.)						
Hilliger, Georg, Berlin, Germany. Apparatus for burning coal-dust	558,875	Apr. 21	2324	581	75	482
Hilligoss, William J. (See Warner, William F., assignor.)						
Hilliker, John H., New York, N. Y. Curtain pole and hanger	563,592	July 7	602	140	76	113
Hillis, James H. (See Arthur, Christopher M., assignor.)						
Hillman, Jotham R., Shortsville, N. Y. Fruit-handling machine	562,824	June 30	3093	749 750	75	2030
Hillman, William, Coventry, England. Apparatus for manufacturing helically-coiled sheet- metal tubes	556,979	Mar. 24	2662	625	74	1677
Hills, Albert S., Springfield, Mass. Compression faucet and valve	568,405	Sept. 29	2926	704	76	1883
Hills, Charles W. (See George and Woodside, assignors.)						
Hillyear, Edgar C., Newport News, Va. Boat detaching and recovering apparatus	563,174	June 30	3726	692 693	75	2155
Hiltner, Lorenz. (See Nobbe and Hiltner.)						
Hilton, Albert B., New York, N. Y. Holder for tally-sheet and manifolding detachable sales-sheet systems	572,990	Dec. 15	1589	381	77	1619
Hilton, John W., assignor of one-half to C. R. Mullen, Cincinnati, Ohio. Braiding-machine	573,411	Dec. 15	2336	558	77	1757
Hilton, Robert W., Pawtucket, R. I. Doffer-comb for carding-engines	559,285	Apr. 28	3161	764	75	645
Hilyard, James S., Columbus, Ohio. Washing-machine	570,853	Nov. 3	791	182	77	785
Himebaugh, Joseph M. (See Van Cise, William C., assignor.)						
Himler, Joseph G., Latrobe, Pa. Plunger-valve	552,707	Jan. 7	361	94	74	70
Himmelwright, Abraham L. A., Middletown, Conn. Bottle-stopper	561,787	June 9	1305	313	75	1642
Hinchliffe, Daniel, and A. D. Edes, Plymouth, Mass. Apparatus for operating electric switches	558,687	Apr. 21	2071	501	75	423
Hinchliffe, William, Huntsville, Ala. Penholder	572,894	Dec. 8	1396	338	77	1565
Hinchman, George N., Cuyahoga Falls, Ohio. Friction-clutch	560,714	May 26	2534	582 583	75	1233
Hinchman, William A., Tarentum, Pa. Capsule	573,976	Dec. 29	3416	819	77	1091
Hinckley, Edmund A., Owego, N. Y. Telephone	564,196	July 21	1702	398	76	346
Hinckley, Henrietta R., Waterbury, Conn. Game apparatus	557,205	Mar. 31	3080	738	74	1776
Hinckley, Henrietta R., Waterbury, Conn. Doll-walker	569,333	Oct. 13	1069	253	77	221
Hinckley, Henry D., Hartford, Conn. Lock	563,925	July 14	1206	283	76	240
Hinckley, Henry D., Hartford, Conn. Lock-tumbler	563,926	July 14	1211	283	76	241
Hinckley, Henry D., assignor of one-half to H. N. Hinckley, Hartford, Conn. Electric- railway trolley	571,120	Nov. 10	1269	294	77	902
Hinckley, Howard N. (See Hinckley, Henry D., assignor.)						
Hinde & Dauch. (See Hinde, James J., assignor.)						
Hinde, James J., assignor to Hinde & Dauch, Sandusky, Ohio. Bottle-wrapper	563,962	July 14	1278	300	76	253
Hinden, Mathias J., assignor to J. King, Cleveland, Ohio. Tool for producing test-lens rings	562,183	June 16	1984	420	75	1788
Hindermeier, Louis, Mecosta, Mich. Potato-plow	567,475	Sept. 8	1308	316	76	1536
Hindes, Frank, San Francisco, Cal. Drip attachment for umbrellas	559,101	Apr. 28	2785	675	75	575

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Hine, James W., Jamestown, N. Y. Book-support	560,851	May 26	2781	638	75	1281
Hines, Harrison. (See Bradman and Hines.)						
Hines, William, Middletown, Conn. Hammock	572,424	Dec. 1	605	143	77	1393
Hink, J. F. (See White, Charles G., assignor.)						
Hinks, Harry D., Birmingham, England. Hurricane-lantern	572,895	Dec. 8	1397	338	77	1565
Hinman, Bertrand C., New York, N. Y., assignor to Gold and Bromine Separating Company, New York, N. Y., and West Virginia. Extracting gold	569,334	Oct. 13	1070	253	77	221
Hinman, Clement F., assignor to F. C. Austin, Chicago, Ill. Grading and ditching machine	557,125	Mar. 31	2917	698	74	1750
Hinman, George C., assignor to F. C. Austin, Chicago, Ill. Ditching and grading machine	554,875	Feb. 18	1903	446	74	893
Hinman, George C., assignor to F. C. Lum, New Haven, Conn. Perch-holder for bird-cages	562,468	June 23	2457	596	75	1892
Hinman, George C., assignor to F. C. Lum, New Haven, Conn. Set-screw fender	564,197	July 21	1703	398	76	346
Hinrichs, Edward A., and F. P. Bemis, Davenport, Iowa. Doll	564,563	July 21	2321	545	76	457
Hinsberg, Oscar, Geneva, Switzerland, assignor to Farbwerke, vormals Meister, Lucius & Brünig, Höchst-on-the-Main, Germany. Antipyrin mandelate and making same	569,415	Oct. 13	1208	-----	77	245
Hinsberg, Oscar, Geneva, Switzerland, assignor to Farbwerke, vormals Meister, Lucius & Brünig, Höchst-on-the-Main, Germany. Ester of alkoylamidophenols and making same	569,416	Oct. 13	1208	-----	77	245
Hinson, James A., Chicago, Ill. Draft-rigging for car-couplings	570,477	Nov. 3	67	16	77	650
Hinson, James A., Chicago, Ill. Car-coupling	571,229	Nov. 10	1442	337	77	935
Hinterberger, Joseph, Chicago, Ill. Metallic bush and bung for barrels	567,313	Sept. 8	1030	247	76	1485
Hioeth, Fredrik, Christiania, Norway. Wood-grinder	555,094	Feb. 25	2309	549	74	983
Hipolito, Espiridon, San José, Cal. Window	560,063	May 12	1318	295	75	944
Hipperling, Georg C. W. and W. A. D., Wandsbeck, Germany. Cycle	572,544	Dec. 8	796	190	77	1445
Hipperling, Wilhelm A. D. (See Hipperling, Georg C. W. and W. A. D.)						
Hipple, Torrence C., et al. (See Cramer, John, assignor.)						
Hirlimann, Charles J., Fort Lee, N. J. Electric battery	554,124	Feb. 4	602	136	74	614
Hirsch, Charles, assignor of one-half to S. L. Altman, Buffalo, N. Y. Hose-nozzle	570,757	Nov. 3	625	144	77	753
Hirsch, Ernst F. W., Radeberg, Germany. Chimney for incandescent gas-lamps	568,537	Sept. 29	3172	763	76	1928
Hirsch, Henry S., Philadelphia, Pa. Bicycle-lamp	565,272	Aug. 4	610	144	76	727
Hirsch, Jacob. (See Snively and Hirsch.)						
Hirsch, Jonas A., Watertown, Wis. Bicycle-support	567,980	Sept. 22	2168	522	76	1727
Hirsch, Kalman, assignor of one-half to C. I. Celler, New York, N. Y. Garbage-receptacle	567,390	Sept. 8	1177	281	76	1511
Hirsch, Raphael, Hanover, Germany. Envelop	564,247	July 21	1777	416	76	361
Hirsch, Robert, Milwaukee, Wis. Commutator-brush holder	557,678	Apr. 7	278	67	75	53
Hirschberg, Gustav, New York, N. Y. Cap	554,600	Feb. 11	1413	331	74	784
Hirschberg, Simon S., New York, N. Y. Cap	563,175	June 30	3730	693	75	2155
Hirschfeld, Georg, Berlin, Germany. Coin-freed apparatus	552,529	Jan. 7	43	13, 14	74	11
Hirschhorn, Jacob, Berlin, Germany. Lamp-stove	567,943	Sept. 15	2095	504	76	1701
Hirschler, Hélène R., assignor to J. Hayem & Co., Paris, France. Impregnating fabrics with antiseptic salts	564,928	July 28	2952	-----	75	591
Hirschheimer, Albert. (See Davis, Frank E., assignor.)						
Hirst, Charles S., Philadelphia, Pa., assignor to Exporters Locked Shell Oyster Company, of Virginia. Preserving bivalves	568,482	Sept. 29	3054	735	76	1907
Hirst, William, Trenton, N. J. Quick-action triple valve	563,766	July 14	899	215	76	185
Hirst, William, Trenton, N. J. Quick-action triple valve	564,073	July 14	1475	345	76	289
Hirt, Louis J., Brookline, Mass. Cable-railway grip	570,173	Oct. 27	2555	607	77	523
Hirt, Louis J., Brookline, Mass. Mechanism for cable-railways	570,635	Nov. 3	400	95	77	712
Hiscox, Gardner D., Brooklyn, N. Y., assignor to Sterling Supply Company, of New Jersey. Sanding-box for cars	558,688	Apr. 21	2072	501	75	423
Hise, George J., Chicago, Ill. Package-carrier for bicycles	571,132	Nov. 10	1295	301	77	907
Hise, John H., Oshkosh, Wis. Refrigerator	566,981	Sept. 1	435	102	76	1364
Hisley, John P., Syracuse, N. Y. Rope-tie	555,770	Mar. 3	471	112	74	1215
Hiss, William J. (See Tiff, Franklin D., assignor.)						
Hitchcock, Charles M., Utica, N. Y. Mud-guard for bicycles	574,032	Dec. 29	3507	838	77	2007
Hitchcock, David S., assignor to White Sewing Machine Company, Cleveland, Ohio. Clamp for bicycle-saddles	566,517	Aug. 25	2858	694	76	1208
Hitchcock, David S., assignor to White Sewing Machine Company, Cleveland, Ohio. Shaft-bearing	566,518	Aug. 25	2859	695	76	1208
Hitchcock, David S., assignor to White Sewing Machine Company, Cleveland, Ohio. Handle-bar for bicycles	566,581	Aug. 25	2946	719	76	1225
Hitchcock, Dexter, Norwalk, Conn. Car-fender	566,174	Aug. 18	2221	541	76	1071
Hitchcock, John, assignor of one-half to A. Hartley, Brooklyn, N. Y. Curtain-hanger	554,692	Feb. 18	1580	372	74	832
Hitchcock, John S., Oneida, N. Y. Scrubbing-machine	567,944	Sept. 15	2098	505	76	1701
Hitchcock, John S., Syracuse, N. Y. Scrubbing-machine	574,355	Dec. 29	4126	979	77	2120
Hitchcock Lamp Company. (See Bragger, John W., assignor.)						
Hitchcock, William E., et al. (See Waugh and Older, assignors.)						
Hitchcock, William F. (See Gray and Hitchcock.)						
Hitchings, George O. (See Munro and Hitchings.)						
Hitchings, Walter P., Waubay, S. D. Straw burning stove	569,557	Oct. 13	1451	343	77	290
Hitchner, Chester W., assignor to C. W. Parsons, Scranton, Pa. Automatic bake-oven	564,074	July 14	1478	346	76	290
Hitchon, Alfred, and W. E. Duckworth, Accrington, England; said Duckworth assignor to Howard & Bullough, Limited, same place. Appliance for carding-engines	568,197	Sept. 22	2576	620	76	1802
Hitchon, Edwin, Accrington, England. Spindle-support	554,514	Feb. 11	1267	297	74	756
Hite, John L., Johnstown, Pa. Fish-plate	569,156	Oct. 6	758	176	77	144
Hitt, Adrian, Jersey City, N. J. Hand-car	553,617	Jan. 28	2026	479	74	423
Hitt, Adrian, Jersey City, N. J. Oil-can	555,318	Feb. 25	2704	633	74	1058
Hitzert, Albert, assignor of one-half to Jackson & Church, Saginaw, Mich. Barrel-head machine	568,978	Oct. 6	445	99	77	86
Hixon, Edward. (See Simons and Hixon.)						
Hixon, Hiram W. (See Goodale and Hixon.)						
Hixon, Hiram W., Anaconda, Mont. Roasting, smelting, and converting plant	555,951	Mar. 10	803	193	74	1299
Hoag, George E., assignor of two-thirds to A. P. Fenn and A. Paalz, Tell City, Ind. Lumber-drier	554,271	Feb. 11	850	194	74	677
Hoagland, Ellery M., East Oakland, Cal. Well-casing spear	569,378	Oct. 13	1141	272	77	234
Hoagland, James. (See Sage, Chester A., assignor.)						
Hoak, George B., Pittsburg, Pa. Car-fender	572,753	Dec. 8	1181	284	77	1522

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Hoare, Timothy J. (See McCullough, Van Rensselaer and M., assignors.)						
Hobart, Frank G., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Friction-clutch	561,940	June 9	1565	379	75	1691
Hobart, Henry M., Boston, Mass., assignor to General Electric Company, of New York. Electrical transformer	567,237	Sept. 8	874	209	76	1458
Hobbs, Clarence W., Worcester, Mass. Adjustable cutter for cutting cardboard	553,526	Jan. 28	1871	443	74	395
Hobbs, Clarence W., Worcester, Mass. Machine for scoring cardboard	569,200	Oct. 13	828	195	77	174
Hobbs, Clarence W., and W. W. Johnston, Worcester, Mass. Adjustable cutter for scoring machines	566,753	Sept. 1	46	12	76	1288
Hobbs, Herbert W. (See Jackson, Uriah S., assignor.)						
Hobbs, John T., assignor to Cleveland Safety Gate Company, Cleveland, Ohio. Safety mechanism for operating elevator gates	571,442	Nov. 17	1797	429	77	1016
Hobbs, W. I. (See Waters and Clopton, assignors.)						
Hobbs, William J., deceased, Steubenville, Ohio; W. V. B. Croskey, executor. Auger for flour-packers	563,963	July 14	1279	300	76	253
Hobbs, Willis F. (See Guernsey, Samuel B., assignor.)						
Hoberecht, Albert, Ensenada, Mexico. Surface-condensing tube	556,630	Mar. 17	2074	485	74	1549
Hoberecht, Albert, Ensenada, Mexico. Vapor or steam condenser	556,674	Mar. 17	2134	498	74	1561
Hobrock, Gustave C. (See Houser and Hobrock.)						
Hobson, Charles H., assignor of one-half to W. S. Thirlwell, Mount Carmel, Pa. Miner's lamp	567,099	Sept. 1	650	151	76	1405
Hobson, Joseph W., Bayonne, N. J. Wheeled earth-scraper	570,401	Oct. 27	3016	714 715	77	608
Hoch, James H., Marion, Kans. Reference-guide for books	565,354	Aug. 4	738	176	76	753
Hochet, Paul, Paris, France. Brush	558,950	Apr. 28	2524	612	75	525
Hochhaus, John C., St. Paul, Minn. Sprocket wheel and chain	554,272	Feb. 11	851	194	74	677
Hochholzer, Alois L., R. B. Hill, Rome, Ga., and J. D. Riggs, Selma, Ala. Lubricator	573,657	Dec. 22	2845	671	77	1871
Hochner, David. (See Van Hoesen, Casper, assignor.)						
Hock, Louis F., Philadelphia, Pa. Hair-pin	565,207	Aug. 4	475	113	76	705
Hockensmith, Franklin C., Irwin, Pa. Wheel	560,584	May 19	2252	516	75	1164
Hockett, James A., Sterling, Kans. Gasoline traction-engine	559,030	Apr. 28	2656	647	75	550
Hodel, Henry, Congerville, Ill. Gate-latch	572,638	Dec. 8	969	233	77	1483
Hodell, Victor, and A. Olson, Minneapolis, Minn. Lumber-truck	573,269	Dec. 15	2076	498	77	1710
Hodgdon, Charles W., Somerville, Mass. Pipe-hanger	555,913	Mar. 3	727	176	74	1265
Hodge, Chester A., Turner, Ill. Wheel	567,921	Sept. 22	2169	522	76	1727
Hodge, Thomas L., et al., administrators. (See Janeway, John L.)						
Hodges, Addison S., assignor to E. A. Hodges, Chelsea, Mass. Flask for making seamless sash-weights	571,308	Nov. 10	1578	375	77	962
Hodges, Esther A. (See Hodges, Addison S., assignor.)						
Hodges, George W., Chicago, Ill. Carving-machine	558,951	Apr. 28	2525	612	75	525
Hodges, Pliny F., St. Paul, Minn. Mowing-machine	554,601	Feb. 11	1413	331 332	74	784
Hodges, William, and J. H. Robbins, Philadelphia, Pa. Frying-pan	557,126	Mar. 31	2923	699	74	1752
Hodgkin, Philip E. (See Hodgkin, Stanley H. and P. E.)						
Hodgkin, Stanley H. and P. E., London, England. Type setting or composing machine	564,075	July 14	1483	347	76	290
Hodgkin, Stanley H. and P. E., London, England. Type-setting machine	564,076	July 14	1484	347	76	291
Hodgson, Ernest F., Dover, Mass. Chicken-brooder	564,689	July 28	2531	599	76	515
Hodgson, John G., assignor to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Machine for trimming and slitting packs of metal sheets	560,064	May 12	1323	296	75	945
Hodgson, John G., assignor to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Machine for cutting or trimming packs of metal sheets	560,065	May 12	1326	296 297	75	946
Hodgson, John G., assignor to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Machine for cleaning and polishing tin-plate	561,111	June 2	58	15, 16	75	1378
Hodgson, Mark, Denver, Colo. Feed-box for mangers	554,779	Feb. 18	1729	405	74	860
Hodgson, William, Tremont, N. Y. Curtain-pole	572,165	Dec. 1	126	29	77	1301
Hoe, Robert, et al. (See Crowell, Luther C., assignor.)						
Hoe, Robert, et al. (See North, Thomas M., assignor.)						
Hoe, Robert, et al. (See Sheldon, Edward P., assignor.)						
Hoe, Robert, et al. (See Spalckhaver, William, assignor.)						
Hoe, Robert, et al. (See Tucker, Edwin D., assignor.)						
Hoe, Robert, et al. (See Tucker, Stephen D., assignor.)						
Hoe, Robert, et al. (See Turner, George W., assignor.)						
Hoeborn, Carl R., Altoona, Pa. Refrigerator	565,984	Aug. 18	1914	464	76	1013
Hoeffler, John A. (See Shoup and Hoeffler.)						
Hoehne, Ferdinand F., assignor of two-thirds to T. Longworth, Kaukauna, and G. F. Germanson, Little Chute, Wis. Clutch	568,348	Sept. 29	2838	683	76	1867
Hoelzer, Theodore, Toledo, Ohio. Ball-mill for mixing or grinding	567,189	Sept. 8	800	189	76	1445
Hoen, Charles W., East St. Louis, Ill. Cannon-pinion for watches	558,558	Apr. 21	1834	446	75	381
Hoenscheid, Peter J., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Grinding-machine	563,593	July 7	604	140 141	76	113
Hoepfner, Carl, Giessen, Germany. Producing cuprous oxids	552,960	Jan. 14	880		74	179
Hoerl, Conrad, assignor of one-half to S. J. Meeker, Newark, N. J. Railway-switch	567,645	Sept. 15	1597	384	76	1605
Hoerle, William M., Port Chester, N. Y., assignor to Pittsburgh Brass Company, Pittsburgh, Pa. Lamp	557,270	Mar. 31	3197	767	74	1797
Hofacker, Fred, Rockland, Me. Feeding mechanism for furnaces	566,582	Aug. 25	2947	719	76	1225
Hofe, Edward C. vom, Brooklyn, N. Y. Fishing-reel	563,964	July 14	1281	300	76	253
Hoff, Augustus, Brooklyn, N. Y., assignor to Comstock-Hoff Manufacturing Company, of New York. Physician's portable case	559,709	May 5	599	143	75	796
Hoff, John A., and J. W. Munson, St. Louis, Mo. Stencil-cutting machine	573,841	Dec. 22	3147	750	77	1928
Hoffed, Phillip, Ross, assignor of one-half to C. Brinkhoff, Mulberry, Ind. Feeder for clover-hullers	554,341	Feb. 11	973	225	74	700
Hoffman, Alvan S. (See Chaffee, Hoffman, and Green.)						
Hoffman, Benjamin B., New York, N. Y. Electric light for bicycles	559,801	May 12	782	188	75	844
Hoffman, Charles, Spokane, Wash. Sash-fastener	570,665	Nov. 3	465	109	77	725
Hoffman, Charles, assignor of one-half to C. Litchild, Spokane, Wash. Door-brace	559,382	May 5	56	12	75	691
Hoffman, Edmund. (See Lambert and Hoffman)						
Hoffman, Edward C., Cleveland, Ohio. Spring-gear for vehicles	562,399	June 23	2337	570	75	1870
Hoffman, Edward J., Rockford, Ill. Glass-polishing machine	560,797	May 26	2679	615	75	1260
Hoffman, Edward J., Rockford, Ill. Glass-polishing machine	571,564	Nov. 17	2013	479	77	1054
Hoffman, George A., assignor of one-half to H. G. Bogar, Millersburg, Pa. Bottle-stopper	572,704	Dec. 8	1087	264	77	1505
Hoffman, George F., Philadelphia, Pa. Rope-measuring machine	566,909	Sept. 1	297	69	76	1339
Hoffman, Henry A., Lancaster, Ohio. Spring-hinge	571,133	Nov. 10	1295	301	77	907
Hoffman, Henry M., assignor to F. O. Singer, Baltimore, Md. Sectional boiler	568,198	Sept. 22	2578	620	76	1802
Hoffman, Horace J., Chicago, Ill. Bookcase	552,579	Jan. 7	129	36	74	26

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Hoffman, Jacob. (See Goodyear, Robert B., assignor.)						
Hoffman, John J., assignor of three-fourths to W. E. Duryea, Glen Cove, N. Y. Casing for packages	561,112	June 2	60	16	75	1378
Hoffman, Joseph, Schenectady, N. Y. Underground-trolley system	565,985	Aug. 18	1915	464	76	1013
Hoffman, Matthias, Wilkes-Barré, Pa. Street-railway snow-plow	564,998	Aug. 4	67	16	76	630
Hoffman, Peter E. (See Stevens and Hoffman.)						
Hoffman, Peter E., Whitesborough, N. Y. Insect-powder duster	573,184	Dec. 15	1934	464	77	1684
Hoffman, Thomas E., Orangeburg, S. C. Machine for stripping and cleaning peanuts	553,527	Jan. 28	1872	443	74	395
Hoffmann, Alfred W., assignor of one-half to E. R. Hoffmann, New York, N. Y. Candle-holder	574,356	Dec. 29	4127	980	77	2121
Hoffmann, Emil R. (See Hoffmann, Alfred W., assignor.)						
Hoffmann, Ernst G. W. C., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Lightning-arrester	553,528	Jan. 28	1874	443	74	395
Hoffmann, Ernst W. G. C., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Eccentric mounting for electric vehicle axles	558,953	Apr. 28	2529	613	75	526
Hoffmann, Ernst W. G. C., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America. Automatic device for electric-current regulation	567,982	Sept. 22	2171	523	76	1727
Hoffmann, Henry, Minneapolis, Minn. Fire-escape	565,458	Aug. 11	916	218	76	806
Hoffmann, Herman H., Chicago, Ill. Perpetual ledger	568,251	Sept. 22	2668	639	76	1819
Hoffmann, Meinhard, Mainkur, Germany. Blackish-blue azo dye	560,796	May 26	2678		75	1260
Hoffmann, William A., New York, N. Y. Toy	572,166	Dec. 1	127	30	77	1302
Hofmeyer, Julius F. (See Detzer, Henry C., assignor.)						
Hofnagle, R. A., et al. (See Grassler, William F., assignor.)						
Hofner, William C., Prospect Park, Cal. Power-transmitting gear for windmills	569,458	Oct. 13	1267	298	77	256
Hofheimer, Angelica, Brooklyn, N. Y. Toasting-fork	555,952	Mar. 10	806	193	74	1300
Hofmann, Adam J., New York, N. Y. Cutter and grater for vegetables	560,715	May 26	2537	583	75	1233
Hofmann, Carl L., Chemnitz, Germany. Stove	557,071	Mar. 24	2822	672	74	1709
Hofmann, John, assignor to Acme Company, Covington, Ky. Washing-machine	569,379	Oct. 13	1143	272	77	234
Hofmann, John, Jr., Stearleyville, assignor of one-half to W. H. Funk, Bowling Green, Ind. Brake for hay-wagons	552,708	Jan. 7	363	95	74	71
Hofmeister, Flora, Racine, Wis. Arm-rest and table for telephones	554,488	Feb. 11	1229	287	74	748
Hofstra, Henry, Grand Rapids, Mich. Street-railway switch	568,140	Sept. 22	2482	596	76	1784
Hofvoldt, Charles L., Santa Rosa, Cal. Ironing-table	570,636	Nov. 3	401	96	77	712
Hogan, Denis, and F. McMahon, Brooklyn, N. Y. Switch for railways	563,176	June 30	3731	893	75	2156
Hogan, James T., Jersey City, N. J., assignor to National Machine Company, of New York. Sewing-machine	570,478	Nov. 3	68	16, 17	77	651
Hogan, John J., Middletown, N. Y. Boiler-tube extension-coupling	558,905	Apr. 21	2435	593	75	491
Hogan, John J., Middletown, N. Y. Steam-extractor for boiler-drums	558,906	Apr. 21	2436	593	75	492
Hogan, John J., Middletown, N. Y. Internal feed-water heater	565,986	Aug. 18	1916	465	76	1013
Hogan, John J., assignor to Eastern Electric Company, New Haven, Conn. Current-controlling device	572,507	Dec. 1	731	174	77	1417
Hogan, Joseph S., Menlo, Iowa. Plow-clevis	565,079	Aug. 4	204	51	76	655
Hogan, Joseph W., Atlanta, Ga. Smoke-consuming furnace	572,896	Dec. 8	1399	338 } 339 }	77	1565
Hogan, Peter, Ballston, N. Y. Apparatus for making fertilizers	572,258	Dec. 1	289	70	77	1334
Hogan, Thomas J., Pittsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Automatic fluid-pressure brake apparatus	554,623	Feb. 11	1462	342 } 343 }	74	793
Hogeland, Israel, assignor of one-half to P. E. Berger, Chicago, Ill. Electrically-operated agricultural machine	557,809	Apr. 7	513	124	75	97
Hogg, James, Amsterdam, N. Y. Feed mechanism for carding-machines	562,610	June 23	2708	655 } 656 }	75	1939
Hogg, William F., et al. (See Hickey, Thomas W., assignor.)						
Hohlfelder, Frederick, Cleveland, Ohio. Boiler-tube ferrule	558,952	Apr. 28	2529	613	75	526
Hohnbaum, Ernst, Rodach, Germany. Level	555,771	Mar. 3	472	113	74	1215
Holle, James T., Farmingdale, N. Y. Lock	565,459	Aug. 11	918	218	76	806
Hokanson, Lars A., et al. (See Hokanson and Dolphin, assignors.)						
Hokanson, Paul E., and B. J. Dolphin, assignors of one-half to L. A. Hokanson and G. N. Nelson, Minneapolis, Minn. Bicycle attachment	556,350	Mar. 17	1578	369	74	1457
Holbrook, Harry D., Utica, N. Y. Turned shoe	560,716	May 26	2538	583	75	1233
Holbrook, John, Brooklyn, N. Y. Machine for ornamenting glass	555,164	Feb. 25	2424	575	74	1006
Holbrook, Oliver T., Rochester, N. Y. Labeling-machine	558,907	Apr. 21	2438	593 } 594 }	75	492
Holbrook, William B., Paterson, N. J. Cutter and head	574,151	Dec. 29	3722	887	77	2047
Holcombe, Joseph G., assignor to M. E. Holcombe and R. A. Bensell, Newport, Oreg. Dumping car or wagon	566,175	Aug. 18	2223	542	76	1071
Holcombe, Mary E., et al. (See Holcombe, Joseph G., assignor.)						
Holden, Edward P., Chicago, Ill. Crimping-machine	555,244	Feb. 25	2564	602	74	1031
Holden, Henry P. (See Schroeder, George G., assignor.)						
Holden, James. (See Preston and Holden.)						
Holden, Jonas H. (See Warren and Holden.)						
Holden, Lewis E., et al. (See Burton, Charles C., assignor.)						
Holden, Myron W., Williamsburg, Iowa. Wire-stretcher	559,133	Apr. 28	2881	694	75	592
Holden, William H., Chicago, Ill. Slot-iron for street-railway conduits	554,445	Feb. 11	1158	270	74	736
Holder, Elisha G., assignor of one-half to A. J. Vestal, Marquez, Tex. Gate	564,281	July 21	1845	432	76	371
Holder, William C., and C. E. Reed, Arkadelphia, Ark. Button-setting machine	557,810	Apr. 7	515	124	75	98
Holder, William H., assignor of three-fourths to J. W. Walters, R. H. Heffelfinger, and S. K. McKeehan, Scranton, Pa. Cutter-head	560,166	May 12	1506	341	75	980
Holderness, Harry I., Pine Bluff, Ark. Dust-guard for car-axle boxes	571,666	Nov. 17	2179	524	77	1085
Holdship, Charles F., Allegheny, Pa. Meter	565,208	Aug. 4	475	113 } 114 }	76	705
Holdship, Charles F., Allegheny, Pa. Meter	565,209	Aug. 4	479	114	76	705
Holdsworth, William. (See Blackford and Holdsworth.)						
Holford, Charles M. (See Tyrrell and Holford.)						
Holford, Lee. (See Windmiller and Holford.)						
Holgate, Harry. (See West and Holgate.)						
Holl, Gustav J. (See Richardson and Holl.)						
Holladay, John M., Holladay, Va. Sole-cutting machine	553,067	Jan. 14	1056	258 } 259 }	74	212
Holladay, John M., Holladay, Va. Lasting-machine	561,887	June 9	1470	355 } 356 }	75	1672
Holladay, John M., Holladay, Va. Lasting-machine	565,987	Aug. 18	1919	465 } 466 }	76	1014
Holland, Albert H., Buffalo, N. Y. Spring-seat for vehicles	567,314	Sept. 8	1031	247	76	1485
Holland, Henry P., Oakland, Cal. Ore-pulverizer	556,187	Mar. 10	1259	294	74	1381

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Holland, Henry P., Oakland, Cal. Ore-feeder.....	556,188	Mar. 10	1260	294	74	1382
Holland, Henry P., Oakland, Cal. Ore-crushing mill	557,529	Mar. 31	3653	875	74	1884
Holland, Howard M., Hammonton, N. J. Game apparatus	563,767	July 14	901	{ 215 216 }	76	185
Holland, James M., assignor to Mount Pleasant Road Grader Company, Mount Pleasant, Iowa. Road-grader	555,095	Feb. 25	2311	549	74	984
Holland, John H., and P. F. Glazier, assignors of one-third to J. R. Pierson, Indianapolis, Ind. Trolley	561,991	June 16	1650	402	75	1726
Holland, Robert N., <i>et al.</i> (See Nicholes, Herbert W., assignor.)						
Holland, William A. (See Harlow, Andrew J., assignor.)						
Hollander, Theodore, New York, N. Y. Controlling device for bottled liquors	558,280	Apr. 14	1360	332	75	274
Hollar, William H., Philadelphia, Pa., and H. W. Pidgeon, Boston, Mass.; said Pidgeon assignor to said Hollar. Stop mechanism for time-locks	571,319	Nov. 10	1595	378	77	964
Hollen, James H., Providence, R. I. Mucilage-bottle	558,607	Apr. 21	1927	468	75	397
Hollenback, Adam, <i>et al.</i> (See Richard, William, assignor.)						
Hollett, Ira W., Chicago, Ill., assignor to J. W. Sefton Manufacturing Company, Chicago, Ill., and Anderson, Ind. Paper vessel	571,526	Nov. 17	1944	464	77	1043
Hollett, Ira W., Chicago, Ill., assignor to J. W. Sefton Manufacturing Company, Chicago, Ill., and Anderson, Ind. Paper vessel	571,831	Nov. 24	2485	589	77	1162
Holley, Seymour H., assignor of two-thirds to F. O. Clark and S. V. Rawlings, Marquette, Mich. Device for swaging saw-teeth	555,005	Feb. 18	2129	{ 214 215 216 }	74	935
Holley, Seymour H., and S. V. Rawlings, Marquette, Mich. Saw-sharpening machine	570,929	Nov. 10	925		77	839
Holliday, Frank A. (See Moore and Holliday.)						
Hollinger, Isaac K., Greenville, Ohio. Wire fence	559,849	May 12	909	202	75	867
Hollinger, John, Cleveland, Ohio. Box	559,451	May 5	182	40	75	717
Hollingshead, John S. (See Mackenzie and Hollingshead.)						
Hollingshead, William B., Bronxville, N. Y., assignor to J. G. Batterson, Hartford, Conn. Electroplating copper	557,816	Apr. 7	523		75	99
Hollingsworth, Aquilla W., West Liberty, Iowa. Sunshade for canopied vehicles	571,443	Nov. 17	1798	429	77	1016
Hollingsworth, Fred, and F. M. McNeely, Norfolk, Nebr. Key-fastener	567,344	Sept. 8	1092	263	76	1497
Hollingsworth, Merrill W., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental cataphoric apparatus	569,380	Oct. 13	1144	272	77	235
Hollingsworth, Merrill W., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Appliance for bleaching teeth	574,033	Dec. 29	3508	838	77	2007
Hollingsworth & Whitney Company. (See Dean, Cunningham, Boston, and Dean, assignors.)						
Hollingsworth, William, Baltimore, Md. Mechanism for printing upon wood	553,159	Jan. 14	1222	{ 297 298 }	74	244
Hollingsworth, William, Baltimore, Md. Mechanism for drying varnished paper	562,534	June 23	2556	621	75	1911
Hollis, Henry W., Spennymoor, England. Furnace for heating steel or iron ingots	571,667	Nov. 17	2181	{ 524 525 }	77	1085
Hollister, Charles H. (See Roberts and Hollister.)						
Hollister, Edward E., Quincy, Ill. Feed regulating and measuring apparatus	564,929	July 28	2953	704	76	592
Hollister, Sebastian T., Brooklyn, N. Y. Clothes-drier	561,664	June 9	1069	258	75	1597
Holliwell, Charles, Manchester, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Knife for trimming type, printing-bars, &c	560,000	May 12	1196	265	75	923
Hollopeter, Charles M., Fostoria, Ohio. Milliampere-meter	559,134	Apr. 28	2882	694	75	592
Hollopeter, Charles M., Fostoria, Ohio. Static electrical machine	560,852	May 26	2783	638	75	1281
Holloway, Henry D., and F. W. Rhodes, Kansas City, Mo. Paper-weight	560,502	May 19	2114	484	75	1139
Holloway, James C., San Francisco, Cal. Nut-lock	564,750	July 28	2652	630	76	536
Holloway, John J., and J. W. Starkweather, Los Alamos, Cal. Unremitting rotary car-fender	571,320	Nov. 10	1597	379	77	965
Holloway, Louis R. (See Campbell, Benjamin L., assignor.)						
Holloway, Young E., Woodlawn, assignor to J. E. Berkstresser, Sylacauga, Ala. Trousers-leg-folding device	573,784	Dec. 22	3038	730	77	1908
Holly, Carlos. (See Dumville and Holly.)						
Holm, Andrew, Chicago, Ill. Marine propulsion	552,613	Jan. 7	191	52	74	37
Holman, Charles, New York, N. Y. Button for cuffs	563,768	July 14	903	216	76	185
Holman, Joseph P., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Vehicle-brake	564,562	July 21	2320	545	76	456
Holman, March. (See Hill and Holman.)						
Holman, Thomas H., Newark, Ohio, assignor of one-half to H. K. Johnson, Chicago, Ill. Ball-bearing for axles	563,858	July 14	1081	255	76	217
Holman, William A., Philadelphia, Pa. Easel-support for books, &c	571,045	Nov. 10	1121	262	77	876
Holmer, Samuel C., Brockton, Mass. Nursery-gate	569,642	Oct. 20	1622	382	77	337
Holmes, Abram G. (See Ruud and Holmes.)						
Holmes, Britain. (See Holmes, Edward and B.)						
Holmes, Britain, assignor to J. Sangster, Buffalo, N. Y. Friction-gearing	560,130	May 12	1443	325	75	969
Holmes, Britain, assignor to J. Sangster, Buffalo, N. Y. Variable-speed counter-shaft	571,879	Nov. 24	2571	{ 609 610 }	77	1178
Holmes, Charles E., assignor of one-half to J. O. Frisby, Bethany, Mo. Gate	564,999	Aug. 4	69	16	76	630
Holmes, Charles P., Lynn, Mass. Thread-waxing device for sewing-machines	564,883	July 28	2865	687	76	575
Holmes, Chester D., Boston, Mass. Refrigerator	569,788	Oct. 20	1896	450	77	385
Holmes, Daniel M., Arlington, N. J., assignor to Metropolitan Machine Works. Waffle-oven	562,962	June 30	3365	{ 809 810 }	75	2086
Holmes, Edward and B., assignors to E. & B. Holmes Machinery Company, Buffalo, N. Y. Machine for bending staves	560,167	May 12	1507	341	75	980
Holmes, Edward D. (See Davis, John E., assignor.)						
Holmes, Edward L., Minneapolis, Minn. Printer's galley	560,717	May 26	2539	583	75	1234
Holmes, Frank C., Scranton, Pa., assignor to Lackawanna Wheel Company, of Pennsylvania. Crank-shaft	564,958	July 28	3009	716	76	601
Holmes, Frank E., <i>et al.</i> (See White, Albert, assignor.)						
Holmes, Fred, City Point, Me. Saw-table gage	562,330	June 16	2221	541	75	1833
Holmes, Frederick S., assignor to G. S. Clark, Philadelphia, Pa. Removable sill for vaults or safes	557,369	Mar. 31	3404	{ 817 818 }	74	1838
Holmes, Hiram C., assignor to Wilcox, Crittenden & Co., Middletown, Conn. Anchor	558,389	Apr. 14	1550	378	75	309
Holmes, Horace, Detroit, Mich. Radiator	566,396	Aug. 25	2622	640	76	1163
Holmes, John D., and W. L. Heath, St. Louis, Mo. Automatic circuit-closing device for galvanic batteries	572,754	Dec. 8	1182	284	77	1522
Holmes, John R., <i>et al.</i> (See Foote, James H., assignor.)						
Holmes, John W., <i>et al.</i> (See Simmons, William F., assignor.)						
Holmes, Nathan L., Racine, Wis. Neck-yoke	562,184	June 16	1985	{ 480 481 }	75	1788

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Holmes, Nathan L., Racine, Wis. Adjustable carriage-pole	562,185	June 16	1988	481	75	1789
Holmes, Nathan L., assignor to J. Diehl and L. A. Erb, Racine, Wis. Bolster-spring	559,581	May 5	390	94	75	759
Holmes, Oscar D., <i>et al.</i> (See Bisbing, Charles I., assignor.)						
Holmes, Robert, Canyon, Colo. Bicycle-support	563,927	July 14	1213	284	76	241
Holmes, Samuel J., Montclair, N. J. Towel-rack	568,905	Oct. 6	320	74	77	61
Holmes & Sons. (See Oddy, Thomas, assignor.)						
Holmes, Watson M. (See Closson, John M., assignor.)						
Holmes, William. (See Dye and Holmes.)						
Holmes, William A. (See Stone, Ralston, Gregg, and Holmes.)						
Holmes, William J., Pembine, Wis. Car-standard	554,693	Feb. 18	1581	372	74	832
Holmes, William J., Pembine, Wis. Car attachment	565,898	Aug. 18	1731	425	76	975
Holmes, William K. (See Helfenstein and Holmes.)						
Holmes, William W., Chicago, Ill., assignor, by mesne assignments, to Servis Railroad Tie Plate Company. Railway-tie plate	563,037	June 30	3479	836	75	2109
Holmgren, Emil F., Brooklyn, assignor to Seamless Structural Tube Company, New York, N. Y. Machine for rolling metal tubes						
Holmgren, Per F., Brooklyn, N. Y. Drawing-press	573,877	Dec. 29	3220	766	77	1956
Holser, Levi L., Ashland, Ohio. Pulley-block for hay-slings	562,360	June 16	2279	553	75	1843
Holson, Albert B., assignor to Holson Manufacturing Company, Chicago, Ill. Speed-indicator	566,759	Sept. 1	47	12	76	1289
Holson, Albert B., assignor to Holson Manufacturing Company, Chicago, Ill. Speed-measure	561,052	May 26	3116	718	75	1344
Holson Manufacturing Company. (See Holson, Albert B., assignor.)	561,053	May 26	3118	718	75	1344
Holstein, Christian. (See Kruse and Holstein.)						
Holstein, George M., assignor to Bertha Mineral Company, Pulaski City, Va. Apparatus for refining zinc	554,185	Feb. 4	702	158	74	633
Holstein, George M., and J. D. James, Pulaski City, Va., assignors to Bertha Mineral Company, Jersey City, N. J. Process of and apparatus for refining zinc	554,184	Feb. 4	700	157	74	633
Holt, Addison C., Lynchville, Me. Oiling device for vehicle axles and wheels	569,045	Oct. 6	566	130	77	108
Holt, Albert A., Fitchburg, Mass. Vehicle running-gear	571,764	Nov. 24	2373	566	77	1141
Holt, Benjamin, Stockton, Cal. Link for driving-chains	570,637	Nov. 3	403	96	77	712
Holt, Benjamin, Stockton, Cal. Traction-engine and harvester attachment	573,593	Dec. 22	2698	610	77	1844
Holt, Henry L., Randolph, Tex. Churn	562,186	June 16	1992	482	75	1790
Holt, James S., and W. W. Eldred, Seattle, Wash. Suspenders	567,831	Sept. 15	1916	459	76	1667
Holten, James M., Fairton, N. J. Apparatus for casting fish-nets	568,252	Sept. 22	2670	639	76	1820
Holthaus, August, <i>et al.</i> (See Reynolds, Dexter, assignor.)						
Holthaus, Emil, Canarsie, N. Y., assignor to C. C. Currier, Newark, N. J. Evaporator for tank-waters, &c	556,147	Mar. 10	1182	277	74	1368
Holtkötter, Richard. (See Herzberg, Albert, assignor.)						
Holton, Thomas J., <i>et al.</i> (See Holton and Malsch, assignors.)						
Holton, Thomas J., and F. Malsch, assignors to J. Shoemaker and T. J. Holton, Philadelphia, Pa. Sewing-machine	570,479	Nov. 3	73	17, 18	77	651
Holum, John, Minneapolis, Minn. Car-coupling	564,376	July 21	1999	470	76	399
Holway, William J., <i>et al.</i> (See McGinty, John H., assignor.)						
Holz, Frederick, assignor to Cincinnati Milling Machine Company, Cincinnati, Ohio. Milling-machine	554,422	Feb. 11	1111	259	74	727
Holz, Frederick, assignor to Cincinnati Milling Machine Company, Cincinnati, Ohio. Milling-machine				261		
Holz, Otto, Schenectady, N. Y. Trolley-support for trolley-cars	554,423	Feb. 11	1115	261	74	728
Holzhauser, Frederick, Detroit, Mich. Spading-machine	569,756	Oct. 20	1843	437	77	375
Holzheimer, Henry C., assignor of one-half to B. Thompson, M. V. Shivel, J. T. Riner, and J. M. Threlkeld, North Pleasureville, Ky. Trace-eyelet	560,033	May 12	1259	283	75	934
Holzman, Michael, <i>et al.</i> (See Darley, John W., Jr., assignor.)	567,238	Sept. 8	875	209	76	1458
Holzwarth, Charles F., New Middletown, Ohio. Fence	553,466	Jan. 21	1756	419	74	357
Homan, Joseph T. (See Leavenworth, Seth H., assignor.)						
Homan Silver-Plating Company. (See Leavenworth, Seth H., assignor.)						
Homan, William C., assignor to Edward Miller & Company, Meriden, Conn. Air-distributor for central-draft lamps	556,980	Mar. 24	2663	625	74	1677
Homan, William C., assignor to Edward Miller & Company, Meriden, Conn. Lamp-burner	564,309	July 21	1883	443	76	378
Homan, William C., assignor to Edward Miller & Company, Meriden, Conn. Mount for lenses	568,027	Sept. 22	2269	549	76	1745
Homan, William C., assignor to Edward Miller & Company, Meriden, Conn. Lantern	573,148	Dec. 15	1870	450	77	1673
Homard, Albert D., Massillon, Ohio. Lubricator	568,616	Sept. 29	3328	797	76	1958
Home Ice Maker Company. (See Singer, William F., assignor.)						
Home Telephone Company. (See Minnis, Paul, assignor.)						
Homer, Frank E., Cleveland, Ohio. Trolley-support	554,694	Feb. 18	1582	372	74	833
Homer, Howard H., Franklin, Me. Sled-propeller	569,201	Oct. 13	830	195	77	174
Homestead Manufacturing Company. (See Harrison, William F., assignor.)						
Homestead Manufacturing Company. (See Heston, William, assignor.)						
Hon, Joseph, Napoleon, Ky. Book-index	561,888	June 9	1481	357	75	1675
Honaker, John P., Abingdon, Va. Device for ringing hogs	559,383	May 5	57	13	75	691
Honegger, Frederick, Baltimore, Md. Artificial limb	561,511	June 2	797	194	75	1521
Honegger, Frederick, Baltimore, Md. Artificial limb				195		
Honey, Albert A., Tacoma, Wash. Electromagnetic adhesive device	566,684	Aug. 25	3100	757	76	1254
Honey, Horace D., Holyoke, Mass. Press-copy book	568,682	Sept. 29	3454	826	76	1981
Honig, Louis, St. Louis, Mo. Insulating compound	560,034	May 12	1260	283	75	934
Honiss, William H. (See Lorenz, William A., assignor.)	568,683	Sept. 29	3455		76	1982
Honiss, William H. (See Lorenz and Honiss.)						
Honiss, William H. (See Topping and Honiss.)						
Honiss, William H., Hartford, Conn. Voting-machine	561,399	June 2	590	148	75	1484
				149		
				247		
Honiss, William H., Hartford, Conn. Recording fare-register	567,315	Sept. 8	1032	248	76	1486
				249		
				250		
Honiss, William H., and W. A. Lorenz, Hartford, Conn. Machine for applying paste to paper, &c.	571,527	Nov. 17	1946	464	77	1043
				465		
Hoober, Henry H., and M. P. Headlee, Pleasant Hope, Mo. Corn-planter	553,913	Feb. 4	211	45, 46	74	544
Hood, Adam. (See Cook, Adolphus H., assignor.)						
Hood, Charles F., assignor to M. L. Hood, Pittsburg, Pa. Process of and apparatus for cleaning waste	567,316	Sept. 8	1048	250	76	1488

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Hood, Charles O., Central Falls, assignor of one-half to R. Bliss Manufacturing Company, Pawtucket, R. I. Folding gate for cars.....	559,331	Apr. 28	3248	784	75	661
Hood, Cornelius, Benton Harbor, Mich. Step-ladder.....	554,695	Feb. 18	1583	{ 372 373 }	74	833
Hood, Freeman W., Newton, assignor to Hersey Manufacturing Company, Boston, Mass. Water-meter.....	568,759	Oct. 6	85	20	77	19
Hood, John D., Columbia, Pa. Car-coupling.....	572,425	Dec. 1	607	143	77	1393
Hood, John J., and A. G. Salamon, London, England. Manufacture of cyanogen compounds.	570,480	Nov. 3	75		77	651
Hood, Maria L. (See Hood, Charles F., assignor.)						
Hood, Ralph O., Danvers, Mass. Electric meter.....	561,711	June 9	1161	{ 276 277 }	75	1615
Hook, Benjamin F., Holmesville, Ohio. Sled.....	569,459	Oct. 13	1268	299	77	256
Hook, James, Jr., Manilla, Iowa. Evener for two-horse vehicles.....	571,134	Nov. 10	1297	301	77	907
Hooker, Benjamin, F., and H., London, England. Hydraulic and fluid pressure accumulator.....	561,992	June 16	1652	402	75	1727
Hooker, Frederick. (See Hooker, Benjamin, F., and H.)						
Hooker, Henry. (See Hooker, Benjamin, F., and H.)						
Hooker, Lucy. (See Hooker, William and L.)						
Hooker, William and L., North Fitzroy, Victoria. Solution for illuminant mantles for Bunsen gas-burners.....	573,513	Dec. 22	2557		77	1816
Hooker, William D., Chicago, Ill. Pump.....	555,096	Feb. 25	2312	549	74	964
Hoon, John M., Chicago, Ill. Metallic railway-tie and means for securing rails thereto.....	565,000	Aug. 4	70	16	76	630
Hooper, Charles, Port Norfolk, Va. Kitchen-cabinet.....	562,727	June 23	2907	705	75	1977
Hooper, Forest, Woburn, Mass. Clean-out for soil-pipes.....	572,114	Dec. 1	34	8	77	1284
Hooper, Francis X., Baltimore, Md. Printing-press.....	557,582	Apr. 7	101	25, 26	75	20
Hooper, Irvin G., Newark, N. J. Floor or roof construction for cold-storage or other buildings.....	572,259	Dec. 1	290	70	77	1334
Hooper, Mary F. C., New York, N. Y. Darning-holder.....	556,751	Mar. 24	2282	537	74	1606
Hooper, Mary P. C., New York, N. Y. Darning device.....	556,752	Mar. 24	2283	537	74	1606
Hooper, William, Brooklyn, N. Y. Gas-governor.....	556,465	Mar. 17	1799	417	74	1499
Hooper, William, Ticonderoga, N. Y. Machine for jiggling ore.....	573,594	Dec. 22	2700	641	77	1844
Hooper, William H., Empire, Mont. Vanning-machine and concentrator.....	565,355	Aug. 4	739	177	76	754
Hooper, William H., Angel's Camp, Cal. Cleaning-roller for ore-concentrators.....	567,140	Sept. 8	727	170	76	1431
Hoopes, Samuel E., Minneapolis, Minn. Stage race-track.....	559,031	Apr. 28	2658	{ 647 648 }	75	551
Hoosier Drill Company. (See Jones, Sylvester H., assignor.)						
Hoosier Drill Company. (See Towle, Elmer E., assignor.)						
Hoots, David F. (See Johnson and Hoots.)						
Hoover, John J. (See Minor and Hoover.)						
Hope Street Factory. (See Laird, John, assignor.)						
Hopedale Machine Company. (See Burgess, George M., assignor.)						
Hopewell & Son. (See Mosley, Aaron, assignor.)						
Hopkins, Andrew J., Beaver Falls, Pa. Churn.....	560,995	May 26	3021	696	75	1326
Hopkins, Cyrenius A., Clayville, N. Y. Plow.....	561,227	June 2	265	66	75	1419
Hopkins, Edward P., New York, N. Y. Electric-arc lamp.....	573,464	Dec. 22	2478	{ 557 558 }	77	1802
Hopkins, Frank J., and G. H. Miller, Newark, N. J. Car-fender.....	560,902	May 26	2878	{ 660 661 }	75	1299
Hopkins, Harvey J. (See Rappe, Emil, assignor.)						
Hopkins, James R., assignor of one-half to R. S. Wright, Somerville, Mass. Fireman's hat.....	560,213	May 19	1598	362	75	1049
Hopkins, John T., Jeffersonville, Ind. Price-ticket.....	564,930	July 28	2955	704	76	592
Hopkins, Kirk, assignor to Western New York Preserving and Manufacturing Company, Springville, N. Y. Process of and apparatus for producing hominy or hulled cereals.....	563,859	July 14	1082	255	76	218
Hopkins, Kirk, assignor to Western New York Preserving and Manufacturing Company, Springville, N. Y. Process of and apparatus for hulling and cooking cereals.....	563,860	July 14	1084	255	76	218
Hopkins, Linton C., Atlanta, Ga. Sheet-feeding machine.....	553,713	Jan. 28	2187	{ 519 520 }	74	452
Hopkins, Meshach, London, England, assignor of one-half to W. H. Cork, Chicago, Ill. Speed-gear.....	570,638	Nov. 3	404	96, 97	77	713
Hopkins, Robert G., Somerville, Mass. Shield for inkstands.....	560,409	May 19	1955	447	75	1110
Hopkins, Robert G., Somerville, assignor, by mesne assignments, to Carter's Ink Company, Boston, Mass. Inkstand.....	554,424	Feb. 11	1117	261	74	728
Hopkins, Stuart B. (See Goo and Hopkins.)						
Hopkins, Walter J. (See Gerow, George H., assignor.)						
Hopkins, Walter J. (See Percy, Sylvanus T., assignor.)						
Hopkins, Walter J., St. Clair, Mich. Dust-pan.....	572,343	Dec. 1	449	105	77	1364
Hopkins, William D., Goffstown, N. H. Whiffletree attachment.....	558,954	Apr. 28	2530	613	75	526
Hoppen, Joseph E., Newark, N. J. Shaft-hanger and lubricator therefor.....	553,676	Jan. 28	2128	504	74	440
Hopper, Charles S., Philadelphia, Pa. Can-opener.....	573,465	Dec. 22	2481	588	77	1802
Hopper, William W., Arcola, assignor to Fulcrum Manufacturing Company, Paterson, N. J. Digging spade or fork.....	567,391	Sept. 8	1177	281	76	1511
Hoppes, Charles E., Springfield, Ohio. Boiler-plate-milling machine.....	574,063	Dec. 29	3565	851	77	2019
Hoppes, John J., Springfield, Ohio. Steam-separator.....	573,878	Dec. 29	3221	766	77	1956
Höppner, Peter A. H., and J. M. L. Haddorf, Lubeck, Germany. Pot or pan.....	556,417	Mar. 17	1704	397	74	1481
Horan, James, Bridgeport, Conn. Device for supporting plants.....	565,540	Aug. 11	1090	262	76	838
Horan, James H., Louisville, Ky. Rain-gutter for houses.....	559,942	May 12	1091	242	75	900
Hord & Berg. (See Collins, Alonzo G., assignor.)						
Horgan, Charles D., Victor, Colo. Car-coupling.....	562,827	June 30	3101	751	75	2031
Horne, Melville F., Chicago, Ill. Apparatus for making scale records and certificates.....	556,009	Mar. 10	917	219	74	1321
Horix Manufacturing Company. (See Haerberlin, Hermann, assignor.)						
Horlbeck, Herman, et al. (See Johnston, Abner, assignor.)						
Horlocker, Milo, Park's Mills, Ohio. Roofing-tile.....	573,328	Dec. 15	2200	526	77	1732
Horn, Albert W. (See Grodavent, Frank J., assignor.)						
Horn, George L., et al. (See Cronin, William D., assignor.)						
Horn, Gustav, Brunswick, Germany. Gas-cooker.....	572,486	Dec. 1	692	{ 165 166 }	77	1410
Horn, Harry Y. (See Erbor, Andrew, assignor.)						
Horn, James W., and M. Early, New Madison, Ohio. Gate.....	562,826	June 30	3100	751	75	2031
Horn, Thomas W., et al., trustees. (See Pennycook, James G., assignor.)						
Hornburg, Albert L., et al. (See Trafton, William G., assignor.)						
Horne, Augustus P. (See Brunette and Horne.)						
Horne, George A., assignor to Syracuse Arms Company, Syracuse, N. Y. Ejector mechanism for breakdown firearms.....	568,760	Oct. 6	86	20	77	19

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Horne, George A., assignor to Syracuse Arms Company, Syracuse, N. Y. Ejector mechanism for breakdown guns	572,755	Dec. 8	1184	285	77	1522
Horneburg, John, Goehren auf Ruegen, Germany. Changeable furniture	567,595	Sept. 15	1512	364	76	1588
Horner, Andrew L., Seattle, Wash., assignor to Gutta Percha and Rubber Manufacturing Company, New York, N. Y. Dredger-sleeve	562,963	June 30	3366	810	75	2087
Horner, Elmer E., Faribault, Minn. Wheat-steamer	566,317	Aug. 25	2460	663	76	1132
Horner, Olney N., Thorntown, Ind. Car-coupling	557,679	Apr. 7	280	67	75	53
Horner, Samuel S., Conemaugh, Pa. Boiler-furnace	570,995	Nov. 10	1035	242	77	860
Hornig, Alexander, Sandusky, Ohio. Sandpaper-holder	554,065	Feb. 4	471	106	74	591
Hornig, Gottfried, Gnadenfrei, Germany. Imitation Smyrna rug, carpet, &c	568,113	Sept. 22	2435	584	76	1775
Hornig, Julius L., St. Louis, Mo. Electric switch	561,588	June 9	944	226	75	1574
Hornig, Julius L., St. Louis, Mo. Switch for conduit systems of electric railways	566,714	Aug. 25	3153	772	76	1262
Hornig, Julius L., St. Louis, Mo. Electric switch	566,760	Sept. 1	48	13	76	1289
Horning, William, Johnstown, N. Y. Thill-coupling	557,817	Apr. 7	524	126	75	99
Hornsey, John W. (See Wright and Hornsey.)						
Horridge, James T. (See Lord, James B., assignor.)						
Horrigan, Thomas F., Boston, Mass. Drafting device	555,287	Feb. 25	2651	620	74	1048
Horrobin, Frank W. (See Vincent, George P., assignor.)						
Horrocks Desk Company. (See Horrocks, William, assignor.)						
Horrocks, William, assignor to Horrocks Desk Company, Herkimer, N. Y. Drawer for desks	553,031	Jan. 14	987	239	74	199
Horrocks, William, assignor to Horrocks Desk Company, Herkimer, N. Y. Type-writer cabinet	563,663	July 7	713	168	76	134
Horrocks, William, assignor to Horrocks Desk Company, Herkimer, N. Y. Type-writer cabinet	571,765	Nov. 24	2374	567	77	1141
Horst, Harry W., assignor to J. H. Balsbaugh, Swatara Station, Pa. Compensator for fences	565,751	Aug. 11	1474	360	76	910
Horstmann, William H., Philadelphia, Pa. Car-fender	564,198	July 21	1704	398 399	76	346
Horton, Charles C., assignor of one-half to J. L. Dobbin, Minneapolis, Minn. Clothes-line fastener	559,893	May 12	1008	223	75	886
Horton Deep and Artesian Well Company. (See Horton, Stephen A., assignor.)						
Horton, James A., assignor of one-half to J. W. Richardson, Reading, Mass. Machine for forming nail-strips	554,931	Feb. 18	1993	471 472 473	74	910
Horton, James J., et al. (See Stone, Samuel N., assignor.)						
Horton, Lewis, Jr., Reading, Pa. Telegraphic repeater	555,165	Feb. 25	2425	575	74	1006
Horton, Nicholas P., Owen Sound, Canada. Napkin-holder	570,802	Nov. 3	605	159	77	767
Horton, Stephen A., Clarksville, assignor to Horton Deep and Artesian Well Company, Incorporated, Dallas, Tex. Well-drilling apparatus	554,820	Feb. 18	1800	422	74	875
Horton, Stephen D., Peekskill, N. Y. Fishpole-support	565,001	Aug. 4	71	17	76	630
Horton, William P., Jr., assignor to W. P. Horton, Cleveland, Ohio. Medical electrode	562,765	June 23	2967	718	75	1989
Hoskins, Charles T., and D. Walker, Louisville, Ky. Velocipede	564,282	July 21	1846	432	76	371
Hoskins, Clammar P. (See Luckenbach, Royer, assignor.)						
Hoskins, Thomas D., assignor of one-half to J. Foos and P. P. Mast, Springfield, Ohio. Street-car motor	564,618	July 28	2424	571	76	459
Hoskins, William, Chicago, Ill. Method of and apparatus for testing glass	552,641	Jan. 7	232	64	74	45
Hosmer, Marian T., Woburn, Mass. Wrapper or holder for apparel	554,876	Feb. 18	1904	417	74	893
Hosmer, Sumner B., Tonawanda, N. Y. Advertising device	566,761	Sept. 1	50	13	76	1289
Hostetter, Aaron. (See Koplin, Abraham B., assignor.)						
Hostetter, Amos B. (See Brinkman, Oscar F., assignor.)						
Hostetter, Enoch M. (See Hurt and Hostetter.)						
Hotchkiss, Charles A., assignor to Ives & Williams Company, Bridgeport, Conn. Toy cannon	556,057	Mar. 10	1017	243	74	1338
Hotchkiss, Isaac E., Waterville, Conn. Lock-knife	557,818	Apr. 7	526	126	75	99
Hotchkiss Ordnance Company. (See Benét and Mercié, assignors.)						
Hotsapillar, Jacob, Dayton, Ohio. Folding bed	569,202	Oct. 13	832	196	77	175
Hottinger, Henry. (See Lesser, Max, assignor.)						
Houck, George O., assignor of one-half to W. H. Houck, Springfield, Ohio. Corn-harvester	573,270	Dec. 15	2078	498	77	1710
Houck, James A. (See Spencer, Willard, assignor.)						
Houck, William H. (See Houck, George O., assignor.)						
Hough, Elijah, Saginaw, Mich. Heater and ventilator	569,381	Oct. 13	1145	273	77	235
Hough, James. (See Langhlin and Hough.)						
Hough, John T., and H. Reiber, assignors of one-third to H. D. Fleming, Pittsburg, Pa. Bank-note binder	561,889	June 9	1483	357	75	1675
Hough, La Fayette, Helena, Ark. Wagon-body	560,798	May 26	2680	616	75	1260
Hough, Thomas, Muncie, Ind. Machine for cutting stick-candy	567,392	Sept. 8	1178	282	76	1511
Houghton, Charles L., Northampton, assignor of two-thirds to J. L. Woodruff, Westfield, and W. I. Fox, Whatley, Mass. Bicycle-frame	566,861	Sept. 1	214	49	76	1323
Houghton, Henry S., assignor of one-half to S. Fowler, Northbridge, Mass. Cotton-opener	555,953	Mar. 10	807	194	74	1300
Houghton, Stephen C., San Francisco, Cal. Permutation-lock	567,900	Sept. 15	2014	484	76	1687
Houghton, William, assignor to Paris Tool Manufacturing Company, Paris, Canada. Pipe-wrench	567,715	Sept. 15	1711	411	76	1628
Houlehan, James, assignor to Houlehan Magnetic Separator Company, Chicago, Ill. Electromagnet	554,821	Feb. 18	1804	423	74	876
Houlehan Magnetic Separator Company. (See Houlehan, James, assignor.)						
Houreaux, Amédée, Bamberg, Germany. Detachable handle for baskets	565,460	Aug. 11	919	219	76	806
House, Adam B., and B. F. Ford, Patterson, Ill. Holder for cards, &c	562,828	June 30	3103	751	75	2032
House, Charles E., et al. (See White, Albert, assignor.)						
House, George R., Baltimore, Md. Apparatus for controlling admission of air to furnaces	558,493	Apr. 21	1740	421 422	75	362
House, Henry A., Bridgeport, Conn. Vapor-burning apparatus	559,894	May 12	1009	224	75	886
House, Henry A., Bridgeport, Conn. Vapor burner and igniter	559,895	May 12	1011	224	75	887
House, Henry A., Bridgeport, Conn. Anchor	567,680	Sept. 15	1651	398	76	1616
House, Henry A., Bridgeport, Conn. Vapor-burner	571,860	Nov. 24	2539	602	77	1172
House, Henry A., Bridgeport, Conn. Steam-turbine	571,861	Nov. 24	2541	602	77	1173
House, John, Davis, W. Va., assignor of one-half to W. E. Rayne, Ocean City, Md. Window-curtain and fixture	565,461	Aug. 11	921	219	76	807
Household Sewing Machine Company. (See Brown, Daniel W., assignor.)						
Household Specialty Company. (See Spurr, George W., assignor.)						
Householder, Harley M. (See Hanna and Householder.)						
Houser, David E., Fort Wayne, Ind. Winding device for electric cables in elevators	557,819	Apr. 7	527	126 127	75	100
Houser, David E., and G. C. Hobrock, Fort Wayne, Ind. Water-heater	555,245	Feb. 25	2566	603	74	1032
Houser, George C., Hagerstown, Ind. Roller copying-press	553,240	Jan. 21	1365	332	74	285

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Housholder, Joseph M., West Elizabeth, N. J. Coal-mining machine.....	573,271	Dec. 15	2080	{ 498 499	{ 77	1710
Houska, Frank, St. Paul, Minn. Bottle-washing machine.....	556,822	Mar. 24	2402	{ 564 565	{ 74	1628
Housman, James H., Clifton Forge, Va. Equalizer for car-trucks.....	570,875	Nov. 3	830	193	77	794
Housman, James H., assignor of one-half to C. F. Jordan, Clifton Forge, Va. Spring-seat	564,199	July 21	1706	399	76	346
Houston, Edwin J., and A. E. Kennelly, Philadelphia, Pa. Apparatus for measuring can- dle-power of arc-lamps.....	569,643	Oct. 20	1623	{ 382 383	{ 77	338
Houston, Everett A. (See Whyman, Horatio O., assignor.)						
Houston, H. R., <i>et al.</i> (See Weeks, Parrish C., assignor.)						
Houston, Preston C., <i>et al.</i> (See Van Arsdale, Frank D., assignor.)						
Houts Automatic Telephone Switch Company. (See Houts and Nilson, assignors.)						
Houts, Wallace A., Parker, S. D. Telephone system.....	554,125	Feb. 4	602	{ 136 137	{ 74	614
Houts, Wallace A., Parker, S. D., and L. G. Nilson, Sioux City, Iowa, assignors to Houts	574,245	Dec. 29	3945	{ 937 938	{ 77	2086
Houtsma, Cornelius P., Sioux Centre, Iowa. Draft-equalizer.....	559,286	Apr. 28	3163	764	75	645
Hovey, Elwyn G., assignor to Western Electric Company, Chicago, Ill. Village or house telephone system.....	566,762	Sept. 1	51	13	76	1290
Howard, Anson M., New Haven, Conn. Vehicle-wheel.....	562,224	June 16	2047	495	75	1200
Howard, Arthur J. (See Flint and Howard.)						
Howard & Bullough. (See Hitchon and Duckworth, assignors.)						
Howard, Charles, New York, N. Y. Process of and apparatus for saturating wood.....	557,271	Mar. 31	3198	768	74	1797
Howard, Charles R., Somerville, N. J. Bicycle attachment.....	568,406	Sept. 29	2929	704	76	1884
Howard, Elizabeth, administratrix. (See Howard and Fitton.)						
Howard, Emmons, Westfield, Mass. Reed-pipe.....	555,374	Feb. 25	2799	657	74	1076
Howard, Ernest, Boston, Mass. Illusion.....	574,090	Dec. 29	5615	{ 864 865	{ 77	2028
Howard, George B. (See Nichols, Aaron S., assignor.)						
Howard, George H., <i>et al.</i> (See Dees, Mark A., assignor.)						
Howard, Henry J. M., Washington, D. C. Hose-holder.....	555,574	Mar. 3	152	36	74	1158
Howard, John E., and J. C. Taite, London, England. Automatic drain-valve.....	568,624	Sept. 29	3456	826	76	1982
Howard, Joseph S. (See Howard, William B., Jr., and J. S.)						
Howard, Lewis N. (See Butterfield, Alvor, assignor.)						
Howard, Lyman D., Nelsonville, Ohio. Merry-go-round.....	564,409	July 21	2057	482	76	411
Howard, Lyman D., Philadelphia, Pa., assignor to J. A. Jeffrey, Columbus, Ohio. Chain..	572,991	Dec. 15	1590	381	77	1619
Howard, Ruth L. (See Weatherwax, J. Ensign, assignor.)						
Howard, Tom, deceased, (E. Howard, administratrix,) and J. R. Fitton, Worcester, Mass. Tension device for loom-shuttles.....	560,181	May 12	1534	347	75	985
Howard, Walter, Washington, D. C. Swing.....	556,981	Mar. 24	2664	{ 625 626	{ 74	1677
Howard, Walter F., Clinton, Mass. Pocket-case for playing-cards.....	559,135	Apr. 23	2884	695	75	593
Howard, William B., Jr., and J. S., Brooklyn, N. Y. Auger-bit.....	567,271	Sept. 8	949	226	76	1470
Howard, William H., Pueblo, Colo. Desilverizing lead bullion.....	563,769	July 14	904	216	76	185
Howard, William H., Malden, Mass. Bicycle-tire repairer.....	566,764	Sept. 1	54	14	76	1290
Howard, William S., Lycoming, N. Y. Bag-holder.....	568,253	Sept. 22	2671	639	76	1820
Howarth, John W., <i>et al.</i> (See Chapin, William R., assignor.)						
Howarth, John W., <i>et al.</i> (See Lindsay, Archibald L., assignor.)						
Howd, Charles B. (See Loomer and Howd.)						
Howe, Charles E., Lynn, Mass. Machine for beating out shoe-soles.....	563,487	July 7	429	99	76	82
Howe, Charles F. (See Heath, George S., assignor.)						
Howe, Daniel K., Portland, Oreg. Fly-case.....	556,982	Mar. 24	2667	626	74	1678
Howe, Edwin C., Bridgeport, Conn. Bracket for attaching incandescent lights to com- pound gas-fixtures.....	568,573	Sept. 29	3242	780	76	1941
Howe, Elmer C., assignor to American Waltham Manufacturing Company, Waltham, Mass. Ball-bearing for bicycles.....	570,428	Oct. 27	3064	726	77	617
Howe, Eugene E. (See Kohlenberg, Ferdinand, assignor.)						
Howe, Frank P., and V. Angerer, assignors to William Wharton, Jr., & Company, Incor- porated, Philadelphia, Pa. Track structure.....	555,772	Mar. 3	473	113	74	1215
Howe, Fred C., Worcester, Mass. Fountain tooth-brush.....	565,273	Aug. 4	611	144	76	728
Howe, Henry L., Canandaigua, N. Y. Automatic clutch or governor.....	567,393	Sept. 8	1179	282	76	1511
Howe, Henry L., Canandaigua, N. Y. Air-brake.....	567,476	Sept. 8	1308	316	76	1536
Howe, Henry L., Canandaigua, assignor to Standard Brake Company, New York, N. Y. Triple valve for air-brakes.....	568,979	Oct. 6	449	{ 100 101	{ 77	87
Howe, Henry L., Canandaigua, assignor to Standard Brake Company, New York, N. Y. Triple valve.....	568,980	Oct. 6	454	{ 102 103	{ 77	87
Howe, Hezekiah, Olean, N. Y. Fireplace-heater.....	559,487	May 5	238	53, 54	75	728
Howe, John B., Danbury, Conn. Hat-finishing lathe.....	558,810	Apr. 21	2275	{ 551 552	{ 75	460
Howe, John B., Danbury, Conn. Pouncing-head for hat-pouncing machines.....	562,299	June 16	2170	527	75	1823
Howe, John B., Danbury, Conn. Compound graduated spring for hat-pouncing machines..	562,300	June 16	2171	528	75	1823
Howe, Percy C., Boston, assignor of one-half to H. J. Howes, Hyde Park, Mass. Thermo- stat-actuated fire-alarm.....	570,892	Nov. 3	866	201	77	802
Howe, Simon H. (See Proctor, Joseph E., assignor.)						
Howe, Solon G., Detroit, Mich. Pipe-testing device.....	571,725	Nov. 17	2278	547	77	1104
Howe, Solon G., Detroit, Mich. Car-brake.....	572,802	Dec. 8	1267	{ 305 306	{ 77	1538
Howe, Solon G., assignor of two-thirds to D. Inglis and J. W. Cheney, Detroit, Mich. Pipe tapping and connecting device.....	563,488	July 7	430	100	76	83
Howe, Warren B., Chicago, Ill. Knockdown paper box.....	556,675	Mar. 17	2136	498	74	1562
Howe, Warren B., Chicago, Ill. Machine for cutting and scoring paper.....	569,873	Oct. 20	2024	483	77	409
Howe, Warren B., Chicago, Ill. Moisture-proof paper.....	569,874	Oct. 20	2027		77	409
Howe, Warren B., and F. B. Davidson, Chicago, Ill. Paper box.....	564,377	July 21	2000	470	76	399
Howe, William H., Watertown, Mass. Sounding-board for pianos.....	572,897	Dec. 8	1401	339	77	1566
Howe, William H., assignor to J. S. Hartshorn and H. B. White, Toledo, Oh. o. Boiler-flue cleaner.....	566,763	Sept. 1	53	13, 14	76	1290
Howe, William R., Dayton, Ohio. Car-fender.....	568,906	Oct. 6	321	74	77	62
Howell, Edgar E. (See Blackburn and Howell.)						
Howell, Edward G., Trinidad, Colo. Letter-box.....	561,589	June 9	947	226	75	1574
Howell, Felix T., Birmingham, Ala. Steam separator and trap.....	555,701	Mar. 3	368	85	74	1195
Howell, George H. (See Bolton and Howell.)						
Howell, James H. (See Torrance and Howell.)						
Howell, John A., Washington, D. C. Counterpoise gun-carriage.....	556,926	Mar. 24	2576	606	74	1660

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Howell, Richard, New York, N. Y. Fire-escape	554,515	Feb. 11	1269	297	74	756
Howell, William E., Los Angeles, Cal. Ventilated receptacle	572,167	Dec. 1	128	30	77	1302
Howes Grain Cleaner Company. (See Keith, Elgin, assignor.)						
Howes, Henry J. (See Howe, Percy C., assignor)						
Howland, Benjamin F., Philadelphia, Pa. Apparatus for treating garbage	554,877	Feb. 18	1905	{ 447 448 }	{ 74 75 }	894
Howland, Edward H., Omaha, Nebr. Rein-holder	557,583	Apr. 7	102	26	75	21
Howland, Stephen H., Springfield, Mass., assignor of one-half to C. E. Buell, North Plainfield, N. J. Steam-trap	573,658	Dec. 22	2846	671	77	1572
Howlett, Michael J., Bayonne, N. J. Toy puzzle	571,477	Nov. 17	1855	441	77	1026
Howson, Thomas W., Elizabeth, N. J. Bottle-stopper	559,070	Apr. 28	2740	666	75	566
Hoy, Harman. (See Hoy, Louis E. and H.)						
Hoy, Louis E., Fremont, Nebr., and H. Hoy, Baltimore, Md. Elevating and dumping device	567,100	Sept. 1	652	152	76	1405
Hoyer, Frederick, Liverpool, England. Paper-feeding machine	556,351	Mar. 17	1580	{ 370 371 }	{ 74 75 }	1457
Hoyer, Gustav, Schönebeck, Germany. Apparatus for joining pipes	568,574	Sept. 29	3242	780	76	1942
Hoyer, Olof. (See Johnson and Hoyer.)						
Hoyer, Olof, Chicago, Ill. Adjustable and folding shutter or screen	573,659	Dec. 22	2847	671	77	1572
Hoyer, Rudolph C., Memphis, Tenn. Car-fender	563,594	July 7	806	141	76	113
Hoyer, Rudolph C., Memphis, Tenn. Car-fender	570,758	Nov. 3	626	144	77	753
Hoyland, Edward A. (See Hoyland, Godfrey M. and E. A.)						
Hoyland, Godfrey M. and E. A., London, England. Propeller	562,469	June 23	2459	596	75	1893
Hoyt, Adrian H., Penacook, N. H., assignor to Whitney Electrical Instrument Company, Saco, Me. Electrical measuring instrument	555,702	Mar. 3	369	85	74	1195
Hoyt, Ezra S., Detroit, Mich., and G. F. Speer, Canisteo, N. Y., assignors to Hoyt-Speer Compound Gas Company, Limited, Detroit, Mich. Apparatus for manufacturing gas ..	559,287	Apr. 28	3166	{ 764 765 766 }	{ 75 76 }	645
Hoyt, Fred S., Fort Dodge, Iowa. Excavating-machine	566,318	Aug. 25	2461	{ 603 604 }	{ 76 77 }	1132
Hoyt, Frederick J., Chicago, Ill., assignor to W. H. Sterling and L. J. West. Bicycle-lock ..	560,355	May 19	1860	424	75	1094
Hoyt, George E., San Francisco, Cal. Igniting apparatus for gas or explosive engines ..	561,890	June 9	1424	357	75	1675
Hoyt, James G., Brooklyn, assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-machine	573,595	Dec. 22	2703	641	77	1845
Hoyt, Joel S., Toledo, Ohio. Dish-cleaner	553,677	Jan. 28	2129	594	74	440
Hoyt, Matthew L., Birtchton, assignor to D. H. Burrell & Co., Little Falls, N. Y. Centrifugal liquid-separator	562,782	June 23	2999	725	75	1995
Hoyt-Speer Compound Gas Company. (See Hoyt and Speer, assignors.)						
Hoyt, William E. (See Hagerty, Thomas F., assignor.)						
Hub Treering Machine Company. (See Clark, George H., assignor.)						
Hubbard, Arthur G. (See Blue, Charles E., assignor.)						
Hubbard, Eber, Berwyn, Ill. Pulp-pail-making machine	561,788	June 9	1307	313	75	1642
Hubbard, Edward L., Baltimore, Md. Device for inspecting bottoms of streams, &c.	572,803	Dec. 8	1270	306	77	1539
Hubbard, George M., assignor to W. & E. T. Fitch Company, New Haven, Conn. Snap-book	554,489	Feb. 11	1230	288	74	749
Hubbard, George M., assignor to W. & E. T. Fitch Company, New Haven, Conn. Sash-fastener	564,426	July 21	2090	489	76	416
Hubbard, George W., Chicago, Ill. Screw-propeller	573,977	Dec. 29	3417	819	77	1991
Hubbard, Henry, assignor to Chicago Stamping Company, Chicago, Ill. Journal-bearing ..	565,988	Aug. 18	1928	466	76	1016
Hubbard, John L. (See Durand, John E., assignor.)						
Hubbard, Moses G., Jr. (See McGuire and Hubbard.)						
Hubbard, Moses G., Jr., assignor to McGuire Manufacturing Company, Chicago, Ill. Switch-stand	565,899	Aug. 18	1733	425	76	976
Hubbard, Moses G., Jr., assignor to McGuire Manufacturing Company, Chicago, Ill. Brake connection for trucks	572,992	Dec. 15	1592	381	77	1620
Hubbard, Robert J., Mount Clemens, Mich. Folding chair	556,418	Mar. 17	1705	398	74	1481
Hubbard, William W., Manchester, N. H. Clamp	563,038	June 30	3481	837	75	2109
Hubbell, Harry P., St. Louis, Mo. Cushion for hat-fasteners	553,160	Jan. 14	1226	298	74	245
Hubbell, Harvey, Bridgeport, Conn. Socket for incandescent lamps	565,541	Aug. 11	1091	263	76	838
Hubbell, Harvey C., Springfield, Ohio. Meat-tenderer	573,660	Dec. 22	2848	672	77	1872
Hubbell, Joseph H., Dayton, Ohio. Link system for oil-press boxes	569,920	Oct. 20	2106	501	77	424
Hubbell, Joseph H., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Hydraulic relief-valve mechanism	569,921	Oct. 20	2108	502	77	424
Hubbell, Silas, Syracuse, N. Y. Folding bicycle-frame	561,665	June 9	1070	258	75	1597
Hubbuch, Franz A., Furtwangen, Germany. Water-meter	557,820	Apr. 7	528	127	75	100
Hubel, Frederick A., and J. M. Smith, Detroit, Mich.; said Smith assignor to said Hubel. Capsule-machine	557,073	Mar. 24	2823	673	74	1709
Hubener, William A., West Hoboken, N. J. Bottle	563,276	July 7	71	18	76	15
Huber, Allen J., assignor of one-half to C. H. Huhn, Minneapolis, Minn. Hydrocarbon-burner	552,709	Jan. 7	364	95	74	71
Huber, Berthold, assignor to Huber Printing Press Company, Taunton, Mass. Printing-press	571,089	Nov. 10	1203	282	77	891
Huber, Edward, Marion, Ohio. Centrifugal governor	553,852	Feb. 4	72	15	74	518
Huber, Edward, Marion, Ohio. Lubricator	553,853	Feb. 4	73	15	74	518
Huber, Edward, Marion, Ohio. Traction-engine	563,177	June 30	3732	893	75	2156
Huber, Edward, Marion, Ohio. Traction-engine	565,900	Aug. 18	1734	425	76	976
Huber, Edward, and J. W. Miller, Marion, Ohio. Pneumatic straw-stacker	555,902	Mar. 3	708	171	74	1262
Huber, Edward, and J. W. Miller, Marion, Ohio. Grain-weigher	556,149	Mar. 10	1187	{ 277 278 }	{ 74 75 }	1369
Huber, Edward, and J. W. Miller, Marion, Ohio. Pneumatic stacker	559,452	May 5	184	40	75	717
Huber, Edward, and J. W. Miller, Marion, Ohio. Straw-stacker	570,403	Nov. 3	695	159	77	767
Huber, Herman, Kansas City, Mo. Smelting-furnace	572,011	Nov. 24	2805	661	77	1222
Huber, Jacob E., Philadelphia, Pa. Soda-water fountain	555,446	Feb. 25	2937	697	74	1101
Huber, John, et al. (See Orr, Thomas J., assignor.)						
Huber, José, Santiago, Chile. Oscillating propeller	566,910	Sept. 1	298	69, 70	76	1340
Huber, Mary R., Marysville, Kans. Shocker attachment for harvesters	571,617	Nov. 17	2100	504	77	1070
Huber, Philipp, Saginaw, Mich. Electrizing water for heating purposes	558,176	Apr. 14	1185	288	75	241
Huber Printing Press Company. (See Huber, Berthold, assignor.)						
Huber, Sigmund V., Pittsburg, Pa. Repeater for rolling-mills	555,375	Feb. 25	2800	657	74	1076
Huber, Sigmund V., Pittsburg, Pa. Feed-table for rolling-mills	568,254	Sept. 22	2672	640	76	1820
Huber, Sigmund V., Pittsburg, Pa. Feed-table for rolling-mills	573,185	Dec. 15	1934	{ 464 465 }	{ 77 78 }	1684
Huber, Sigmund V., Youngstown, Ohio. Feed-table for rolling-mills	568,949	Oct. 6	397	89, 90	77	76
Huber, Sigmund V., Youngstown, Ohio. Feed-table for rolling-mills	569,283	Oct. 13	975	234	77	201
Huber, Sigmund V., Youngstown, Ohio. Feed-table for rolling-mills	572,168	Dec. 1	129	30, 31	77	1302

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Hübner, Ernst, Halle, Germany. Filter-press and filter-press plate	571,368	Nov. 17	1677	397	77	994
Hübner, Georg, Gernsbach, Germany. Electrode for secondary batteries	565,140	Aug. 4	359		76	684
Huc, Julius, Boston, Mass. Athletic skirt	565,752	Aug. 11	1475	{ 360 361 }	76	910
Huddle, William, assignor to Marion Manufacturing Company, Marion, Ohio. Separator and stacker	559,174	Apr. 28	2955	714	75	607
Hudgins, Anna A., Rome, Ga. Buttonhole-cutter and ripper	560,616	May 19	2306	528	75	1174
Hudson, Edmund. (See Crane, Moses G., assignor.)						
Hudson, Edmund, Hartford, Conn. Stereopticon advertising device	552,663	Jan. 7	282	76, 77	74	55
Hudson, George M., Birmingham, Ala. Display-box cover	566,765	Sept. 1	56	14	76	1290
Hudson, George M., Birmingham, Ala. Display-box cover	573,661	Dec. 22	2849	672	77	1872
Hudson, James, Birmingham, England. Draw-plate	569,335	Oct. 13	1071	254	77	221
Hudson, Louis E., Ellisburg, N. Y. Tool-box for bicycles	572,993	Dec. 15	1593	382	77	1620
Hudson, Richard N. (See Reynolds and Hudson.)						
Hudson, William, assignor of one-half to U. S. Ragland, Black Walnut, Mo. Nut-lock	562,829	June 30	3104	752	75	2032
Hudson, William C., Jasper, Ark. Wire-stretcher	561,891	June 9	1485	358	75	1675
Huebel, Otto H. (See Manger and Huebel.)						
Huebel, Otto H., Brooklyn, N. Y. Soap-holder	570,666	Nov. 3	466	109	77	725
Huebel, Otto H., Brooklyn, assignor to L. Frank, New York, N. Y. Movable soap-cup	553,467	Jan. 21	1758	419	74	357
Huebel, Otto H., and F. W. Manger, Brooklyn, N. Y. Pincushion	559,032	Apr. 28	2661	648	75	552
Huebel, Otto H., and F. W. Manger, Brooklyn, assignors to L. Frank, New York, N. Y. Soap and sponge holder	553,241	Jan. 21	1367	333	74	285
Huebel, Otto H., and F. W. Manger, Brooklyn, assignors to W. Bernard and L. Frank, New York, N. Y. Match-safe	571,121	Nov. 10	1274	295	77	903
Huebner, George, St. Louis, Mo. Rotary oven	552,838	Jan. 7	638	{ 156 157 }	74	120
Huebner, George, St. Louis, Mo. Baking-oven	557,390	Mar. 31	3406	818	74	1838
Huebner, Martin E., Sumner, Ill. Check-hock	553,117	Jan. 14	1152	279	74	230
Hueffelman, Henry W., Dayton, Ohio. Car-coupling	552,642	Jan. 7	233	64, 65	74	46
Hueg, Herman F. W., Long Island City, N. Y. Machine for preparing and shaping dough	554,273	Feb. 11	852	{ 195 196 }	74	678
Hueg, Herman F. W., Long Island City, N. Y. Machine for dividing dough	560,718	May 26	2540	584	75	1234
Hueg, Herman F. W., Long Island City, N. Y. Apparatus for shaping and ornamenting cakes, &c.	560,719	May 26	2542	{ 584 585 }	75	1234
Huenefeld, Ernst H., Cincinnati, Ohio. Heat deflector and equalizer for ovens	563,928	July 14	1214	284	76	241
Huestis, Frederick W. (See Leigh, Richard A., assignor.)						
Huestis, Frederick W., Boston, Mass. Rubber tire	558,689	Apr. 21	2073	501	75	423
Huetlich, Reinhold. (See Haiman, Huetlich, and Bishop.)						
Huey, William G., Philadelphia, Pa. Valve for steam-guns	556,058	Mar. 10	1018	243	74	1338
Huff, Dwight H. (See Slaght, Edwin F., assignor.)						
Huff, George R., and G. H. Vernon, St. Paul, Minn. Saw-filing machine	553,584	Jan. 28	1975	468	74	414
Huff, William B., Vandalia, Ill. Land-marker	568,534	Sept. 29	3173	764	76	1928
Huffman, Albert L., Columbus, Ohio. Device for aiding work of addition	568,907	Oct. 6	323	75	77	62
Hufnagel, Daniel, Milo, Ill. Shoveling-board	560,996	May 26	3022	696	75	1326
Hufschmidt, Henry. (See Hufschmidt and Styles, assignors.)						
Hufschmidt, Louis A., and R. Styles, assignors to themselves and H. Hufschmidt, San Francisco, Cal. Car-fender	570,402	Oct. 27	3018	715	77	608
Hugershoff, Franz, Leipzig, Germany. Driving mechanism for hand-power centrifugal machines	556,888	Mar. 24	2511	592	74	1649
Hughes, Charles D., Brooklyn, assignor to Empire Type Setting Machine Company, New York, N. Y. Type-distributing machine	572,705	Dec. 8	1088	264	77	1505
Hughes, Daniel J. (See Buchanan and Hughes.)						
Hughes, Frank J. (See Dearborn, Richard J., assignor.)						
Hughes, G. Milton, et al. (See Barr, John, assignor.)						
Hughes, George W. (See Bradbury and Nilson, assignors.)						
Hughes, Henry E., Pawtucket, assignor of one-half to T. J. Risk, Central Falls, R. I. Spindle	570,996	Nov. 10	1036	243	77	860
Hughes, Henry E., Pawtucket, assignor of one-half to T. J. Risk, Central Falls, R. I. Spindle	570,997	Nov. 10	1038	243	77	860
Hughes, Henry J., Brooklyn, N. Y. Grinding-mill	561,317	June 2	447	111	75	1456
Hughes, James, Bridgeport, Conn. Drawbridge-gate	568,761	Oct. 6	88	21	77	19
Hughes, John. (See Conklin and Hughes.)						
Hughes, John, Cleveland, Ohio. Cork-shaving machine	558,177	Apr. 14	1186	289	75	241
Hughes, Marshall L. (See Jackson, Benjamin F., assignor.)						
Hughes, Ralph T., Saltburn, and J. Gill, Leeds, England. Apparatus for pressing brick	573,514	Dec. 22	2558	{ 606 607 }	77	1816
Hughes & Russum. (See Goodyear, Robert B., assignor.)						
Hughes, Samuel, assignor to Charleston Metallic Packing Company, Charleston, S. C. Packing for piston-rods	559,080	Apr. 28	2741	667	75	566
Hughes, Smith E., Philadelphia, Pa. Carousel	553,468	Jan. 21	1759	{ 419 420 }	74	357
Hughes, Thomas R., et al. (See Richardson, John R., assignor.)						
Hugo, Oliver K., assignor of one-half to V. Hugo, Chicago, Ill. Window	555,726	Mar. 3	409	94, 95	74	1203
Hugo, Virginie. (See Hugo, Oliver K., assignor.)						
Hugunin, Robert B., Hartford, Conn. Roller sash-balance	552,761	Jan. 7	477	118	74	90
Huhle, Max, St. Louis, Mo. Piano-chair	554,516	Feb. 11	1269	297	74	756
Huhn, Charles H. (See Huber, Allen J., assignor.)						
Hulbert, Alexander D. (See Blair, Frederick W., assignor.)						
Hulett, George H., Cleveland, Ohio. Car-dumping mechanism	558,178	Apr. 14	1188	{ 289 290 }	75	242
Hulett, George H., Cleveland, Ohio. Car-dumping machine	568,851	Oct. 6	239	55, 56	77	47
Hulings, James H., Parsons, W. Va. Oil-can	554,780	Feb. 18	1730	405	74	860
Hull, Eugene E., assignor of two-thirds to J. Feist and J. Forney, Silver Cliff, Colo. Sash-holder	560,356	May 19	1861	424	75	1094
Hull, Eugene E., J. S. Forney, and J. A. Feist, Silver Cliff, Colo. Carpet-stretcher	573,149	Dec. 15	1872	451	77	1673
Hull, Harvey, West Burlington, N. Y. Lathing-machine	553,242	Jan. 21	1367	333	74	285
Hull, Jedediah D., El Dorado, Kans. Attachment for harness	568,762	Oct. 6	89	21	77	20
Hull, Nicholas A., assignor to F. Patzack, Chicago, Ill. Sewing-machine cabinet or table	553,490	Jan. 21	1800	428	74	304
Hull, Nicholas A., assignor to F. Patzack, Chicago, Ill. Sewing-machine table	571,193	Nov. 10	1382	323	77	924
Hull, Randolph P., assignor of two-thirds to H. K. Beck and H. M. Hawley, Norwalk, Ohio. Rib and stretcher for umbrellas	559,228	Apr. 28	3169	765	75	646
Hull, Samuel P., and J. H. Boylett, Poughkeepsie, N. Y. Pneumatic signaling apparatus	556,577	Mar. 17	1994	466	74	1535
Hull, Scott H., et al. (See Whitacre, Richard E., assignor.)						
Hull, William A., Cedar Rapids, Iowa. Barrel-truck	565,989	Aug. 18	1929	467	76	1016

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Hull, William F. (See Denney, William H., assignor.)						
Hull, William S., Dallas, Tex. Electric-railway conduit	566,397	Aug. 25	2623	641	76	1163
Hull, Wolcott A., New York, N. Y. Device for controlling the flow of liquids	556,983	Mar. 24	2668	626	74	1678
Hull, Wolcott A., New York, N. Y. Device for controlling the flow of water from water-pipes of houses. (Reissue)	11,553	June 30	3860	924	75	2180
Hull, Wolcott A., New York, N. Y., assignor to Pneumatic Press Company, Elizabeth, N. J. Cracker-cutter	557,821	Apr. 7	530	127	73	100
Hullerman, William, Independence, Iowa. Tire-shrinker	564,690	July 28	2532	599	76	515
Hulme, Thomas B. (See Hulme, William A. and T. B.)						
Hulme, William A. and T. B., assignors of one-fourth to J. V. Clark, Salona, Tex. Machine for sharpening and gumming saws	564,077	July 14	1486	347 348	76	291
Hulse, James H., W. E. Bray, and F. N. Steen, Salt Lake City, Utah. Safe-lock	554,126	Feb. 4	606	137	74	615
Hulsmann, Frederick, Allegheny, Pa. Exercising-machine	554,636	Feb. 11	1488	348	74	797
Hult, Carl A. and O. W., Stockholm, Sweden. Rotary engine	563,929	July 14	1215	284 285	76	242
Hult, Oscar W. (See Hult, Carl A. and O. W.)						
Hultgren, William H., assignor to A. B. Ellithorpe, Chicago, Ill., and R. W. Gardner, Detroit, Mich. Elevator-valve	566,982	Sept. 1	436	103	76	1364
Hum, Edward K., Pittsburg, Pa. Lightning-rod ball	556,984	Mar. 24	2669	627	74	1678
Humbrecht, Erasmus, Cincinnati, Ohio. Velocipede	571,069	Nov. 10	1159	270 271	77	883
Hume, Robert D., Gold Beach, Ore. Can-body forming, soldering, and heading machine. (Reissue)	11,533	Apr. 21	2467	600 601	75	496
Hume, Robert D., Gold Beach, Ore. Can-heading machine	572,360	Dec. 1	482	113 114	77	1370
Humes, James, New York, N. Y. Ice-making apparatus	564,466	July 21	2182	511	76	433
Hummel, Carl. (See Padberg and Hummel.)						
Hummel, Georg, Munich, Germany. Wattmeter	570,019	Oct. 27	2280	542	77	469
Hummel, William H., and L. H. Lothridge, Philadelphia, Pa.; said Hummel assignor to said Lothridge. Combination-tool	562,611	June 23	2710	656	75	1940
Hummell, Emanuel, Bloomsburg, Pa. Hitching device	566,319	Aug. 25	2466	604	76	1134
Humphrey, George B., Derry Station, Pa. Pneumatic tire	561,512	June 2	800	195	75	1522
Humphrey & Glasgow. (See Thuman, Frederic, assignor.)						
Humphrey, John D., New Britain, Conn. Combined oil heater and illuminator	554,696	Feb. 18	1584	373	74	833
Humphrey, John L., Rochester, N. Y., assignor to F. W. Devoe & C. T. Reynolds Company, of New Jersey. Varnish-can	563,178	June 30	3733	894	75	2156
Humphrey, Joseph O., et al. (See Fuller, James M., assignor.)						
Humphrey, Otis L., assignor to Lowell Machine Shop, Lowell, Mass. Stop-motion spoon for machines for preparing slivers	566,983	Sept. 1	439	103	76	1364
Humphrey, Warden R., Wilmington, Del. Shower or needle bath	552,839	Jan. 7	639	157	74	120
Humphrey, William H. (See Balzer, Stephen M., assignor.)						
Humphreys, Alexander C., et al. (See Woods, George E., assignor.)						
Humphreys, Daniel F., Milton, N. D. Antifreezing pump attachment	570,284	Oct. 27	2763	657	77	562
Humphreys, John F., et al. (See Lemon and Bartlett, assignors.)						
Huncilman, Richard A., New Albany, and T. M. Barbee, Corydon, Ind. Stove	562,830	June 30	3105	752	75	2032
Hund, Hugo L. (See Falkenau and Hand.)						
Hunger, Oskar, assignor to R. Gritzner, Durlach, Germany. Superheater	552,906	Jan. 14	790	191	74	161
Hunger, Oskar, assignor to R. Gritzner, Durlach, Germany. Superheater	568,763	Oct. 6	90	21	77	20
Hungerford, Artemas M., and W. W. Bott, Mahaska, Kans. Burglar-alarm	555,810	Mar. 3	533	129	74	1227
Hunnicke, Henry A., St. Louis, Mo. Art of obtaining gold	560,997	May 26	3023	697	75	1326
Hunn, Albert B., assignor to New Department Bell Company, Bristol, Conn. Bicycle-bell	572,932	Dec. 8	1481	355	77	1582
Hunt, Aaron J., Hiawatha, Kans. Fodder-loader	558,179	Apr. 14	1189	290	75	242
Hunt, Albert C., Denver, Colo. Electrical safety-lock for elevators	559,529	May 5	307	74	75	742
Hunt, Albert C., assignor to J. W. Stearns, Denver, Colo. Locking mechanism for elevators	564,884	July 28	2867	687 688	76	575
Hunt, Albert F., Jr., and G. L. Walker, New York, N. Y., assignors of one-third to T. Hill, Jersey City, N. J. Booth	570,403	Oct. 27	3020	715 716	77	608
Hunt, Alva, St. Paul, Minn. Automatic grain-measuring apparatus	571,922	Nov. 24	2662	631	77	1195
Hunt, Bertram, Cripple Creek, Colo. Refining gold and silver bullion	571,369	Nov. 17	1679		77	994
Hunt, Charles A., Jr., Lexington, N. C. Apparatus for dyeing	564,619	July 28	2426	571 572	76	495
Hunt, Charles W., West New Brighton, N. Y. Endless-chain conveyer	552,664	Jan. 7	284	77	74	55
Hunt, Charles W., West New Brighton, N. Y. Elevating apparatus for coal, ores, &c	553,118	Jan. 14	1153	279	74	231
Hunt, Charles W., West New Brighton, N. Y. Hoisting apparatus	555,703	Mar. 3	371	86	74	1196
Hunt, Charles W., West New Brighton, N. Y. Coaling-tub	559,384	May 5	59	13	75	691
Hunt, Charles W., and C. C. King, West New Brighton, assignors to C. W. Hunt Company, New York, N. Y. Hanging boom and support	553,119	Jan. 14	1153	280	74	231
Hunt, Clarence T., New Haven, Conn. Padlock	558,814	Apr. 21	2281	554	75	461
Hunt, David. (See Bowie, William S., assignor.)						
Hunt, David. (See Langelier, Antoine J., assignor.)						
Hunt, David, Boston, Mass. Supporting-frame for landing-nets, &c	559,802	May 12	784	188	75	845
Hunt, David, Boston, Mass. Dust-pau	569,829	Oct. 20	1957	466	77	397
Hunt, David, Boston, Mass. Dust-bag	569,830	Oct. 20	1958	466	77	397
Hunt, Edward, Denver, Colo. Body-shield	558,812	Apr. 21	2278	553	75	461
Hunt, Edward W. (See Jackson and Hunt.)						
Hunt, Elzo B., Harvard, Ill. Link for metal chains	562,612	June 23	2710	656	75	1940
Hunt, Frank M., Round Oak, Ga. Singletree-hook	571,370	Nov. 17	1680	397	77	994
Hunt, Helm & Ferris. (See Ferris, Henry L., assignor.)						
Hunt, Henry and Henry, Jr., Wilkes-Barré, Pa. Pencil	558,813	Apr. 21	2279	554	75	461
Hunt, Henry and Henry, Jr., Wilkes-Barré, Pa. Combination-tool	566,176	Aug. 18	2226	542	76	1072
Hunt, Henry and Henry, Jr., Wilkes-Barré, Pa. Tobacco-pipe	573,662	Dec. 22	2850	672	77	1872
Hunt, Henry L. (See Johnson and Hunt.)						
Hunt, Herbert E., Pittsburg, Pa. Car-controlling system	555,376	Feb. 25	2802	658	74	1077
Hunt, Herbert E., Pittsburg, Pa. Valve	555,377	Feb. 25	2803	658 659	74	1077
Hunt, John T., New York, N. Y. Electric switch	564,283	July 21	1847	432 433	76	371
Hunt, Nathaniel F. T., Braintree, Mass. Corset	556,927	Mar. 24	2578	607	74	1661
Hunt, Nathaniel F. T., Braintree, Mass. Dress-stay	556,928	Mar. 24	2579	607	74	1661
Hunt, Nathaniel F. T., Braintree, Mass. Non-refilling bottle	561,228	June 2	266	66	75	1419
Hunt, Thomas B., Chicago, Ill. Strainer for air-brakes of cars	569,203	Oct. 13	832	196	77	175
Hunt, Wilbur H., Ashtabula, Ohio. Display-cover for barrels	553,000	Jan. 14	943	228	74	191
Hunt, William. (See Phillips and Hunt.)						
Hunt, William W. (See Jerguson and Hunt.)						
Hunter, Charles N., Versailles, Ind. Shipping-refrigerator	567,141	Sept. 8	728	170	76	1432

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Hunter, David E., Cambridge, and H. E. Davidson, Watertown, Mass. Drawer and support therefor	573,978	Dec. 29	3418	819	77	1991
Hunter, Ernest H., assignor to Keystone Watch Case Company, Philadelphia, Pa. Watch-bow fastener	553,341	Jan. 21	1552	370	74	318
Hunter, Frances E., North Fitzroy, Victoria. Sad-iron	566,685	Aug. 25	3102	758	76	1254
Hunter, George E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Jewel-setting machine	555,447	Feb. 25	2938	697 698 699	74	1102
Hunter, George E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Mechanism for truing watch-balances	558,811	Apr. 21	2277	552 553	75	460
Hunter, George E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Metal-ornamenting machine	563,595	July 7	609	141 142	76	114
Hunter, George E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Recording mechanism for vibrators for testing watch-balances and hair-springs	566,177	Aug. 18	2228	543 544 545	76	1072
Hunter, Griffith, Chicago, Ill. Hoisting and stone-laying apparatus	571,122	Nov. 10	1275	295 296	77	903
Hunter, John W., Tabor, Iowa. Portable weighing-scale	570,553	Nov. 3	216	57	77	677
Hunter, Lewis T. (See May and Hunter.)						
Hunter, Robert L., and H. B. Higgins, Minneapolis, Minn. Telephone-transmitter	572,756	Dec. 8	1185	285	77	1523
Hunter, Robert L., and H. B. Higgins, Minneapolis, Minn., assignors to American Signal and Power Company, of Minnesota. Electrical annunciator	574,327	Dec. 29	4073	968 969	77	2111
Hunter, Rudolph M., Philadelphia, Pa. Bottle-filling machine	553,854	Feb. 4	74	15	74	518
Hunter, Rudolph M., Philadelphia, Pa. Bottling-machine	555,166	Feb. 25	2426	575 576	74	1007
Hunter, Rudolph M., Philadelphia, Pa. Electric regulator	560,035	May 12	1261	284 103	75	934
Hunter, Rudolph M., Philadelphia, Pa. Electric railway	566,984	Sept. 1	440	104	76	1364
Hunter, Rudolph M., Philadelphia, Pa. Combined shearing or cutting tool	570,930	Nov. 10	929	216 217	77	840
Hunter, Rudolph M., Philadelphia, Pa. Regulating-valve	571,833	Nov. 24	2492	590	77	1164
Hunter, Rudolph M., Philadelphia, Pa., assignor to General Electric Company, of New York. Electric railway	555,509	Mar. 3	41	10	74	1138
Hunter, Rudolph M., Philadelphia, Pa., assignor to General Electric Company, of New York. Electrically-actuated railway-switch	572,169	Dec. 1	131	31	77	1302
Hunter, Rudolph M., assignor to Electric Car Company of America, Philadelphia, Pa. Electric railway	556,322	Mar. 10	1524	356	74	1432
Hunter, Rudolph M., assignor to Electric Car Company of America, Philadelphia, Pa. Electric railway	562,766	June 23	2968	719	75	1990
Hunter, Rudolph M., assignor to Electric Car Company, of America, Philadelphia, Pa. Electric railway	571,832	Nov. 24	2489	590	77	1163
Hunter, Rudolph M., assignor to Electric Car Company of America, Philadelphia, Pa. Electric railway	572,706	Dec. 8	1090	265	77	1505
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Electric railway	559,175	Apr. 28	2956	714	75	607
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Instrument for measuring electric currents	570,481	Nov. 3	76	18	77	652
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Electric lamp	571,123	Nov. 10	1279	296	77	904
Hunter, Rudolph M., Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company, of Pennsylvania. Tentering-machine	568,349	Sept. 29	2840	683	76	1868
Hunter, Silas H., Cleveland, Ohio. Engine-shaft-rotation indicator	574,328	Dec. 29	4078	969	77	2112
Hunting, Francis M., Weedsport, N. Y. Corset	560,720	May 26	2544	585	75	1235
Hunting, Fred S., Fort Wayne, Ind. Alternating-current electric motor	568,350	Sept. 29	2842	683 684	76	1868
Huntington, Frank A., Oakland, Cal. Crushing-mill	556,466	Mar. 17	1799	417	74	1499
Huntington, William D., Lynn, Mass. Agricultural hand-tool	571,371	Nov. 17	1681	398	77	994
Huntley Manufacturing Company. (See Huntley, William W., assignor.)						
Huntley Manufacturing Company. (See Huntley and Wolfrom, assignors.)						
Huntley, Wesley P., Jr., Richmond, Va. Seal-lock	571,230	Nov. 10	1443	337	77	935
Huntley, William W., assignor to Huntley Manufacturing Company, Silver Creek, N. Y. Clutch	554,781	Feb. 18	1731	406	74	860
Huntley, William W., Silver Creek, and F. D. Wolfrom, Rochester, assignors, by mesne assignments, to Huntley Manufacturing Company, Silver Creek, N. Y. Grain-scourer	559,488	May 5	239	54	75	729
Hunton, Robert W., assignor to Pettee Machine Works, Newton, Mass. Machine for grinding edges of flat bars, plates, &c.	557,680	Apr. 7	282	67, 68	75	53
Hunton, Robert W., assignor to Pettee Machine Works, Newton, Mass. Means for fastening card-clothing to flats of revolving-flat carding-engines	564,691	July 28	2533	599	76	516
Huntress, Franklin E. (See Neal, James H., assignor.)						
Hupfel, Adolf G., et al. (See Kips, John, assignor.)						
Hurd, Asa. (See Van Vleet and Hurd.)						
Hurd, Charles E. (See Hurd, George L. and C. E.)						
Hurd, Frank F., Denver, Colo. Clasp for dress-shields	572,508	Dec. 1	732	174	77	1417
Hurd, Frederick, London, England. Coal-cutting or like machine	556,985	Mar. 24	2670	627	74	1679
Hurd, Frederick, London, England. Coal-cutting or like machine	556,986	Mar. 24	2672	628 629 630	74	1679
Hurd, George B., et al. (See Burkhardt, Robert W., assignor.)						
Hurd, George L. and C. E., New York, N. Y. Sash-fastener	562,536	June 23	2559	622	75	1912
Hurd, Oscar P., Syracuse, N. Y. Traveling-case	571,124	Nov. 10	1282	297	77	904
Hurd, Warren, Watkins, N. Y. Ceiling	555,097	Feb. 25	2314	550	74	984
Hurlbut, Lansing W., Creston, Iowa. Handle for knives or forks	569,831	Oct. 20	1959	466	77	397
Hurlbut, Samuel W., Creston, Iowa. Steamer and cooker	553,309	Jan. 21	1499	360	74	308
Hurlbut, Daniel N., New York, N. Y. Water-heating apparatus	562,897	June 30	3229	780	75	2056
Hurlbut, Frank, assignor of one-half to P. M. Clark, Chicago, Ill. Dental spittoon	563,664	July 7	715	168 169	76	134
Hurlbut, George K. (See Evits and Hurlbut.)						
Hurley, Daniel, assignor to C. Cooper, Bennington, Vt. Circular-knitting machine	572,679	Dec. 8	1036	251 252	77	1496
Hurley, Daniel, assignor to C. Cooper, Bennington, Vt. Stop attachment for knitting-machines	572,680	Dec. 8	1039	252	77	1496
Hurley, John J., East Syracuse, assignor of one-half to E. Magnus, Syracuse, N. Y. Anti-friction-bearing for lathe-spindles	560,001	May 12	1197	206	75	923
Hurn, William H. (See Noble, Benjamin C., assignor.)						
Hurrel, William A., Bloomdale, Ohio. Adjustable case-rest for printers' cabinets	565,274	Aug. 4	613	145	76	728

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Hurst, Harris P., Summit, Miss. Accelerating cartridge.....	562,535	June 23	2557	622	75	1911
Hurst, John M., Salt Lake City, Utah. Fluid-pressure brake.....	563,770	July 14	906	{ 216 217 }	76	185
Hurt, Edwin G., and E. M. Hostetter, Caldwell, Idaho. Means for closing punctures in pneumatic tires.....	569,757	Oct. 20	1844	437	77	376
Hurwitz & Co., Hermann. (See Rudolph, Emil, assignor.)						
Huse, Warren D. (See Garant, Henry, assignor.)						
Huson, Winfield S. (See Yates and Huson.)						
Huson, Winfield S., Taunton, Mass., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Mechanical movement.....	570,597	Nov. 3	304	75, 76	77	695
Huson, Winfield S., Taunton, Mass., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Machine for printing from colotype or albertype plates.....	573,596	Dec. 22	2704	{ 641 642 765 766 }	77	1845
Huss, Hermann C. O., Princeton, N. J. Combined napkin holder and ring.....	559,289	Apr. 28	3172	{ 765 766 }	75	646
Huss, Jacob B., Spring Valley, Ill. Safe.....	553,120	Jan. 14	1155	280	74	231
Hussey, Charles A., New York, N. Y. Bicycle-tire.....	571,444	Nov. 17	1799	{ 429 430 }	77	1016
Hussey, Charles A., assignor to Electric Hardware Manufacturing Company, New York, N. Y. Magnetizing-box for hair-pins.....	559,176	Apr. 28	2958	714	75	607
Hussey, Curtis G., et al. (See Burton, Charles C., assignor.)						
Hussey, George B., Providence, R. I. Adjustable handle.....	558,074	Apr. 14	1024	249	75	209
Hussey, John W., assignor of one-half to C. W. Seamans, Brooklyn, N. Y. Apparatus for making wedges.....	573,466	Dec. 22	2482	{ 588 589 590 }	77	1802
Hussey, Joseph, Madison, Wis. Filter for gasoline-stoves.....	555,482	Feb. 25	3003	715	74	1114
Hussey, Levi, assignor to Mining and Dredging Power Company, New York, N. Y. Dredging apparatus.....	555,704	Mar. 3	372	86	74	1196
Huston, William C., assignor of one-half to B. Sternberg, Philadelphia, Pa. Box-tool.....	563,377	July 7	244	55	76	49
Hutchings, John H., Lowestoft, England. Collapsible boat.....	568,255	Sept. 22	2675	641	76	1820
Hutchins, Abner B., assignor to J. D. Luther and C. Lederhos, New York, N. Y. Gasoline-stove.....	570,482	Nov. 3	78	18, 19	77	652
Hutchins, George F., assignor to Knowles Loom Works, Worcester, Mass. Loom.....	555,705	Mar. 3	374	87	74	1196
Hutchins, George F., assignor to Knowles Loom Works, Worcester, Mass. Reversing mechanism for looms.....	560,036	May 12	1265	{ 284 285 }	75	935
Hutchins, J. W. (See Reeves, Newell A., assignor.)						
Hutchinsen, Robert W., et al. (See Anderson, Isaac, assignor.)						
Hutchinson, Charles G., New York, N. Y. Beltway.....	558,180	Apr. 14	1190	{ 290 291 }	75	242
Hutchinson, John B., Columbia, Pa. Damper-regulator.....	570,804	Nov. 3	697	159	77	767
Hutchinson, Philip H., Jr., Stono, S. C. Thrust-bearing.....	566,178	Aug. 18	2232	545	76	1073
Hutchinson, Philip H., Jr., Stono, S. C. Pump.....	566,179	Aug. 18	2232	545	76	1073
Hutchinson, Samuel P., Philadelphia, Pa. Boiler-furnace.....	570,998	Nov. 10	1039	243	77	860
Hutchinson, Samuel P., and S. L. Wiegand, Philadelphia, Pa.; said Wiegand assignor to said Hutchinson. Steam-furnace.....	570,999	Nov. 10	1040	244	77	861
Hutchinson, William F., Passaic, N. J. Wood-cutting machine.....	552,614	Jan. 7	191	52, 53	74	38
Hutchinson, William F., New York, N. Y. Lighting cars.....	554,697	Feb. 18	1585	373	74	834
Hutchinson, William F., New York, N. Y. Boxing-machine.....	569,133	Oct. 6	714	168	77	136
Hutchinson, William F., New York, N. Y. Shuck-gluing machine.....	571,321	Nov. 10	1598	379	77	965
Hutchison, John, et al. (See Norton, John S., assignor.)						
Hutchison, John, Jackson, Mich. Mounting and driving bolting-reels.....	573,412	Dec. 15	2338	559	77	1758
Hutchison, John W., Gower, Mo. Woven-wire stretcher.....	573,150	Dec. 15	1872	451	77	1673
Hutchison, William E., Litchfield, Ill. Quilting-frame for sewing-machines.....	566,320	Aug. 25	2467	605	76	1134
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Electricité, Paris, France. Alternating-current motor.....	553,469	Jan. 21	1760	420	74	358
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Electricité, Paris, France. Converter of frequency for alternating electric currents.....	557,094	Mar. 24	2863	684	74	1717
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Electricité, Paris, France. Alternating-current dynamo.....	564,200	July 21	1707	399	76	347
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Electricité, Paris, France. Alternating-current motor.....	571,478	Nov. 17	1856	442	77	1026
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Electricité, Paris, France. Method of and apparatus for transforming alternating electric currents.....	572,510	Dec. 1	734	{ 175 176 177 }	77	1417
Huttenbach, Adolf, Frankfort-on-the-Main, Germany. Means for filing letters.....	553,678	Jan. 28	2131	{ 504 505 }	74	441
Hutter, Karl, New York, N. Y. Bottle-stopper.....	562,225	June 16	2048	495	75	1880
Huttinger, Ambrose, Cleveland, Ohio. Couch or bed hinge.....	571,194	Nov. 10	1344	323	77	924
Hutton, Caroline L., St. Louis, Mo. Bed-pan.....	569,922	Oct. 20	2111	502	77	425
Hutton, George E., Delphos, Kans. Horse-checking device.....	565,681	Aug. 11	1348	328	76	887
Hutton, John, et al. (See Mummery, Edwin G., assignor.)						
Hutton, Robert W., et al. (See Wilday, John H., assignor.)						
Huxtable, James, assignor to M. J. Huxtable, Hornings Mills, F. H. Silk, and R. A. Riky, Shelburne, Canada. Corn-holder.....	563,771	July 14	909	217	76	186
Huxtable, Mary J., et al. (See Huxtable, James, assignor.)						
Hayck & Sons, F. C. (See Spencer, George A., assignor.)						
Hazelstein, Joseph. (See Lotz and Hazelstein.)						
Hyatt, John W., Newark, N. J. Rope belting and fastener therefor.....	566,455	Aug. 25	2762	671	76	1189
Hyatt, John W., assignor to Hyatt Roller Bearing Company, Newark, N. J. Shaft-hanger box for spring-roller bearings.....	555,510	Mar. 3	45	10	74	1139
Hyatt Roller Bearing Company. (See Hyatt, John W., assignor.)						
Hyde, Edwin R., Bridgeport, Conn. Bearing for emery-wheel shafts.....	560,214	May 19	1599	362	75	1049
Hyde, George H., Baltimore, Md. Inkstand.....	564,201	July 21	1709	400	76	347
Hyde, John E. H., New York, N. Y. Mechanism for operating car-couplings.....	566,398	Aug. 25	2624	641	76	1164
Hyde, Theophilus R., Jr. (See Shipley and Hyde.)						
Hyde Windlass Company. (See Andrews, Jacob R., assignor.)						
Hydraulic Elevator Company. (See Bassett, Norman C., assignor.)						
Hydraulic Press Brick Company. (See Graves, Willis N., assignor.)						
Hygienic Wheel Company. (See Travis, Charles L., assignor.)						
Hyle, Henry A., Redwood, N. Y. Axle-box.....	554,186	Feb. 4	703	153	74	634
Hyle, Nettie, Syracuse, N. Y. Hook and eye.....	573,879	Dec. 29	3222	760	77	1956
Hyre, Edward B. (See Board and Hyre.)						
Hylop, Ellie M., Manchester, Va. Cigar-roller's clamp.....	564,751	July 23	2653	631	76	536
I. B. Kleimert Rubber Company. (See Basch, David, assignor.)						
Ide, Albert L., Springfield, Ill. Engine.....	569,832	Oct. 20	1960	467	77	397

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Ide, Francis P., Eau Claire, Wis. Armature for dynamo-electric machines.....	561,590	June 9	948	{ 226 227 528 }	75	1575
Ide, John R., Salisbury, N. C. Pneumatic signaling-valve screen-cleaning device.....	562,301	June 16	2173	{ 226 227 528 }	75	1824
Ideal Manufacturing Company. (See Bush, Hiram T., assignor.)						
Idler, Charles A., Atlantic City, assignor of one-half to J. Q. Adams, Atco, N. J. Artificial slide and lake and conveyer therefor.....	572,426	Dec. 1	608	144	77	1393
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Controlling device for elevators.....	558,075	Apr. 14	1025	250	75	210
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Electromagnetic dash-pot.....	560,216	May 19	1603	{ 362 363 }	75	1050
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Electric automatic stop for elevators.....	560,217	May 19	1607	363	75	1051
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Safety device for electric motors.....	560,503	May 19	2115	484	75	1140
Ihrig, Louis G., Seattle, Wash. Bed-lounge.....	559,778	May 5	740	178	75	821
Iles, George, Lowell, Mass. Cloth-spreader for dyeing-machines.....	562,831	June 30	3106	752	75	2032
Iles, Malvern W., Denver, Colo. Apparatus for condensing metalliferous fumes.....	553,989	Feb. 4	341	75	74	568
Iles, Malvern W., Denver, Colo. Blast-furnace.....	557,127	Mar. 31	2924	{ 699 700 }	74	1752
Iles, Malvern W., Denver, Colo. Apparatus for separating matte from slag.....	558,647	Apr. 21	1990	483	75	408
Iles, Malvern W., Denver, Colo. Apparatus for separating matte from slag.....	558,648	Apr. 21	1991	483	75	408
Iles, Malvern W., Denver, Colo. Apparatus for saving metallic fumes.....	559,453	May 5	185	40, 41	75	717
Iliff, Robert W., Washburn, Ill. Hay elevator or carrier.....	585,990	Aug. 18	1930	467	76	1017
Ill, Henry. (See Neubirth and Ill.)						
Illian, Jacob J. (See Barron, Moses J., assignor.)						
Illingworth, Rochester. (See Clough and Illingworth.)						
Illingworth, Harry I., Lynn, assignor to C. E. Riley, Newton, Mass. Sewing-machine....	573,880	Dec. 29	3223	{ 767 768 }	77	1956
Illinois Malleable Iron Company. (See Grosche and Walther, assignors.)						
Imbertson, Martin, and J. A. Carlson, Duluth, Minn. Combined bedstead-fastening and bed-spring support.....	555,042	Feb. 18	2207	526	74	947
Imhof, George, Philadelphia, Pa. Cloth-cutting machine.....	573,186	Dec. 15	1935	{ 465 466 }	77	1685
Imhoff, Ludwig, Berlin, Germany. Apparatus for varying speed of electromotors.....	573,979	Dec. 29	3420	820	77	1992
Imler, Joseph, Kendallville, Ind. Vehicle pole and coupling.....	570,020	Oct. 27	2282	542	77	469
Imler, Joseph, Kendallville, Ind. Cross-bar for thills.....	570,021	Oct. 27	2283	542	77	470
Immel, Justus, Walnut, Ill. Combined grain dump and elevator.....	555,954	Mar. 10	808	194	74	1300
Immendorf, George H., and A. H. Engstrom, Philadelphia, Pa.; said Engstrom assignor to said Immendorf. Tank-pump governor.....	569,134	Oct. 6	716	168	77	136
Immendorf, George H., and A. H. Engstrom, Philadelphia, Pa.; said Engstrom assignor to said Immendorf. Boiler-feed-pump governor.....	571,834	Nov. 24	2493	{ 590 591 }	77	1164
Implement Dealers Manufacturing Company. (See Butler, John A., assignor.)						
Improved Match Company. (See Anderson, Andrew, assignor.)						
Ince, Charles E., Providence, R. I. Filter.....	555,773	Mar. 3	474	114	74	1216
Inch, Philip, Washington, D. C., assignor, by mesne assignments, to Consolidated Sterilizing Incandescent Gas Lamp Company, of New Jersey. Process of and machine for making mantles or hoods for incandescent gas-lights.....	571,372	Nov. 17	1682	{ 398 399 }	77	994
Inderlied, Edward C. (See Peake and Inderlied.)						
Indestructible Type Company. (See West, John, assignor.)						
Indiana Bicycle Company. (See Hadley, Charles E., assignor.)						
Indiana Manufacturing Company. (See Behrens, Henry, assignor.)						
Indiana Manufacturing Company. (See Bufkin, Samuel, assignor.)						
Indiana Manufacturing Company. (See Smith, John S., assignor.)						
Indianapolis Chain and Stamping Company. (See Test, Charles E., assignor.)						
Indianapolis Wrench and Stamping Company. (See Courtright and Meggenhofen, assignors.)						
Ingalls, Willis A., Manchester, N. H. Stop-motion for knitting-machines.....	571,479	Nov. 17	1858	442	77	1027
Ingalsbe, Edwin S., Wheaton, Kans. Tea-kettle cover.....	574,329	Dec. 29	4079	969	77	2112
Ingargiola, Augustus M., San Francisco, assignor of one-half to C. Baker, Oakland, Cal. Blacking-brush.....	558,390	Apr. 14	1551	378	75	310
Ingersoll-Sergeant Drill Company. (See Sergeant, Henry C., assignor.)						
Ingham, Edwin A. (See Allman and Ingham.)						
Ingleby, John, Leeds, England. Machine for manufacturing linoleum, &c.....	553,342	Jan. 21	1554	371	74	318
Ingleby, John, Leeds, England. Machine for manufacturing inlaid linoleum or like fabrics.....	561,400	June 2	599	{ 149 150 }	75	1484
Ingleton, Edward, Pottstown, Pa. Steam plowing apparatus.....	557,822	Apr. 7	532	{ 127 128 }	75	100
Inglis, Charles A. (See Gerhart, William R., assignor.)						
Inglis, David, et al. (See Howe, Solon G., assignor.)						
Inglish, William H., East Tawas, Mich. Sawmill.....	557,391	Mar. 31	3407	{ 818 819 }	74	1839
Ingraham, Charles W., assignor of one-half to H. Warren, Heppner, Oreg. Carbureter....	569,460	Oct. 13	1270	299	77	256
Ingram, Franklin W. (See Jancey and Ingram.)						
Ingram, Nathan D., Holyoke, Mass. Wick-tube for lamps.....	561,789	June 9	1311	314	75	1642
Ingram, Oliver. (See Schwechler and Ingram.)						
Ingram, Sterling P., San José, Cal. Rotary engine.....	553,408	Jan. 21	1661	397	74	339
Ingrey, Charles, London, England. Coin-freed apparatus.....	567,239	Sept. 8	876	{ 209 210 }	76	1458
Inman, David W., Versailles, Ohio. Hog scalding and suspending apparatus.....	563,965	July 14	1282	{ 300 301 }	76	253
Inman, David W., Versailles, Ohio. Hog-scalding apparatus.....	568,028	Sept. 22	2270	549	76	1745
Inman, Harry A. (See Inman, Horace and H. A.)						
Inman, Harry A., Amsterdam, N. Y. Box-staying machine.....	555,817	Mar. 3	550	132	74	1230
Inman, Harry A., Amsterdam, N. Y. Corner-staying machine.....	555,818	Mar. 3	551	132	74	1231
Inman, Harry A., Amsterdam, N. Y. Machine for applying flies to paper boxes.....	566,583	Aug. 25	2948	720	76	1225
Inman, Horace, Amsterdam, N. Y. Box-staying machine.....	555,814	Mar. 3	545	131	74	1229
Inman, Horace, Amsterdam, N. Y. Box-staying machine.....	555,815	Mar. 3	546	131	74	1229
Inman, Horace, Amsterdam, N. Y. Box-staying machine.....	555,816	Mar. 3	548	131	74	1230
Inman, Horace, Amsterdam, N. Y. Machine for gluing or pasting sheets of paper.....	558,955	Apr. 28	2531	614	75	526
Inman, Horace and H. A., Amsterdam, N. Y. Machine for applying adhesive strips to boxes, &c.....	555,811	Mar. 3	536	{ 129 130 }	74	1227
Inman, Horace and H. A., Amsterdam, N. Y. Box-staying machine.....	555,812	Mar. 3	539	130	74	1228
Inman, Horace and H. A., Amsterdam, N. Y. Box-staying machine.....	555,813	Mar. 3	542	{ 130 131 }	74	1228

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Inman, Robert W. (See Rider, Herbert E., assignor.)						
Innes, Robert H., San Antonio, Tex. Automatic repeating railway-signal.	553,733	Jan. 28	2232	{ 528 529 }	74	460
Inns, Charles, <i>et al.</i> (See Williams, John S., assignor.)						
Insull, Samuel. (See King, Charles G. Y., assignor.)						
Insull, Samuel. (See Turner, William B., assignor.)						
Interchangeable Brake Beam Company. (See Aglar, Francis B., assignor.)						
Interchangeable Frameless Spectacle Company. (See Essick, Walter S., assignor.)						
Interchangeable Frameless Spectacle Co. (See Essick and Rees, assignors.)						
Interior Conduit and Insulation Company. (See Greenfield, Edwin T., assignor.)						
Interior Telephone Company. (See Colvin, Frank R., assignor.)						
International Automatic Air Brake Coupler Company. (See Summers, Smith W., assignor.)						
International Electrical Company. (See Murphy and Pierce, assignors.)						
International Gas and Fuel Company. (See Armstrong, John R., assignor.)						
International Gas and Fuel Company. (See Scoville, Eugene M., assignor.)						
International Postal Supply Company of New York. (See Dolphin, Matthew J., assignor.)						
International Rolling Screen Company. (See Crocker, James A., assignor.)						
International Scale Works. (See Raab, William, assignor.)						
International Sweeping Machine Company. (See Branth, Johan F. S., assignor.)						
International Sweeping Machine Company. (See Graham, David F., assignor.)						
International Sweeping Machine Company. (See Hawks, Erastus L., assignor.)						
International Sweeping Machine Company. (See Hawks and Graham, assignors.)						
Internationale Electricitätswerke und Accumulatoren-Fabrik Actien-Gesellschaft. (See Schäfer and Heinemann, assignors.)						
Inventors Manufacturing and Trading Company. (See Melville, George W., assignor.)						
Ipson, George, Huntington, Utah. Bug and flea trap.	554,490	Feb. 11	1231	288	74	749
Ipson, George, Huntington, assignor to D. C. Robbins, Salt Lake City, Utah Ter. Sediment or sand trap.	552,877	Jan. 7	718	175	74	134
Iredale, James, Toronto, Canada. Bottle-filling device.	553,734	Jan. 28	2234	529	74	461
Ireland, A. Bertsell, Greene, N. Y. Clutch.	565,002	Aug. 4	72	17	76	631
Ireland, Joseph W. (See Ireland, William M., assignor.)						
Ireland, Robert H., New York, N. Y. Device for operating shutters.	572,804	Dec. 8	1271	306	77	1539
Ireland, William M., St. Louis, Mo., assignor of one-half to J. W. Ireland, Quincy, Ill. Building structure.	556,676	Mar. 17	2139	{ 498 499 }	74	1562
Ireys, Harriet B., Minneapolis, Minn. Belt.	573,515	Dec. 22	2560	608	77	1816
Irish, Lemuel E., assignor of two-thirds to D. K. Black and G. R. Slawson, Greenville, Mich. Hammock.	566,180	Aug. 18	2233	545	76	1073
Irrgang, Max R., Chicago, Ill. Bottle-washer.	568,685	Sept. 29	3457	827	76	1982
Irvine, George W., <i>et al.</i> (See Traves, Webster F., assignor.)						
Irvine, John E., Brooklyn, N. Y. Game apparatus.	569,102	Oct. 6	661	153	77	126
Irvine, Robert, Jr., West Hartlepool, England. Umbrella-tent.	574,091	Dec. 29	3616	865	77	2028
Irvine, William A., <i>et al.</i> (See Traves, Webster F., assignor.)						
Irwin, Hiram. (See Kelleher and Irwin.)						
Irwin, Joseph, Omaha, Nebr. Electric railway-signal system.	555,167	Feb. 25	2431	576	74	1007
Irwin, William T., Bonus, Ill. Corn-husking machine.	566,181	Aug. 18	2235	246	76	1074
Isaac, Sam, Milwaukee, Wis. Syringe.	561,318	June 2	448	111	75	1457
Isaacs, Archibald E., New York, N. Y. Corn-plaster.	585,901	Aug. 18	1735	425	76	976
Isaacs, John D. (See Curtis and Isaacs.)						
Isaacson, Harry M. (See Livingston, Edward, assignor.)						
Isel, Nicolas, Chaux-de-Fonds, Switzerland. Filtering material for purifying alcohols, oils, or other substances.	556,578	Mar. 17	1997	-----	74	1535
Isenthal, Leo R., <i>et al.</i> (See Kuhlewind, Cornelius, assignor.)						
Isherwood, Alfred, New Bedford, Mass. Loom-shuttle.	561,319	June 2	449	111	75	1457
Isherwood, Alfred, New Bedford, Mass. Loom-shuttle.	563,179	June 30	3734	894	75	2156
Isidor, Moritz, New York, N. Y. Trunk-caster.	568,535	Sept. 29	3175	764	76	1928
Iske, Albert. (See Iske, Anthony and A.)						
Iske, Anthony and A., Lancaster, Pa. Car-fender.	560,317	May 19	1794	409	75	1082
Isley, William H., Jersey City, N. J., assignor to D. Wood, Brooklyn, N. Y. Cigar-bunching machine.	572,170	Dec. 1	134	32	77	1303
Israel, Adolph. (See Blank, Israel, and Herzberg.)						
Israel, Adolph. (See Herzberg, Blank, and Israel.)						
Israel, Earl H., assignor to L. M. Rumsey Manufacturing Company, St. Louis, Mo. Bracket for supporting tank-pipes.	553,161	Jan. 14	1226	298	74	245
Israel, Earl H., assignor to L. M. Rumsey Manufacturing Company, St. Louis, Mo. Pipe-hanger.	558,391	Apr. 14	1552	378	75	310
Ivens, William H., Jr., assignor to J. C. Bloom and J. F. Godley, Trenton, N. J. Bed-spring.	554,822	Feb. 18	1805	423	74	876
Iver Johnson's Arms and Cycle Works. (See Johnson, Frederick I., assignor.)						
Ivers & Pond Piano Company. (See Ivers, William H., assignor.)						
Ivers, William H., Dedham, Mass. Attachment for piano sounding-boards.	554,878	Feb. 18	1907	448	74	894
Ivers, William H., Dedham, assignor to Ivers & Pond Piano Company, Boston, Mass. Thimble.	554,879	Feb. 18	1908	449	74	894
Iverson, Iver, Minneapolis, Minn. Combination-lock.	563,039	June 30	3482	837	75	2109
Ives, Albert C., London, England. Billiard-table.	572,545	Dec. 8	797	191	77	1445
Ives & Co., Hobart B. (See Buell, Charles O., assignor.)						
Ives, Harry C., Bridgeport, Conn. Toy team of horses.	564,789	July 28	2714	645	76	547
Ives, John F., Cleveland, Ohio. Mold for making pneumatic tires and covers for same.	557,128	Mar. 31	2925	700	74	1752
Ives & Williams Company. (See Hotchkiss, Charles A., assignor.)						
Ivy, Robert W., New London, N. C. Cotton-picker.	563,351	Sept. 29	2843	684	76	1868
Iwan, Louis, Streator, Ill. Ditching-spade.	573,597	Dec. 22	2706	642	77	1846
J. A. Fay & Egan Company. (See Seebohm, Edgar C., assignor.)						
J. A. Lamy Manufacturing Company. (See Raiffeisen, Carl J., assignor.)						
J. F. Pease Furnace Company. (See Pease, John F., assignor.)						
J. F. Pease Furnace Company. (See West, Ephraim K., assignor.)						
J. H. Williams & Company. (See Amborn, George, Jr., assignor.)						
J. I. Case Plow Works. (See Sobey, William, assignor.)						
J. I. Case Threshing Machine Company. (See Dingee, William W., assignor.)						
J. L. Mott Iron Works. (See Mott, Jordan L., Jr., assignor.)						
J. M. Carpenter Tap and Die Company. (See Carpenter, James M., assignor.)						
J. Thompson & Sons Manufacturing Company. (See Jones, Judson R., assignor.)						
J. W. Sefton Manufacturing Company. (See Hollett, Ira W., assignor.)						
Jaberg, Frank A., New Philadelphia, Ohio. Jar-fastener.	574,330	Dec. 29	4080	969	77	2112
Jaberg, Frank A., assignor of one-half to J. Gilgen, New Philadelphia, Ohio. Riveting-machine.	553,284	Jan. 21	1461	351	74	301

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Jablonsky, Edmund A., Brooklyn, N. Y. Bale-tie fastener	554,127	Feb. 4	610	138	74	616
Jack, Hartley H., Hollidaysburg, Pa. Manufacture of seamless tubing	562,728	June 23	2909	706	75	1377
Jack, Joseph H., Dayton, Ohio. Dumping-wagon	572,344	Dec. 1	450	106	77	1364
Jackman, Josephine C. (See Ryan, Michael B., assignor.)						
Jackman, Lemuel N., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Adjustable cutter-head and jewel-burnisher	552,687	Jan. 7	329	88	74	65
Jackman, Stephen E., Brooklyn, N. Y. Inclined railway and water tobogganing apparatus	566,182	Aug. 18	2236	246 247	76	1074
Jackman, Wilbert J., Lima, Ohio. Hydrocarbon-burner	562,537	June 23	2560	622	75	1912
Jacks, Richard, Quincy, Cal. Combined pruning, clipping, and holding implement	569,284	Oct. 13	977	234	77	202
Jackson, Albert, North Fitzroy, Victoria. Tube or pipe cleaner	572,994	Dec. 15	1594	382	77	1620
Jackson, Ambrose F., Oklahoma, Okla. Ter. Gang or sulky plow attachment	562,832	June 30	3108	752 753	75	2033
Jackson, Ambrose F., Oklahoma, Okla. Ter. Pipe-wrench	572,757	Dec. 8	1186	285	77	1523
Jackson, Bertha A. (See Börreson, Börre H., assignor.)	573,663	Dec. 22	2851	672	77	1872
Jackson, Charles C., Erie, Pa. Vise	563,040	June 30	3485	837	75	2110
Jackson, Charles L., and E. W. Hunt, Bolton, England. Apparatus for washing piece goods	558,690	Apr. 21	2074	501 502	75	423
Jackson, Charles O., Fairmont, W. Va. Safety gas-valve	563,966	July 14	1285	301	76	254
Jackson, Charles S., Paulding, assignor of one-half to M. L. Hughes, Sutton, W. Va. Car-brake	559,332	Apr. 28	3250	784 785	75	661
Jackson & Church. (See Hitzert, Albert, assignor.)						
Jackson, Demas H., assignor of one-half to G. H. Wilcox, North Adams, Mich. Roller or sliding door holder	562,470	June 23	2460	597	75	1893
Jackson, Dugald C., and C. M. Conradson, Madison, Wis. Electric motor	552,961	Jan. 14	882	213 214	74	179
Jackson, Edgar B., Kansas City, Mo. Count-indicator for live-stock scales	563,772	July 14	910	217	76	186
Jackson, Frederick F., Chicago, Ill. Device for automatically controlling closing hatch-way or other doors	554,517	Feb. 11	1271	298	74	756
Jackson, Frederick F., Richmond, Ind. Device for automatically controlling closing hatch-way or other doors	563,180	June 30	3736	894	75	2157
Jackson, George A., D. Perrine, and R. P. Matthews, Eaton Rapids, Mich. Tilting colter for plows	556,754	Mar. 24	2288	538	74	1607
Jackson, Henry A., Washington, D. C. Kitchen-table	569,135	Oct. 6	718	169	77	137
Jackson, Huseon T. (See Lugo and Jackson.)						
Jackson, John, Clinton, Iowa. Electrical propulsion for street or other cars	553,529	Jan. 28	1875	444	74	396
Jackson, John A., and G. S. White, Toronto, Canada. Mangle	570,404	Oct. 27	3021	716	77	609
Jackson, John B., et al. (See Seddon, Charles R., assignor.)						
Jackson, John B., assignor to E. Stokes, Jr., trustee, Philadelphia, Pa. Electric gas-lighting device	556,189	Mar. 10	1261	294	74	1382
Jackson, John L. (See McGregor and Jackson.)						
Jackson, Larkin H., and W. E. Rhegness, Dyer, Tenn. Harrow	571,164	Nov. 10	1339	312	77	916
Jackson, Louis A., assignor to Acme Electric Lamp Company, New York, N. Y. Electric lamp	572,805	Dec. 8	1272	306	77	1539
Jackson, Milton, and A. Taylor, assignors to D. K. Miller Lock Company, Philadelphia, Pa. Padlock	572,115	Dec. 1	35	9	77	1284
Jackson, Percy B., Newburyport, Mass. Combination-divan	571,000	Nov. 10	1042	244	77	861
Jackson, Robert L., McKinney, Tex. Plow-scraper	563,378	July 7	247	55	76	50
Jackson, Samuel. (See Rosenberger and Jackson.)						
Jackson Typewriter Company. (See Steiger, Andrew W., assignor.)						
Jackson, Uriah S., assignor of one-half to H. W. Hobbs, Ossipee, N. H. Detachable fixture-bar for window-curtains	559,582	May 5	392	94	75	759
Jackson, W. R., et al. (See King, Calvin W., assignor.)						
Jackson, Walter P. (See McCann, Howard L., assignor.)						
Jackson, William H., assignor to J. Marshall, Fall River, Mass. Staple forming and driving machine	573,329	Dec. 15	2201	526 527	77	1732
Jackson, William H., and B. N. Moss, Des Moines, Iowa. Water-tower	572,995	Dec. 15	1595	382	77	1620
Jackson, William R., Seville, Ga. Cotton-chopper	567,345	Sept. 8	1093	263	76	1497
Jackson, William R. P. (See Gilliland and Jackson.)						
Jackson, William W., assignor to J. Livingston and A. H. Gross, New York, N. Y. Bushing-valve for beer-barrels	561,320	June 2	451	112	75	1457
Jacob, Robert W., Jr., St. Louis, Mo. Filtering apparatus	555,098	Feb. 25	2315	550	74	985
Jacobi, Emil, Philadelphia, Pa. Lubricator	555,246	Feb. 25	2567	603	74	1032
Jacobi, Emil, New Britain, Conn. Vegetable-slicer	562,613	June 23	2712	656 657	75	1940
Jacobowitz, Mayer, Keyport, N. J. Necktie	569,498	Oct. 13	1336	315	77	268
Jacobs, Benjamin W., Chicago, Ill. Nail-file	569,285	Oct. 13	978	235	77	202
Jacobs, Henry L., Columbus, Ohio. Tongue for wheeled scrapers	556,753	Mar. 24	2287	537	74	1607
Jacobs, James W., Jeffersonville, Ind. Vehicle-wheel	561,892	June 9	1486	358	75	1676
Jacobs, James W., Jeffersonville, Ind. Lock bottle-stopper	572,758	Dec. 8	1188	286	77	1523
Jacobs, Robert. (See Kimball, Handley B., assignor.)						
Jacobs, William H., et al. (See Knauss, Uriah A., assignor.)						
Jacobs, William J., Bangersville, Ind. Device for attaching stay-wires to wire fences	555,914	Mar. 3	728	176	74	1265
Jacobsen, Lars P., Montpelier, Idaho. Kneading-machine	553,162	Jan. 14	1227	299	74	245
Jacobson, Edward B., assignor to himself, E. Blasser, Boston, D. J. and M. L. Scannell, Lynn, Mass. Hair-curling iron	565,991	Aug. 18	1932	467	76	1017
Jacobson, Leon. (See Blumberg and Jacobson.)						
Jacobson, Morris S., New York, N. Y. Razor attachment	570,598	Nov. 3	309	76	77	696
Jacobson, Peter, and C. E. Cain, Milwaukee, Wis. Street-sweeper	569,644	Oct. 20	1625	383 384	77	338
Jacobson, Peter L., Milwaukee, Wis. Sleeve-holding device	556,503	Mar. 17	1875	437	74	1513
Jacobus, Alvah B., Udall, Kans. Trimming attachment for sewing-machines	570,805	Nov. 3	698	159	77	767
Jacobus, James W., Great Neck, N. Y. Inkstand	571,046	Nov. 10	1122	262	77	876
Jacobus, Peter H., Millstadt, Ill. Middlings-purifier	553,285	Jan. 21	1462	351	74	302
Jacobus, Peter H., Millstadt, Ill. Car-mover	555,076	Apr. 14	1027	250	75	210
Jacoby, Josiah, assignor of one-half to J. W. Morse, Lodi, Ohio. Tool for tightening spokes	564,151	July 14	1613	378	76	317
Jacoby, Sellmar M., New York, N. Y. Sewing-machine	559,978	May 12	1153	257 258	75	916
Jacoby, Sellmar M., New York, N. Y. Fur-sewing machine	562,538	June 23	2561	622 623	75	1912
Jacques, James, assignor, by mesne assignments, to Columbia Cash Register Company, Lowell, Mass. Cash indicator, register, and check-printer	555,043	Feb. 18	3203	526 527 528	74	948

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Jacques, James, assignor to Jacques Store Equipment Company, Lowell, Mass. Pneumatic-despatch tube	564,427	July 21	2092	{ 489 490	76	416
Jacques, James, and C. S. Trask, Lowell, assignors to Columbia Cash Register Company, Portland, Me. Cash register and indicator	568,764	Oct. 6	91	21, 22	77	20
Jacques Store Equipment Company. (See Jacques, James, assignor.)						
Jacques, William W., Newton, Mass. Converting potential energy of carbon into electrical energy	555,511	Mar. 3	46	10	74	1139
Jaeger, Alexander, Philadelphia, Pa. Coin-detector for automatic vending-machines	564,824	July 28	2769	653	76	557
Jaeger, Charles L., Maywood, N. J. Electric recording instrument for ships' compasses and logs	556,987	Mar. 24	2676	631	74	1690
Jaeger, Gustav L., Maywood, N. J., assignor to Brewing Improvement Company, Maywood, N. J., and New York, N. Y. Hop-drier	556,150	Mar. 10	1188	278	74	1369
Jaeger, Heinrich W. F., Sandusky, Ohio. Car-door	554,932	Feb. 18	1998	473	74	911
Jaennigen, Max, Mödling, Austria-Hungary. Steam-radiator	552,643	Jan. 7	236	65, 66	74	46
Jäger, Adolf C., Tyssa, Austria-Hungary. Garment-hanger	554,066	Feb. 4	473	106	74	591
Jagielski, Wladislaw F., Hanover, Germany, assignor to Singer Manufacturing Company, of New Jersey. Fancy-stitch sewing-machine	573,881	Dec. 29	3228	{ 768 769	77	1957
Jahant, Augustus, assignor of one-half to J. C. Weber, Akron, Ohio. Draft attachment for furnaces	569,204	Oct. 13	835	196	77	175
Jahn, Charles F., Pittsburg, Pa. Car-fender	564,692	July 28	2534	{ 599 600	76	516
Jahn, Robert, Scotch Plains, N. J. Roof-valley	571,565	Nov. 17	2014	479	77	1054
Jahnsan, Gustaf E., New York, N. Y. Carpenter's reel	560,799	May 26	2681	616	75	1261
Jahnsen, Otto, and G. Meinhardt, New York, N. Y., assignors to said Jahnsen. Carving-machine	571,566	Nov. 17	2015	479	77	1054
Jakobson, Max, New York, N. Y. Tandem attachment for bicycles	552,907	Jan. 14	791	191	74	161
Jakson, Charles, Philadelphia, Pa. Rein-guard	570,097	Oct. 27	2429	576	77	499
James A. Banister Company. (See Benjamin, William T., assignor.)						
James D. Mason Company of Baltimore City. (See Drake, Newman E., assignor.)						
James, David A., Lawrenceburg, Ind. Power-transmitting device	561,953	June 9	1590	385	75	1696
James, Edward B., assignor of one-half to W. R. Pittman, Thomasville, Ga. Plow	553,914	Feb. 4	216	46	74	545
James, Fred S., et al. (See Miles, Melvin T., assignor.)						
James, Frederic T., New York, N. Y. Detergent composition	556,847	Mar. 24	2438	.....	74	1636
James, John D. (See Holstein and James.)						
James, John E., et al. (See Burgis, Thomas C., assignor.)						
James, Reginald W., et al. (See Cox and Crowley, assignors.)						
James, Walter, Leeds, England. Valve for hydraulic apparatus, &c	556,419	Mar. 17	1707	{ 398 399	74	1482
James, William F., Quintana, Tex. Life-boat	566,766	Sept. 1	56	14, 15	76	1291
Jameson, Alexander, Indianapolis, Ind. Bicycle	565,542	Aug. 11	1092	263	76	839
Jameson, Anthony J. and J. Bryan, Ohio. Convertible shelf and table	554,187	Feb. 4	704	159	74	634
Jameson, Joseph. (See Jameson, Anthony J. and J.)						
Jameson, William A., Niagara Falls, N. Y. Swivel	556,929	Mar. 24	2580	607	74	1661
Jameson, James, and R. Gray, Pittsburg, Pa. Car-brake	568,908	Oct. 6	324	75	77	62
Jameson, Marcus W., Warren, Pa. Pulley	564,752	July 28	2655	631	76	537
Jameson, Robert W., Rochester, N. Y. Sheet-delivery apparatus for printing-machines	563,967	July 14	1286	301	76	234
Jamison, James H. (See Cason and Jamison.)						
Jamison, Wheeler M., and F. Tuttle, Auburn, Ky. Apparatus for making tufted articles	572,759	Dec. 8	1189	286	77	1523
Jancey, William L., and F. W. Ingram, Chicago, Ill. Steam-trap	554,698	Feb. 18	1586	373	74	834
Jandus Electric Company. (See Lean, George R., assignor.)						
Jandus Electric Company. (See Lean, George R., assignor.) (Reissue.)						
Jandus, William, Cleveland, Ohio. Electric-arc lamp	562,721	Sept. 29	3513	{ 842 843	76	1994
Janeway, John L., deceased, Oaks; P. W. Janeway and T. L. Hodge, administrators, assignors to Phoenix Gas and Improvement Company, Philadelphia, Pa. Manufacturing gas	571,269	Nov. 10	1512	{ 357 358	77	948
Janeway, Price W., et al., administrators. (See Janeway, John L.)						
Janisch, William, Chicago, Ill. Garment-fastener	564,693	July 28	2535	601	76	516
Janney, George C., Muncie, Ind. Check-wire reel for corn-planters	556,268	Mar. 10	1403	{ 329 330	74	1410
Janney, George C., Muncie, Ind. Corn-husker	563,861	July 14	1086	256	76	218
Janney, George C., Muncie, Ind. Corn-husker and stalk-cutter	568,981	Oct. 6	458	{ 104 105 106	77	88
Janney, Reynold, Westborough, Mass. Spring	571,972	Nov. 24	2740	648	77	1211
Jannoch, Herman. (See Neumann, Josef, assignor.)						
Janowitz, Julius, New York, N. Y. Dress-stay	556,930	Mar. 24	2581	607	74	1661
Janse, Barend, and J. de Witte, Utrecht, Netherlands. Gas-heater for carriages, &c	569,286	Oct. 13	979	235	77	202
Jansen, Edmund, Höscheide-Solingen, Germany. Knife	569,103	Oct. 6	663	154	77	126
Jansky, Vincent, New York, N. Y. Ear-ring	561,893	June 9	1487	358	75	1676
Janssen, Henry, Reading, Pa. Braiding-machine	573,598	Dec. 22	2707	{ 642 643	77	1246
Janssen, Pierre, Brussels, assignor to A. Meyer, Aachen, Prussia, Germany. Preservative paint and making same	566,183	Aug. 18	2240	.....	76	1075
Jaques, William E. (See Emmett and Jaques.)						
Jarecki, Alexander, Erie, Pa. Ceiling and floor plate	571,766	Nov. 24	2376	567	77	1141
Jarecki Manufacturing Company. (See Williams, James C., assignor.)						
Jarman, George R. (See Tower, George A., assignor.)						
Jarman, George R., Durham, N. C., assignor of one-half to G. A. Lathrop, Jr., Richmond, Va. Steam-blower	560,095	May 12	1387	312	75	357
Jarman, George R., assignor to G. A. Lathrop, Jr., Richmond, Va. Furnace-feeding device	574,331	Dec. 29	4082	970	77	2112
Jarmin, James B., Muncie, Ind. Corn-planter	554,367	Feb. 11	1013	{ 234 235	74	708
Jarmin, Walter H., Osceola, Nebr. Check-row attachment for corn-planters	565,902	Aug. 18	1736	426	76	976
Jarrett, Henry T., New York, N. Y. Making potassium bitartrate	572,345	Dec. 1	451	.....	77	1364
Jarrett, John, et al. (See Davies, John R., assignor.)						
Jarvis, Franklin W., Chicago, Ill. Furnace-grate	569,205	Oct. 13	836	{ 196 197	77	175
Jarvis, Frederick E., Oakland, Cal. Sash-fastener	565,168	Aug. 4	408	98	76	693
Jarvis, Oscar F., assignor of one-half to E. C. Smith, St. Louis, Mo. Motor-governor for bicycles	557,823	Apr. 7	536	128	75	101
Jarvis, Philip, Cedar Rapids, Nebr. Corn-harvester	556,269	Mar. 10	1405	330	74	1410
Jauch, Joseph, assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Lamp-burner	554,491	Feb. 11	1232	2-8	74	749

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Jauch, Joseph, assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Air-distributor for central-draft lamps	561,321	June 2	455	112	75	1458
Jauss, Eugene, New York, N. Y. Sash-fastener	566,184	Aug. 18	2240	548	76	1075
Jeavons, William R. (See Lannert and Jeavons.)						
Jedlicka, Joseph, Sr., Sayville, N. Y. Chimney ventilator or cowl	555,448	Feb. 25	2941	699	74	1102
Jedlicka, Karl. (See Schmid and Jedlicka.)						
Jefferies, Ebenezer A. W., assignor to W. Wood, Philadelphia, Pa. Hydraulic shears	552,710	Jan. 7	366	95, 96	74	71
Jefferson, Charles W., Schenectady, N. Y. Electrical insulating-sheet	563,716	July 7	808	193	76	151
Jefferson, Charles W., Schenectady, assignor to Mica Insulator Company, New York, N. Y. Flexible mica insulating-sheet	563,379	July 7	248	56	76	50
Jefferson, Joseph, L., and M., Bradford, England. Roller-adjusting mechanism for washing-machines	559,710	May 5	600	143 144	75	797
Jefferson, Lazarus. (See Jefferson, Joseph, L., and M.)						
Jefferson, Mordecai. (See Jefferson, Joseph, L., and M.)						
Jefferson, Mordecai, Bradford, W. W. L. Lishman, Cornholme, and J. Clapham, Bradford, England. Shaft-bearing	557,510	Mar. 31	3623	868	74	1878
Jefferson, Mordecai, Bradford, W. W. L. Lishman, Cornholme, and J. Clapham, Bradford, England. Bearing for loose pulleys	558,392	Apr. 14	1552	379	75	310
Jefferson, Mordecai, Bradford, W. W. L. Lishman, Cornholme, and J. Clapham, Bradford, England. Bearing for shafts	574,246	Dec. 29	3947	938	77	2057
Jeffery, Thomas B., Chicago, Ill. Pneumatic tire	556,931	Mar. 24	2582	608	74	1661
Jeffery, Thomas B., Chicago, Ill. Wheel-tire	558,956	Apr. 28	2532	614	75	526
Jeffery, Thomas B., Chicago, Ill. Wheel-tire	558,957	Apr. 28	2535	614	75	527
Jeffery, Thomas B., Chicago, Ill. Velocipede-brake	561,113	June 2	61	16	75	1379
Jeffery, Thomas B., Chicago, Ill. Velocipede brake-lever	568,352	Sept. 29	2845	684	76	1868
Jeffrey, Charles L., Johnstown, Pa., assignor to Johnson Company, Lorain, Ohio. Brake-shoe	553,470	Jan. 21	1762	420	74	358
Jeffrey, E. W., <i>et al.</i> (See Watson, James M., assignor.)						
Jeffrey, Joseph A. (See Dierdorff, Henry B., assignor.)						
Jeffrey, Joseph A. (See Howard, Lyman D., assignor.)						
Jeffrey, Joseph A. (See Osyor, David N., assignor.)						
Jeffrey, Joseph A. (See Patterson and Heyl, assignors.)						
Jeffries, Gideon S., Reading, Pa. Game-table	572,056	Nov. 24	2889	682	77	1238
Jenik, Philip, New York, N. Y. Machine for refining pelts	557,129	Mar. 31	2926	700 701	74	1752
Jenings, George W., Rochester, N. Y. Refrigerator	553,855	Feb. 4	77	15, 16	74	519
Jenkins, Charles, Boston, Mass. Steam-valve	565,682	Aug. 11	1350	328	76	887
Jenkins, Charles F., Richmond, Ind. Kinetographic camera	560,800	May 26	2682	616	75	1261
Jenkins, Ebenezer C., Shrewsbury, Mass. Elevator-controller	555,099	Feb. 25	2317	550 551	74	985
Jenkins, Ebenezer C., Shrewsbury, Mass. Elevator attachment	569,336	Oct. 13	1072	254	77	221
Jenkins, Ebenezer C., Shrewsbury, Mass. Elevator attachment	572,996	Dec. 15	1596	382 383	77	1620
Jenkins, Ebenezer C., Shrewsbury, Mass. Elevator attachment	572,997	Dec. 15	1599	383 384	77	1621
Jenkins, Edward T., Sr., assignor to himself and B. Bieier, Brooklyn, N. Y. Bottle-stopper	567,394	Sept. 8	1183	282	76	1512
Jenkins, Edward W., Durbin, N. D. Commode	569,206	Oct. 13	839	197	77	176
Jenkins, George O., <i>et al.</i> (See Campbell, Andrew C., assignor.)						
Jenkins, Hiram H., <i>et al.</i> (See Campbell, Andrew C., assignor.)						
Jenkins, John S., Hartsell's, Ala. Screen for cotton-gins	574,201	Dec. 29	3855	919 937 938	77	2069
Jenkins, Leona H., Philadelphia, Pa. Rock-drill	571,231	Nov. 10	1445	338 339	77	935
Jenkinson, Samuel, London, England. Octave-coupler for reed organs or harmoniums	568,686	Sept. 29	3460	827	76	1983
Jenks, Edward W. (See Jenks, Thomas M., assignor.)						
Jenks Ship Building Company. (See Perley, Chauncy B., assignor.)						
Jenks, Thomas M., Galesburg, assignor of one-fourth to E. W. Jenks, Chicago, Ill. Automatic pump for pneumatic tires	571,001	Nov. 10	1042	244	77	861
Jenna, William K., Ilion, assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type-writing machine	571,002	Nov. 10	1046	245	77	862
Jennemann, Charles T., St. Louis, Mo. Hydrant	556,677	Mar. 17	2140	499	74	1562
Jennings, Abraham G., Brooklyn, N. Y. Wheel	556,848	Mar. 24	2438	573	74	1636
Jennings, Byron, San José, Cal. Railway-rail bond	573,980	Dec. 29	3422	820	77	1992
Jennings, Edwin B., Springfield, Mass. Drawbridge	554,390	Feb. 11	1049	214	74	714
Jennings, Estelle G., Chicago, Ill. Collapsible cooking utensil	561,167	June 2	165	42	75	1398
Jennings, Franklin A., Ithaca, N. Y., assignor to Electric Bullentin Company, Ithaca, N. Y., and Chicago, Ill. Annunciator	571,445	Nov. 17	1800	430	77	1016
Jennings, Franklin A., Ithaca, N. Y., assignor to Electric Bullentin Company, Ithaca, N. Y., and Chicago, Ill. Annunciator	572,057	Nov. 24	2889	682	77	1238
Jennings, Peter, Menasha, Wis. Valve-gear	555,955	Mar. 10	810	194	74	1301
Jennings, Philip B. (See Jennings and Kuhn, assignors.)						
Jennings, Robert G., New York, and E. Kuhn, Brooklyn, assignors to P. B. Jennings, New York, N. Y. Stop-watch	558,958	Apr. 28	2537	615	75	527
Jennings, Wellington M., Buffalo, assignor to Barber Asphalt Paving Company, New York, N. Y. Mixing-machine	558,876	Apr. 21	2386	581 582	75	482
Jennings, William C., Camden, N. J., assignor to Fairbanks Company, New York, N. Y. Plug-cock	556,889	Mar. 24	2512	592	74	1650
Jennings, William C., Camden, N. J., assignor to Pratt & Cady Company, Hartford, Conn. Renewable seat-valve	564,378	July 21	2002	470	76	399
Jennings, William E., Bath, England. Horseshoe-pad	569,032	Oct. 6	529	122	77	100
Jennings, Winslow D. (See Scheffer, David M., assignor.)						
Jens, William. (See Ford and Jens.)						
Jensen Can Filling Machine Company. (See Jensen, Mathias, assignor.)						
Jensen, Frank, Buffalo, N. Y. Bicycle	557,130	Mar. 31	2929	701	74	1753
Jensen, Julius, Evan, Minn. Sleigh	565,003	Aug. 4	73	17, 18	76	631
Jensen, Mathias, assignor of one-half to Jensen Can Filling Machine Company, Astoria, Oreg. Can-soldering machine	555,247	Feb. 25	2569	603	74	1033
Jensen, Nicholas, Washington, D. C. Mucilage-moistening device	554,933	Feb. 18	2000	474	74	911
Jensen, Ole T., Weatherford, Tex. Lifting device	567,681	Sept. 15	1652	398	76	1616
Jepson, George, Meriden, Conn. Push-button	574,247	Dec. 29	3948	938	77	2057
Jerger, Wilhelm, Niederschach, Germany. Clock-winding mechanism	562,539	June 23	2563	623	75	1912
Jerguson, Andrew P., and W. W. Hunt, Hull, Fla. Flexible pipe-joint	570,405	Oct. 27	3023	716	77	609
Jermeyer, Frank H., <i>et al.</i> (See Walker, Joseph, assignor.)						
Jernberg, John, Worcester, Mass. Temperature-regulator	561,401	June 2	601	150	75	148

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Jernberg, Laurence W. (See Lindfors, Erick M., assignor.)						
Jerome, Edgar, Norwalk, Conn. Toilet-paper	564,248	July 21	1778	416	76	361
Jerome, Edgar, Norwalk, Conn. Toilet-paper	570,806	Nov. 3	699	160	77	768
Jerome, Edgar, Norwalk, Conn. Toilet-paper	573,599	Dec. 22	2709	643	77	1846
Jerome, Edgar, Norwalk, Conn. Toilet-paper	573,600	Dec. 22	2710	644	77	1846
Jerome, William C., Mayfield, N. Y. Bottle	554,518	Feb. 11	1274	298	74	757
Jerome, William C., Mayfield, N. Y., assignor to O. G. Stolz, Chicago, Ill. Sticky fly-paper	552,762	Jan. 7	479	118	74	90
Jerram, Frederic O., Liverpool, England. Take-up for sewing-machines	566,767	Sept. 1	58	15	76	1291
Jessen, Jacob H., San Francisco, Cal. Stocking	570,707	Nov. 3	700	160	77	768
Jessop, Jonathan, assignor of one-half to L. S. Spangler, York, Pa. Potato-planter	553,618	Jan. 28	2028	420	74	423
Jessup, Robert W., Los Angeles, and F. H. Wheelan, San Francisco, Cal. Polishing-machine	570,639	Nov. 3	408	97	77	713
Jeter, Willie W. (See Payne and Jeter.)						
Jewell, C. V. (See Fowler, George A., assignor.)						
Jewell, Charles E. and M. R., Seneca Falls, N. Y. Extensible ruler	563,277	July 7	73	18	76	15
Jewell, Frank, assignor of one-half to G. F. Burns, Batavia, N. Y. Railway-switch	554,026	Feb. 4	411	90, 91	74	580
Jewell, Ira H., Chicago, Ill. Distilling apparatus	552,688	Jan. 7	330	88	74	65
Jewell, Major R. (See Jewell, Charles E. and M. R.)						
Jewell, Major R., and P. H. Yawman, assignors to Office Specialty Manufacturing Company Rochester, N. Y. Roller book-shelf	557,392	Mar. 31	3410	819	74	1839
Jewell, Omar H., assignor to O. H. Jewell Filter Company, Chicago, Ill. Strainer for filters	572,605	Dec. 8	911	220 221	77	1470
Jewell, Omar H., assignor to O. H. Jewell Filter Company, Chicago, Ill. Screen for filters	572,606	Dec. 8	912	221	77	1470
Jewell, William R. (See Foley, John F., assignor.)						
Jewett, Frank E., et al. (See White, Albert, assignor.)						
Jewett, George A., Chicago, Ill. Automatic grounding device for electric conductors	556,823	Mar. 24	2405	565	74	1628
Jewett, George A., Chicago, Ill. Automatic grounding device for electric conductors	573,232	Dec. 15	1999	480	77	1697
Jewett, John H., Menominee, Mich. Shipping-crate	572,998	Dec. 15	1602	384	77	1622
Jilbert, Harry J., assignor of one-half to R. W. Weldon, Rockford, Ill. Checking or unchecking device	553,471	Jan. 21	1763	421	74	358
Jobbins, William F. (See Van Ruymbeke, Joseph, assignor.)						
Jochum, Paul, Ottweiler, Germany. Kiln	565,753	Aug. 11	1476	361	76	910
Joeken, Peter J., assignor to American Washboard Company, Cleveland, Ohio. Washboard	556,541	Mar. 17	1938	452	74	1524
Joeken, Peter J., assignor to American Washboard Company, Cleveland, Ohio. Washboard	556,542	Mar. 17	1940	452	74	1524
Jofeh, John, London, England. Machine for printing from stencils	562,898	June 30	3230	780	75	2056
Jogada Furnace Company. (See Jones, Evan W., assignor.)						
Jogada Furnace Company. (See Roe, John M., assignor.)						
Johansen, Olaus, Racine, Wis. Flaxseed-cleaning mill	571,767	Nov. 24	2377	567 568	77	1142
Johanson, Emil G., assignor to P. O. Johnson, Rockford, Ill. Knitting-machine	559,850	May 12	910	202	75	268
Johanson, Johan. (See Beck, Peter, assignor.)						
Johanson, Johan A. (See Olson and Johanson.)						
John A. Roebbling's Sons Company. (See Cooney, Sebern A., assignor.)						
John B. Stetson Company. (See Winterros, Claes E., assignor.)						
John Brown & Company. (See Nodder, Joseph, assignor.)						
John C. Jewett Manufacturing Company. (See Mast, William J. D., assignor.)						
John, James M. (See Butcher and John.)						
Johns, John H. (See Wennen and Hart, assignors.)						
Johns, John P., assignor of three-fourths to W. L. Lubbock, Anstin, Tex. Square	567,832	Sept. 15	1917	439	76	1667
Johns, Thomas, et al. (See McCarty, Frank, assignor.)						
Johns, Zacharia D., Visalia, assignor of one-half to G. X. Wendling, Hanford, Cal. Heater	568,852	Oct. 6	241	56	77	47
Johnsen, Andrew W., P. T. and T. Herreid, Blair, Wis. Tank-heater	571,668	Nov. 17	2182	525	77	1086
Johnsen, Volkmar T. (See Petersen, Christian B., assignor.)						
Johnson, Alba B., et al. (See McConnell, Jacob Y., assignor.)						
Johnson, Albert E., et al. (See Meyers, Charles S., assignor.)						
Johnson, Albert W., New Haven, Conn., assignor to G. W. La Rue, New York, N. Y. Tension-operating mechanism for sewing-machines	561,790	June 9	1313	314	75	1643
Johnson, Alfred E., et al. (See Anderson, Andrew, assignor.)						
Johnson, Alfred F. (See Fry and Johnson, assignors.)						
Johnson, Allen N. (See Rice and Ettinger, assignors.)						
Johnson, Ammie C., Drake's Creek, Ark. Lever-opening swinging gate	553,619	Jan. 28	2030	420	74	424
Johnson, Amos E., assignor of one-half to L. P. Johnson, Northumberland, Pa. Means for feeding and controlling supply of water to boilers	572,171	Dec. 1	136	32	77	1303
Johnson, Andrew, Springfield, Mass. Curtain-fixture	559,489	May 5	240	54	75	729
Johnson, Andrew J., Ethel, Miss. Combined planter and fertilizer-distributor	564,520	July 21	2232	524	76	442
Johnson, Arthur M. (See Teal, Wilber G., assignor.)						
Johnson, August, et al. (See Winters, John W., assignor.)						
Johnson, Axel, Oakland, Cal. Attachment for can-making machines	554,027	Feb. 4	413	91	74	581
Johnson, Axel, Oakland, Cal. Can-end-soldering machine	566,079	Aug. 18	2062	502	76	1041
Johnson, Benjamin F., Mansfield, Ohio. Wheeled scraper	557,330	Mar. 31	3303	792	74	1817
Johnson, Benjamin W., Buna, Tex. Log-car attachment	554,342	Feb. 11	974	226	74	700
Johnson, Carrie L., Glendale, N. Y. Bird-cage	571,165	Nov. 10	1340	312 313	77	916
Johnson, Carroll H., Blue Springs, Mo. Hame-fastener	568,617	Sept. 29	3329	797	76	1958
Johnson, Charles, Bourne, Oreg. Indicator for hoisting-works	554,782	Feb. 18	1734	406 407	74	861
Johnson, Charles, Rutland, Vt. Center-blast pipe for furnaces	556,633	Mar. 17	2078	486	74	1530
Johnson, Charles A., Everett, Mass. Cleaning device for hot-water heaters	568,765	Oct. 6	95	22, 23	77	20
Johnson, Charles A., Chicago, Ill. Weighing-scoop	570,434	Oct. 27	3082	731	77	620
Johnson, Charles A., assignor to T. W. Myers, New York, N. Y. Barrel-washer	572,116	Dec. 1	36	9, 10	77	1284
Johnson, Charles G., Helmetta, N. J. Liniment	572,898	Dec. 8	1403		77	1566
Johnson, Charles H., Virginia, Minn. Drill-puller	557,824	Apr. 7	539	129	75	101
Johnson, Charles H., Youngstown, Ohio, assignor, by mesne assignments, to General Electric Company, of New York. Motor-truck gearing	566,400	Aug. 25	2627	641	76	1164
Johnson, Charles L. (See Brown and Brosnan, assignors.)						
Johnson, Charles M. (See Bennett, George W., assignor.)						
Johnson, Charles P., assignor of two-thirds to R. Bryden, Eureka, and J. D. Morley, El Dorado, Kans. Barrel-truck	564,284	July 21	1850	433	76	372
Johnson, Charles P., assignor of two-thirds to R. Bryden, Eureka, and J. D. Morley, El Dorado, Kans. Pie-plate lifter	564,285	July 21	1852	433	76	372
Johnson, Charles P., assignor of two-thirds to R. Bryden, Eureka, and J. D. Morley, El Dorado, Kans. Lamp-flue holder	564,286	July 21	1853	433	76	372

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Johnson, Charlotte M., Charleston, W. Va. Safety-pocket.....	562,361	June 16	2282	555	75	1843
Johnson & Co., Isaac G. (See McKee, Thomas L., assignor.)						
Johnson Company. (See Brown, William M., assignor.)						
Johnson Company. (See Entwisle, Edward B., assignor.)						
Johnson Company. (See Hartwell, Harry, assignor.)						
Johnson Company. (See Jeffrey, Charles L., assignor.)						
Johnson Company. (See Krauss, Charles H., assignor.)						
Johnson Company. (See Raymond, Ward, assignor.)						
Johnson Company. (See Stormer, Peter G., assignor.)						
Johnson, Curtis, <i>et al.</i> (See Laube, Godfried, assignor.)						
Johnson, Daniel, Ashland, assignor of one-half to Barnes Manufacturing Company, Mansfield, Ohio. Lift and force pump.....	565,620	Aug. 11	1230	297	76	864
Johnson, Dawson. (See West and Johnson.)						
Johnson, Dennis L., and D. F. Hoots, Cook's Mills, Ill. Car-coupling.....	555,168	Feb. 25	2433	576	74	1008
Johnson, Ead. (See Clement, Burton H., assignor.)						
Johnson, Edgar H., Seymour, Conn. Lead-press.....	572,516	Dec. 8	798	191	77	1445
Johnson, Edward A. (See Miller and Johnson.)						
Johnson, Edward H. (See Lundell, Robert, assignor.)						
Johnson, Edward H., New York, and R. Lundell, Brooklyn, assignors to Johnson-Lundell Electric Company, New York, N. Y. Electric railway.....	560,721	May 26	2545	585	75	1235
Johnson Electric Service Company. (See Fortier, Charles L., assignor.)						
Johnson Electric Service Company. (See Johnson, Warren S., assignor.)						
Johnson, Elias M., New York, N. Y. Explosive shell.....	555,774	Mar. 3	476	114	74	1216
Johnson, Elias M., New York, N. Y. Manufacturing steel.....	569,461	Oct. 13	1272		77	256
Johnson, Ellery A., Rome, Ga. Hook and eye.....	555,513	Mar. 3	50	11	74	1139
Johnson, Eric, Seattle, Wash. Milling-machine.....	565,992	Aug. 18	1933	467 468	76	1017
Johnson, Frank O. (See Smith, Chris N., assignor.)						
Johnson, Frederick I., assignor to Iver Johnson's Arms and Cycle Works, Fitchburg, Mass. Fastening for bicycle posts.....	570,309	Oct. 27	2854	677	77	578
Johnson, George C., Los Angeles, Cal. Gas-generator or vaporizer.....	554,699	Feb. 18	1589	374	74	834
Johnson, George E. (See Biunswick and Johnson.)						
Johnson, George P., Gloversville, N. Y. Scissors or shears.....	558,494	Apr. 21	1742	422	75	362
Johnson, George P., Gloversville, N. Y. Thill-coupling.....	560,722	May 26	2547	585	75	1235
Johnson, George P., Gloversville, N. Y. Automatic lightning-arrester.....	570,406	Oct. 27	3023	716	77	609
Johnson, George T., Chicago, Ill. Clip for toilet-paper packages.....	570,667	Nov. 3	467	109	77	725
Johnson, George W., Geneva, N. Y. Steam-boiler.....	559,583	May 5	393	95	75	759
Johnson, George W., Toronto, Canada. Calendar for pencils.....	561,666	June 9	1071	259	75	1597
Johnson, George W., Toronto, Canada. Calendar for pencils, &c.....	564,865	July 28	2571	688	76	576
Johnson, George W., Toronto, Canada. Non-refillable bottle.....	572,012	Nov. 24	2806	662	77	1223
Johnson, Gustaf F., West Superior, Wis. Wrench.....	556,151	Mar. 10	1189	278	74	1370
Johnson, Gustave W. (See Carlson, Gustave, assignor.)						
Johnson, H. K. (See Holman, Thomas H., assignor.)						
Johnson, Hans G., Waukon, assignor of two-thirds to H. J. Bentley and D. Deremore, Allamakee county, Iowa. Attachment for brooms.....	566,519	Aug. 25	2861	695	76	1208
Johnson, Hastings H., C. O. White, and M. B. Lloyd, Minneapolis, Minn.; said Johnson and Lloyd assignors to said Johnson and White. Listing and computing machine.....	569,499	Oct. 13	1377	313 316 317	77	268
Johnson, Henry, <i>et al.</i> (See Bertram, Henry W., assignor.)						
Johnson, Henry, New York, N. Y. Job-printing press.....	573,413	Dec. 15	2339	559	77	1758
Johnson, Henry C., Chicago, Ill. Hydraulic-elevator apparatus.....	564,620	July 28	2429	572	76	496
Johnson, Henry H. (See Ries and Johnson.)						
Johnson, Henry W., Michigan City, Ind. Chair-seat.....	552,840	Jan. 7	640	157	74	121
Johnson, Henry W., Bloomfield, N. J., assignor to Goodyear Shoe Machinery Company, Portland, Me. Sewing-machine.....	564,379	July 21	2904	471	76	399
Johnson, Isaac G., New York, N. Y. Armor-piercing projectile.....	571,195	Nov. 10	1385	323	77	924
Johnson, Isak, Milwaukee, Wis. Mechanical motor.....	568,853	Oct. 6	242	56	77	47
Johnson, Iver. (See Fyrberg, Andrew, assignor.)						
Johnson, Iver, and A. Fyrberg, Worcester, Mass.; said Fyrberg assignor to said Johnson. Latch for retaining cylinders on spindles.....	566,399	Aug. 25	2626	641	76	1164
Johnson, J. C. (See Levin, Rudolph L., assignor.)						
Johnson, Jabez, and W. Pence, Alderson, W. Va. Churn.....	555,007	Feb. 18	2136	509	74	935
Johnson, James W., New Brunswick, N. J. Horseshoe-calk extractor.....	559,803	May 12	785	189	75	845
Johnson, James W., Chicago, Ill. Pencil-sharpening machine.....	564,202	July 21	1710	400	76	347
Johnson, Johannes H., North Cape, Wis. Gate.....	557,584	Apr. 7	102	26	75	21
Johnson, John A. (See Mandt, Targe G., assignor.)						
Johnson, John A., Jr. (See Newman and Johnson.)						
Johnson, John A., Hoquiam, Wash. Baby-carriage.....	570,407	Oct. 27	3024	717	77	609
Johnson, John B., Gouverneur, N. Y. Split slip-collar.....	555,512	Mar. 3	49	11	74	1139
Johnson, John H., Chicago, Ill. Pump.....	559,851	May 12	911	202	75	868
Johnson, John H., Silverton, Oreg. Gate.....	567,101	Sept. 1	655	152	76	1406
Johnson, John H., and J. Moran, Orange, Tex. Furnace.....	556,098	Mar. 10	1089	259	74	1351
Johnson, John O., Festus, Mo. Fodder-bundler.....	561,994	June 16	1654	404	75	1727
Johnson, John W., Wagar, Ala. Rail-joint.....	558,495	Apr. 21	1743	422	75	362
Johnson, John W., Sheffield, Ala. Sifter.....	573,272	Dec. 15	2081	499	77	1711
Johnson, Josiah, assignor of one-half to J. A. A. Barfoot, Leicester, England. Knitting-machine.....	563,233	June 30	3833	918	75	2174
Johnson, Josiah, assignor of one-half to J. A. A. Barfoot, Leicester, England. Knitting-machine.....	564,886	July 28	2772	688	76	576
Johnson, Julius R., Elmira, N. Y. Tag-fastener.....	564,487	July 21	2183	512	76	433
Johnson, Lafayette W. (See Wolff, Johnson, and Wallace.)						
Johnson, Larence A., San Francisco, Cal. Multiple projectile.....	556,632	Mar. 17	2077	426	74	1550
Johnson, Laura. (See Burnes, Oliver A., assignor.)						
Johnson, Lewis, assignor to R. J. Rasbury, Ruston, La. Drag-saw.....	571,446	Nov. 17	1802	430 431	77	1017
Johnson, Lewis, and L. Fridlund, Willmar, Minn. Heat-regulator for cooking-stoves.....	554,343	Feb. 11	977	236	74	700
Johnson, Lewis, and L. Fridlund, Willmar, Minn. Fabric or goods holder.....	554,934	Feb. 18	2001	474	74	911
Johnson, Louis F., W. J. Slacke, and H. Lacy, Easton, Pa. Marine torpedo.....	559,711	May 5	601	144	75	797
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus.....	561,993	June 16	1653	403 404	75	1727
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-transferring apparatus.....	562,078	June 16	1814	438	75	1755
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-containing channel.....	562,079	June 16	1815	439	75	1756

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Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-containing channel	562,080	June 16	1817	439 440	75	1756
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	562,081	June 16	1818	440 441	75	1756
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting case	562,082	June 16	1821	441	75	1756
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	562,083	June 16	1822	442	75	1757
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting appliance	569,337	Oct. 13	1075	255 256	77	222
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting appliance	570,098	Oct. 27	2420	576 577	77	499
Johnson, Louisiana P. (See Johnson, Amos E., assignor.)						
Johnson-Lundell Electric Company. (See Johnson and Lundell, assignors.)						
Johnson-Lundell Electric Company. (See Lundell, Robert, assignor.)						
Johnson, Mads L. (See Sather, Theodore, assignor.)						
Johnson, Martin. (See Albutus and Johnson.)						
Johnson, Mary E. (See Caldwell, Homer M., assignor.)						
Johnson, Minnie S., Lebanon, Ill. Artificial butterfly	563,489	July 7	433	100	76	83
Johnson, Nis, assignor to Meriden Bronze Company, Meriden, Conn. Wick-adjuster for central-draft lamps	564,018	July 14	1371	319	76	270
Johnson, Nis, assignor to Meriden Bronze Company, Meriden, Conn. Wick-adjuster for central-draft lamps	573,223	Dec. 15	2002	481	77	1697
Johnson, Nis, and A. H. Jones, assignors to Meriden Bronze Company, Meriden, Conn. Central-draft lamp	564,017	July 14	1368	319	76	270
Johnson, Noah, and H. L. Hunt, Padua, Ill. Belt-guide	571,923	Nov. 24	2664	631	77	1195
Johnson, Ole, La Crosse, Wis. Knife-sharpener	559,333	Apr. 28	3251	785	75	661
Johnson, Ole, Milwaukee, Wis. Apparatus for elevating, transporting, and discharging coal	559,852	May 12	912	203 204	75	868
Johnson, Oscar, and O. Hoyer, Chicago, Ill. Screw-thread cutter	556,190	Mar. 10	1263	295	74	1382
Johnson, Otter, Santa Fe, N. Mex. Ter. Boot or shoe maker's jack	555,866	Mar. 3	639	153	74	1248
Johnson, Peter O. (See Johanson, Emil G., assignor.)						
Johnson, Phelps, Montreal, Canada. Column	573,151	Dec. 15	1874	451	77	1674
Johnson, Reno D. O., Isabella, Mo. Rock-drill	560,801	May 26	2684	616 617	75	1261
Johnson, Roy D., Chicago, Ill. Fusible plug for automatic fire-extinguishers	556,631	Mar. 17	2076	486	74	1550
Johnson, Seward T., Noblesville, Ind. Clutch-coupling	564,488	July 21	2185	512	76	433
Johnson, Silas, Willow Lake, S. D. Windmill	563,596	July 7	610	142 143	76	114
Johnson, Sinclair J., New York, N. Y. Dumping-car	571,480	Nov. 17	1859	442 443	77	1027
Johnson, Sinclair J., New York, N. Y. Dumping-car	571,481	Nov. 17	1861	444	77	1027
Johnson, Sinclair J., New York, N. Y. Dumping-car	571,482	Nov. 17	1863	445	77	1027
Johnson, Sinclair J., New York, N. Y. Dumping-car	571,483	Nov. 17	1865	445	77	1028
Johnson, Sinclair J., New York, N. Y. Dumping-car	571,484	Nov. 17	1866	446	77	1028
Johnson, Stephen O., Detroit, Mich., assignor to L. S. Bacon, Washington, D. C. Bicycle handle-bar	560,998	May 26	3025	697	75	1326
Johnson, Syvert, et al. (See Laube, Godfried, assignor.)						
Johnson, Thomas, assignor of one-half to W. Brandon, St. Louis, Mo. Vapor-stove	555,450	Feb. 25	2944	700	74	1103
Johnson, Thomas B. (See Bayles and Johnson.)						
Johnson, Thomas C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Temporary cartridge-holder	571,973	Nov. 24	2743	648	77	1211
Johnson, Thomas C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Temporary cartridge-holding clip	572,361	Dec. 1	487	114	77	1371
Johnson, Warren C., Oskaloosa, Iowa. Coal-drilling machine	574,363	Dec. 29	4144	984	77	2124
Johnson, Warren S., Milwaukee, Wis. Thermostat	557,272	Mar. 31	3201	768	74	1797
Johnson, Warren S., Milwaukee, Wis. Pressure-regulator	558,730	Apr. 21	2135	514 515	75	435
Johnson, Warren S., Milwaukee, Wis. Pneumatic clock system	559,853	May 12	917	204 205	75	869
Johnson, Warren S., Milwaukee, Wis. Pneumatic clock	567,983	Sept. 22	2173	523	76	1728
Johnson, Warren S., Milwaukee, Wis. Temperature regulating or controlling device	568,950	Oct. 6	399	90	77	76
Johnson, Warren S., assignor to Johnson Electric Service Company, Milwaukee, Wis. Wall-plate and pipe connection	567,029	Sept. 1	518	122	76	1380
Johnson, William, Penn Yan, N. Y. Car-coupling	572,999	Dec. 15	1603	384	77	1622
Johnson, William A., et al. (See Browning, George, assignor.)						
Johnson, William A., Winigan, Mo. Windmill	557,661	Apr. 7	224	62	75	54
Johnson, William F., Addison, N. Y. Cultivator	564,428	July 21	2094	490	76	416
Johnson, William H. (See Fry and Johnson.)						
Johnson, William H., Veedersburg, and S. D. Fry, Attica, Ind. Railway-crossing	555,449	Feb. 25	2942	699 700	74	1102
Johnson, William H., and A. H. Adcock, assignors to W. H. Johnson and W. J. Taylor, Birmingham, England. Caster	559,334	Apr. 28	3252	785	75	662
Johnson, William L., Chicago, Ill. Garbage-crematory	556,420	Mar. 17	1714	399	74	1482
Johnson, William T., Washington, D. C. Apparatus for duplicate whist	555,903	Mar. 3	709	171	74	1262
Johnson, William T., Brooklyn, N. Y. Game apparatus	566,715	Aug. 25	3156	772 773	76	1262
Johnson, Willie H., Navasota, Tex. Mechanism for overcoming dead-centers	554,223	Feb. 4	755	172	74	644
Johnston, Abner, assignor of seventeen-twentieths to H. Horlbeck, E. Kelly, G. B. Fielder, and A. R. Braunstein, Jersey City, N. J. Mail-bag	574,064	Dec. 29	3567	852	77	2019
Johnston, Allen, Ottumwa, Iowa. Grinding and polishing machine	557,825	Apr. 7	539	129 130	75	102
Johnston, Edgar D. (See Wainwright and Johnston.)						
Johnston, Frank D. (See Martin, Thomas N., assignor.)						
Johnston, Friend W., et al. (See Fenwick, Albert D., assignor.)						
Johnston, George, assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Ore-crushing machinery	559,779	May 5	742	178	75	822
Johnston Harvester Company. (See Case, Henry J., assignor.)						
Johnston, Henry M., Brooklyn, N. Y. Paint or coating composition	574,092	Dec. 29	3618		77	2029
Johnston, Henry M., Brooklyn, N. Y. Decorating interior walls of houses or other surfaces	574,332	Dec. 29	4083	970	77	2113
Johnston, Hugh, Toronto, Canada. Plow	569,768	Sept. 1	59	15	76	1291
Johnston, Hugh C., Freedom, Pa. Roller and blind attachment	574,152	Dec. 29	3723	887	77	2047
Johnston, James A., et al. (See Murray, William, assignor.)						
Johnston, John, assignor of one-half to A. Meyer, St. Louis, Mo. Combined sink and trap	555,485	Feb. 25	3006	716	74	1114

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Johnston, John, and J. M. Cooper, Bellevue, Pa. Sliding-door fastener.....	553,856	Feb. 4	80	16	74	520
Johnston, John D. (See Wilks, Frank H., assignor.)						
Johnston, John D., Newport, R. I. Knife cleaner and sharpener	555,819	Mar. 3	554	132	74	1231
Johnston, John M., Los Angeles, Cal. Bouquet-holder	568,114	Sept. 22	2436	585	76	1775
Johnston, John S., Chicago, Ill., assignor to Pottier & Stymus Company, New York, N. Y. Seat	564,380	July 21	2006	471	76	400
Johnston, Joseph K. and W. B., Anderson, Ind. Apparatus for forcing water, &c., from natural-gas or other wells	554,188	Feb. 4	705	159	74	634
Johnston, Lawrence M., assignor to New Era Iron Works Company, Dayton, Ohio. Friction-clutch	572,205	Dec. 1	187	46	77	1314
Johnston, Marcellus D. (See Rightmyer, Frank, assignor.)						
Johnston, Thomas, Newburg, N. Y. Lawn-mower	566,911	Sept. 1	300	70	76	1340
Johnston, Thomas F., <i>et al.</i> (See Kennedy, James M., assignor.)						
Johnston, Walter R., New York, assignor of one-half to C. R. Arents, Brooklyn, N. Y. Fire-extinguisher	558,959	Apr. 28	2539	615	75	528
Johnston, Wilbur H., assignor to Bell Telephone Company of Missouri, St. Louis, Mo. Cable terminal-box	571,594	Nov. 17	2060	493	77	1062
Johnston, William A., Wytheville, Va. Lock	558,649	Apr. 21	1992	483	75	409
Johnston, William A., Homer, La. Spectacle-case and holder for pencils, pens, &c.	571,373	Nov. 17	1626	399	77	995
Johnston, William B. (See Johnston, Joseph K. and W. B.)						
Johnston, William F., West Point, N. Y. Sash-holder	564,694	July 28	2536	601	76	516
Johnston, William H., Bloomington, Ind. Vehicle-bolster	566,401	Aug. 25	2623	642	76	1165
Johnston, William J., Port Huron, Mich. Grain-car door	569,923	Oct. 20	2112	502	77	425
Johnston, William W. (See Hobbs and Johnston.)						
Johnstone, George, New York, N. Y. Support for window-sashes	570,022	Oct. 27	2285	543	77	470
Jokl, Edmund, and W. M. Christian, Vienna, Austria-Hungary, assignors of one-third to G. Kemp, New York, N. Y. Safety-switch	570,808	Nov. 3	701	160	77	768
Jolicard, Emile, Lyons, France. Pulverizing apparatus	553,163	Jan. 14	1929	299	74	245
Jolly, John. (See Stevens, Benjamin F., assignor.)						
Joly, Marie J. H., Paris, France. Chronophotographic apparatus	569,875	Oct. 20	2628	483 484	77	409
Joly-Sambra Company. (See Sampolo and Brasseur, assignors.)						
Jonas, Charles, Newtown, Conn., assignor to F. A. Decker, Philadelphia, Pa. Hook-fastening for garments	555,008	Feb. 18	2138	509	74	936
Jonasson, Joseph, New York, N. Y. Machine for folding shirt-waists	565,275	Aug. 4	614	145	76	728
Joncas, Louis, assignor of one-half to F. H. Genereux, Salem, Mass. Carpenter's gage	569,558	Oct. 13	1452	343	77	290
Jondet, Henri, Paris, France. Fare indicator, register, and recorder	556,190	Mar. 24	2514	593 594	74	1650
Jones, Albert C., Paterson, N. J. Curtain-fixture	558,077	Apr. 14	1028	251	75	210
Jones, Albert F., Salem, Mass., assignor to Vaughn Machine Company, Portland, Me. Bark-mill	561,054	May 26	3119	719	75	1345
Jones, Albert F., Salem, Mass., assignor to Vaughn Machine Company, Portland, Me. Putting-out roll	569,136	Oct. 6	718	169	77	137
Jones, Albert H. (See English, Vann, and Jones.)						
Jones, Alfred E., Walton, England. Scaffold-bracket	569,645	Oct. 20	1628	384	77	339
Jones, Alfred H., St. Louis, Mo. Toy puzzle	563,962	July 14	1229	302	76	254
Jones, Andrew, Cincinnati, Ohio. Window-casing	567,240	Sept. 8	820	211	76	1459
Jones, Anna L., Philadelphia, Pa. Dressmaker's stand	570,931	Nov. 10	933	217	77	841
Jones, Augustus H. (See Johnson and Jones.)						
Jones, Augustus H., assignor to Meriden Bronze Company, Meriden, Conn. Wick-adjusting device for central-draft lamps	554,935	Feb. 18	2003	474	74	912
Jones, Augustus H., assignor to Meriden Bronze Company, Meriden, Conn. Lamp-burner	554,936	Feb. 18	2004	474	74	912
Jones Brothers & Co. (See Scott, Dugald, assignor.)						
Jones, Charles E., Hillsborough, Tex. Hay-press	573,785	Dec. 22	3039	720	77	1908
Jones, Charles F., Troy, Ohio. Meat-cutter and meat-cutting mechanism	570,222	Oct. 27	2644	626 627	77	540
Jones, Charles S., and K. McCreery, Toledo, Ohio. Thermal-bath cabinet	569,417	Oct. 13	1209	284	77	245
Jones, Clarence R., Alton Bay, N. H. Thill-coupling	573,152	Dec. 15	1875	451	77	1674
Jones, Daniel, assignor to Two-Reel Lock-Stitch Sewing Machine Company, Limited, Birmingham, England. Sewing-machine	565,543	Aug. 11	1093	263 264	76	839
Jones, Daniel N. (See Dunaway and Jones.)						
Jones, Daniel W., assignor of one-half to H. Bamberger, Salt Lake City, Utah. Leveler and grader	566,716	Aug. 25	3158	773	76	1263
Jones, David S., Williamsburg, Ky. Mucilage-bottle	563,597	July 7	612	143	76	115
Jones, Edwards P., assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Ore-crushing machine	563,181	June 30	3738	895	75	2157
Jones, Evan W., Portland, Oreg., assignor to Jogada Furnace Company, Chicago, Ill. Boiler or other furnace	569,207	Oct. 13	841	198 199	77	176
Jones, Francis A., <i>et al.</i> (See Harpold, Adam, assignor.)						
Jones, Francis W., New York, N. Y. Electrical switching apparatus	573,601	Dec. 22	2711	644	77	1846
Jones, Frank. (See Thomas, Baker, and Jones.)						
Jones, Frederick G. (See Dundee and Jones.)						
Jones, George H., London, England. Torpedo-guard	559,490	May 5	241	54.55	75	729
Jones, Griffith W., Reading, Pa. Rolling-mill	560,585	May 19	2253	516	75	1165
Jones, Harry, Richmond, Ind. Pump	572,260	Dec. 1	292	70	77	1335
Jones, Harry H., Lancaster, N. H. Belt-fastener	553,243	Jan. 21	1369	333	74	286
Jones, Henry A., New York, N. Y. Deoxidizing-furnace	566,186	Aug. 18	2244	548 549	76	1075
Jones, Henry C., assignor to Hilles & Jones Company, Wilmington, Del. Steam-boiler	563,665	July 7	717	169	76	135
Jones, Henry C., assignor to Hilles & Jones Company, Wilmington, Del. Multiple punching-machine	566,185	Aug. 18	2242	548	76	1075
Jones, Henry C., assignor to Hilles & Jones Company, Wilmington, Del. Bevel-shearing machine	568,256	Sept. 22	2677	641	76	1821
Jones, Henry C., assignor to Hilles & Jones Company, Wilmington, Del. Motive-fluid supply and discharge device for rotary power-driven machines	569,924	Oct. 20	2113	502 503	77	425
Jones, Horace D., Portsmouth, Ohio. Adjustable end-supporting bracket	552,530	Jan. 7	46	15	74	11
Jones, Horace K., Hartford, Conn. Preparing metal for stamping or drawing-in dies	552,763	Jan. 7	480	118	74	90
Jones, Howard S. (See Gilroy, Thomas F., assignor.)						
Jones, Howard W., Cincinnati, Ohio. Roller-skate	567,346	Sept. 8	1095	264	76	1497
Jones, Hugh W., Plymouth, Pa. Pump attachment	567,272	Sept. 8	950	226	76	1470
Jones, Isaiah T. (See Taylor, William O., assignor.)						
Jones, James B. (See Quigley, John H., assignor.)						
Jones, James E., Atlanta, N. Y. Wire fence	558,960	Apr. 28	2540	615	75	528

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Jones, James W., Lockesburg, Ark. Animal-trap	566,912	Sept. 1	301	70	76	1340
Jones, John, Merthyr-Tydvil, England. Locomotive blast-pipe	560,504	May 19	2117	484	75	1140
Jones, John J. (See Youngquist and Jones.)						
Jones, John M. (See Biorn, Christian A., assignor.)						
Jones, John R., Philadelphia, Pa. Rolling-mill	573,000	Dec. 15	1606	{ 385 386 }	77	1623
Jones, John T. (See Bohannon, Jennetta V., assignor.)						
Jones, John T. (See Flynt, Chester D., assignor.)						
Jones, John W., Onondaga, Mich. Whiffletree-iron	561,055	May 26	3122	719	75	1345
Jones, Joseph H. (See Pullman, Samuel H., assignor.)						
Jones, Joseph R., Philadelphia, assignor of two-thirds to J. W. Jones, Harrisburg, and T. A. Jones, Philadelphia, Pa. Wire-compensator for railway signals and switches	566,321	Aug. 25	2469	605	76	1134
Jones, Joseph R., Philadelphia, and J. W. Jones, Harrisburg, assignors of one-third to T. A. Jones, Philadelphia, Pa. Compensating device for railway-signals	572,117	Dec. 1	41	10	77	1286
Jones, Joseph R., Philadelphia, and J. W. Jones, Harrisburg, assignors of one-third to T. A. Jones, Philadelphia, Pa. Distant-switch signal-wire compensator	573,822	Dec. 29	3230	769	77	1958
Jones, Joshua W. (See Jones, Joseph R. and J. W.)						
Jones, Joshua W., et al. (See Jones, Joseph R., assignor.)						
Jones, Joshua W., Harrisburg, Pa. Change-carrier	565,903	Aug. 18	1738	426	76	977
Jones, Josiah, Hallsville, Mo. Hoop	554,446	Feb. 11	1161	270	74	736
Jones, Judson R., Rockton, Ill., assignor to J. Thompson & Sons Manufacturing Company, Beloit, Wis. Wheel-plow	566,584	Aug. 25	2951	720	76	1226
Jones & Laughlins. (See Geyer, George H., assignor.)						
Jones, Llewellyn W., Allegheny, Pa. Tooth-brush	561,995	June 16	1655	404	75	1728
Jones, Mariana T., Boston, Mass. Paper doll and dress for same	564,078	July 14	1488	348	76	292
Jones, Mary E. (See Jones, Thomas D., assignor.)						
Jones, Nathaniel M. (See Talbot and Jones.)						
Jones, Nathaniel M., and R. Talbot, Lincoln, said Talbot assignor to C. W. Coffin, Bangor, Me. Preparing wood chips for making pulp	573,981	Dec. 29	3423	820	77	1992
Jones, Oliver F., assignor of one-half to W. P. Bruce, Cincinnati, Ohio. Steam-boiler furnace	566,862	Sept. 1	215	50	76	1323
Jones, Oscar J., Winfield, Kans. Hat-pin	555,100	Feb. 25	2320	551	74	966
Jones, Otis, assignor of one-fourth to L. J. and J. H. McLane, Senoia, Ga. Steam-boiler	558,918	Apr. 21	2466	600	75	496
Jones, Owen, London, England. Speed-governor for marine engines	564,079	July 14	1489	{ 348 349 }	76	292
Jones, Owen H., Hartford, Conn. Ball-cock	564,249	July 21	1779	417	76	361
Jones, Patrick F., Biltmore, N. C. Roofing-tile	565,356	Aug. 4	740	177	76	754
Jones, Paul, Cincinnati, Ohio. Car-fender	557,206	Mar. 31	3082	739	74	1777
Jones, Reese C. A., Hillsborough, Ill. Fire-kindler	556,352	Mar. 17	1584	371	74	1458
Jones, Richard W., Syracuse, N. Y. Protector for hame-staples	560,037	May 12	1267	285	75	935
Jones, Richard W., Rock Hall, assignor of one-half to S. Beck, Chestertown, Md. Combined corn-planter and fertilizer-distributor	555,044	Feb. 18	2216	{ 528 529 }	74	949
Jones, Riley L., Saginaw, Mich. Ballot-box	558,962	Apr. 28	2543	616	75	529
Jones, Samuel M., et al. (See Miller, John D., assignor.)						
Jones, Samuel O., assignor of one-half to G. H. Atwood, Stillwater, Minn. Bicycle-pedal	559,385	May 5	60	13	75	692
Jones, Samuel O., assignor of one-half to G. H. Atwood, Stillwater, Minn. Measuring device	559,386	May 5	61	14	75	692
Jones, Samuel S., et al. (See Murphy, Thomas P., assignor.)						
Jones-Swift Manufacturing Company. (See Swift, Horace E., assignor.)						
Jones, Sylvester H., Richmond, Ind., assignor to Hoosier Drill Company, of Indiana. Corn-planter	561,791	June 9	1314	314	75	1643
Jones, Thomas, Chicago, Ill. Globe and making same	553,409	Jan. 21	1663	397	74	339
Jones, Thomas, Chicago, Ill. Building construction	563,278	July 7	74	{ 18 19 20 }	76	16
Jones, Thomas A. (See Jones, Joseph R. and J. W., assignors.)						
Jones, Thomas A., et al. (See Jones, Joseph R., assignor.)						
Jones, Thomas D., assignor to M. E. Jones, Chicago, Ill. Harrow-tooth	562,767	June 23	2970	719	75	1990
Jones, Thomas E., Ottumwa, Iowa. Dish-cleaner	558,961	Apr. 28	2542	616	75	523
Jones, W. R. (See Shanklin, Philip A., assignor.)						
Jones, Wesley N., Spring Valley, Ark. Hay rake and loader	554,519	Feb. 11	1276	299	74	757
Jones, William A., et al. (See Lang, Robert A., assignor.)						
Jones, William D., Homestead, Pa. Rail-joint	554,602	Feb. 11	1417	332	74	785
Jones, William F., Baltimore, Md. Display-card and holder	570,408	Oct. 27	3027	717	77	610
Jones, William M., Cerro Gordo, Tenn. Spring-bedstead	564,621	July 28	2432	572	76	496
Jones, William T., Woolstock, Iowa. Window-screen	553,244	Jan. 21	1371	334	74	286
Jones, Willis, et al. (See Norman, Addison, assignor.)						
Jones, Willis S. (See Wolhaupter and Jones.)						
Jones, Zachary T., New York, N. Y. Bedstead	571,768	Nov. 24	2378	568	77	1142
Jonson Engineering and Foundry Company et al. (See Jonson, Julius, assignor.)						
Jonson, Julius, assignor to Jonson Engineering and Foundry Company and J. H. Robertson, New York, N. Y. Grip and brake operating mechanism	570,023	Oct. 27	2289	543	77	471
Jönsson, Johan L., Stockholm, Sweden. Apparatus for heating and stirring milk, &c	555,451	Feb. 25	2945	700	74	1103
Jönsson, Johan L., assignor to Aktiebolaget Separator, Stockholm, Sweden. Automatic speed-regulator for steam-turbines	554,425	Feb. 11	1118	262	74	728
Jönsson, Johan L., assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal machine	567,273	Sept. 8	952	{ 226 227 }	76	1471
Jordan, Albert, Vienna, Austria-Hungary. Electric-arc lamp	559,387	May 5	62	14	75	692
Jordan, Charles F. (See Housman, James H., assignor.)						
Jordan, Charles L., and H. B. Phillips, Pelahatchee, Miss. Ice-cream freezer	552,908	Jan. 14	792	192	74	161
Jordan, Edmund P., St. Louis, Mo. Carriage-axle	554,520	Feb. 11	1277	299	74	757
Jordan, Edward B. (See Schmiedel, Anton J., assignor.)						
Jordan, Frank C., Wadsworth, Ohio. Electric call-bell	560,096	May 12	1388	312	75	958
Jordan, Franz. (See Wagner, Julius, assignor.)						
Jordan, Henry G. (See Symons, Frank H., assignor.)						
Jordan, James W., Bunkie, La. Car-door case and cleat	557,273	Mar. 31	3203	768	74	1798
Jordan, Linwood F., Portland, Me. Cash register and indicator	568,257	Sept. 22	2673	642	76	1821
Jordan, Llewellyn E. (See Wills and Jordan.)						
Jordan, Thomas F. (See Walsh, Mooney, and Jordan.)						
Jordan, Thomas R., New York, N. Y. Non-refillable bottle	566,322	Aug. 25	2472	{ 605 606 }	76	1135
Jordan, Thomas R., assignor of one-fourth to J. C. Shannon, New York, N. Y. Safety-engine-velop	561,894	June 9	1488	{ 358 359 }	75	1676
Jordan, William A., assignor of one-half to J. A. Beltz, Mulvane, Kan. Steam-engine	566,666	Aug. 25	3103	758	76	1254

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Jordan, William H., Brooklyn, N. Y. Electric railway.....	555,248	Feb. 25	2573	604	74	1034
Jordan, William H., Brooklyn, N. Y. Electric railway.....	560,903	May 26	2880	661	75	1299
Jordis, Eduard, Munich, Germany. Electrodeposition.....	570,554	Nov. 3	217	-----	77	678
Jorgensen, Sophus, Copenhagen, Denmark. Slag cement.....	569,833	Oct. 20	1964	-----	77	398
Joselin, Charles, <i>et al.</i> (See Becker, Adolph, assignor.)						
Joseph, Edgar S. (See Gustave, George, assignor.)						
Joseph, Edward, Pomeroy, Ohio. Tipple.....	560,999	May 26	3026	697	75	1327
Joseph Schneible Company. (See Schneible, Joseph, assignor.)						
Josephs, Adolf, and H. Luers, Scranton, Pa. Wheel-retainer for vehicles.....	559,896	May 12	1015	225	75	887
Joski, Henry, and E. P. G. Hall, Boston, Mass. Advertising device.....	557,393	Mar. 31	3411	819	74	1839
Josler, Angelo, assignor of one-half to E. S. Moss, Chicago, Ill. Lock.....	561,941	June 9	1566	380	75	1691
Joslin, Alexander D., Chicago, Ill. Cash-check holder and cutter.....	553,620	Jan. 28	2031	481	74	424
Joslin, Herbert A. (See Paul and Joslin.)						
Joslyn, Willis B., West Bay City, Mich. Composition for destroying thistles.....	560,218	May 19	1612	-----	75	1051
Joughins, George R. (See Cliff, Edward, assignor.)						
Jouve, Casimir R., Dax, France. Calculating-ruler.....	571,567	Nov. 17	2017	480	77	1055
Joy, Claude L., <i>et al.</i> (See Andrews, Samuel S., assignor.)						
Joy, John M. (See Merritt and Joy.)						
Joy, John M., New York, N. Y. Telegraphy.....	566,985	Sept. 1	447	104	76	1366
Joy, Robert, Oswego, N. Y. Feed-water purifier.....	568,536	Sept. 29	3176	764	76	1928
Joy, Robert, assignor to T. Kingsford, Oswego, N. Y. Steam-boiler.....	573,001	Dec. 15	1609	386 387	77	1623
Joyce, Frederick T., Dublin, Ireland. Music-leaf turner.....	558,496	Apr. 21	1743	423	75	362
Joyce, Henry. (See Gunn, Leonard, assignor.)						
Joyce, John J. (See Fish and Joyce.)						
Judd, Adelbert F. (See Sherer, George W., assignor.)						
Judd, Edward C., Boston, Mass. Sole-leveling machine.....	554,067	Feb. 4	473	106 107 169	74	592
Judd, Edward C., and H. E. Cilley, Boston, Mass. Sole-leveling machine.....	563,666	July 7	718	170 171 172	76	135
Judd, Edwin, assignor to Hall & Brown Wood Working Machine Company, St. Louis, Mo. Woodworking-machine.....	555,378	Feb. 25	2804	659	74	1077
Judd, Norris A., San Francisco, Cal. Book-leaf holder.....	563,381	July 7	249	56	76	50
Judd, Samuel R., Little Rock, Ark. Steamboat-jack.....	559,712	May 5	602	144	75	797
Judd, William A., <i>et al.</i> (See Travers, Lawrence S., assignor.)						
Judevine, Henry W., Edgar Springs, Mo. Stirrup.....	556,634	Mar. 17	2079	466	74	1550
Judge, James L., Milwaukee, Wis. Steam-valve for radiators.....	556,421	Mar. 17	1717	400	74	1433
Judson, Clarence H., Council Bluffs, Iowa. Card-shooter.....	562,187	June 16	1994	422	75	1790
Judson L. Thomson Manufacturing Company. (See Stiles, George A., assignor.)						
Judson, Whitcomb L., Chicago, Ill., assignor to Universal Fastener Company, of Illinois. Fastening for shoes.....	557,207	Mar. 31	3084	739 740	74	1777
Judson, Whitcomb L., Chicago, Ill., assignor to Universal Fastener Company, of Illinois. Clasp-locker for shoes.....	557,208	Mar. 31	3088	740	74	1778
Juillard, Antonin, assignor to Le Fer & Cheval Caoutchouc, Paris, France. Horseshoe.....	562,302	June 16	2173	528 529	75	1824
Julian, Gideon, Boston, assignor, by mesne assignments, to C. F. Brown, trustee, Reading, Mass. Sole-rounding machine.....	555,009	Feb. 18	2138	509	74	936
Julian, Motier L., Fairfield, Iowa. Dish-cleaner.....	554,937	Feb. 18	2005	475	74	912
Juller, George C. (See Karl, Frank C., assignor.)						
Julig, Leopold, San Francisco, Cal. Bicycle.....	559,102	Apr. 28	2786	675	75	575
Julius, Paul. (See Bernthsen and Julius.)						
Junkermann, Charles G. (See Akeley and Junkermann.)						
Junkers, Hugo, Dessau, Germany. Calorimeter.....	555,956	Mar. 10	812	194	74	1301
Junkins, Leander D., Somerville, Mass. Hand-tacker.....	553,343	Jan. 21	1557	372	74	318
Junkins, Leander D., Somerville, Mass. Lasting-tool.....	566,863	Sept. 1	217	50	76	1323
Juney, Frank G., Rochester, N. Y. Plumb-level.....	569,500	Oct. 13	1348	317	77	270
Jungels, Johann P., Gross Glogau, Germany. Support for maps.....	572,547	Dec. 8	801	191 192	77	1446
Jury, Pierre, Fils, and E. Anzer, Paris, France. Tool for working wood, &c.....	564,753	July 28	2659	632	76	537
Just, John A., assignor to Asphaltina Company of America, Syracuse, N. Y. Making paving, roofing, or similar compositions.....	561,322	June 2	456	-----	75	1458
Justi, Henry D., Philadelphia, Pa. Support and carrier for artificial teeth.....	571,166	Nov. 10	1341	313	77	916
Justice, Alfred R. (See Doolittle, Elbridge C., assignor.)						
Justin, Joel G., assignor to Justin Projectile Company of West Virginia, Syracuse, N. Y. Shell for high explosives.....	572,261	Dec. 1	294	70, 71	77	1335
Justin Projectile Company of West Virginia. (See Justin, Joel G., assignor.)						
Juul, Christian W., Ellensburg, Wash. Automatic air-brake retainer.....	570,483	Nov. 3	81	19, 20	77	653
Kade, Charles F., assignor to E. I. Kade, Chicago, Ill. Soda-water apparatus.....	557,274	Mar. 31	3204	769	74	1798
Kade, Emma I. (See Kade, Charles F., assignor.)						
Kaempfer, David, assignor to Voigtlander & Sohn, Brunswick, Germany. Photographic objective.....	562,614	June 23	2713	657	75	1940
Kaestner, John D., Minneapolis, Minn. Boot or shoe heel.....	556,504	Mar. 17	1876	437	74	1513
Kahl, Henry, assignor of one-third to G. McGillivray, Pipe Stone, Minn. Churn.....	558,454	Apr. 14	1669	402	75	333
Kahle, James C., Oil City, Pa. Window.....	574,093	Dec. 29	3624	866	77	2030
Kahler, Charles H. (See Davies, James M., assignor.)						
Kahler, Ferdinand, Silver Grove, Ind. Machine for cutting noodles.....	559,713	May 5	604	145	75	797
Kahn & Bros., F. & L. (See Kahn, Lazard, assignor.)						
Kahn & Bros., F. & L. (See Kahn and Allen, assignors.)						
Kahn, H., <i>et al.</i> (See Vulpus, Herman, assignor.)						
Kahn, Lazard, assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Gas-stove.....	560,357	May 19	1861	424 425	75	1094
Kahn, Lazard, and E. D. Allen, assignors to F. & L. Kahn & Bros., Hamilton, Ohio. Stove.....	562,833	June 30	3110	753	75	2033
Kahn & Levy. (See Young and Rauk, assignors.)						
Kahn, Sol. (See Davies, Percy, assignor.)						
Kaicher, Anton. (See Fowler, Edward C., assignor.)						
Kailor, John N. (See Reeves and Kailor.)						
Kain, David F., Monroeville, Ind. Ditching-machine.....	555,010	Feb. 18	2140	510	74	936
Kaiser, Alexander O., Brooklyn, N. Y., assignor to G. Gennert, Jersey City, N. J. Photographic plate holder.....	567,596	Sept. 15	1513	364	76	1589
Kaiser, Andrew, Columbus, Ohio. Stovepipe-jointing machine.....	559,714	May 5	606	145	75	798
Kaiser, August, assignor to Eagle Pencil Company, New York, N. Y. Pencil-sharpener.....	562,303	June 16	2177	529	75	1821
Kaiser, Edward, Congerville, Ill. Gate.....	552,764	Jan. 7	481	119	74	91

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Kaiser, Edward, and J. Stocker, Congerville, Ill. Combined car-coupling and brake-operating attachment	566,687	Aug. 25	3104	759	76	1254
Kaiser, Friedrich A. J., Dresden, Germany. Carbonator	555,514	Mar. 3	51	11	74	1140
Kaiser, Jacob W., Cleveland, Ohio. Drafting-compass	559,177	Apr. 28	2959	714	75	608
Kaiser, William, Vienna, Austria-Hungary. Electrical igniting device	553,960	Feb. 4	290	65	74	558
Kalamakowski, Stanislaw, New York, N. Y. Fireproofing liquid	568,766	Oct. 6	96		77	21
Kalamakowski, Stanislaus, assignor to Electric Fire Proofing Company, New York, N. Y. Fireproof paint	556,849	Mar. 24	2439		74	1636
Kalamazoo Cycle Company. (See Blood, Maurice E., assignor.)						
Kalamazoo Sled Company <i>et al.</i> (See Nivison, Charles, assignor.)						
Kaldenberg, Frederick J., assignor to M. S. Kaldenberg, Tarrytown, N. Y. Tobacco-pipe	552,711	Jan. 7	367	96	74	71
Kaldenberg, M. S. (See Kaldenberg, Frederick J., assignor.)						
Kall, Christopher W., assignor of one-fourth to J. Klein, Rochester, N. Y. Blind-stop	555,169	Feb. 25	2434	577	74	1008
Kallam, Luther W., Martinsville, Va. Railway-car truck	553,068	Jan. 14	1063	259	74	213
Kalle & Co. (See Krecke and Rosenberg, assignors.)						
Kalling, Lewis, Baltimore, Md. Bottle-sealing device	561,792	June 9	1315	315	75	1643
Kallman, Max M., Chicago, Ill. Bank-draft	563,490	July 7	433	100	76	83
Kallmerten, Arnold, <i>et al.</i> (See Williams, Hubbard D. B., assignor.)						
Kaltenbeck, William H., Roxbury, assignor of one-half to T. Winters, Margaretville, N. Y. Car-fender	571,528	Nov. 17	1948	465	77	1043
Kaltenbeck, William H., Roxbury, assignor of two-thirds to T. Winters and C. C. Kaufman, Margaretville, N. Y. Car-fender	565,621	Aug. 11	1233	297	76	864
Kaltenbrunn, Anton, St. Nazianz, Wis. Feed-cutter	573,883	Dec. 29	3233	770	77	1958
Kamm, Leo, London, England. Printing-telegraph	572,760	Dec. 8	1190	286 288	77	1524
Kammann, Frank W. (See Stout, Amie E., assignor.)						
Kammer, John von der, Chicago, Ill. Bulb for X-rays	574,065	Dec. 29	3568	852	77	2020
Kammerer, Frank G., Chicago, Ill. Car-coupling	561,893	June 9	1489	359	75	1676
Kämmerer, Paul, Troisdorf, Germany. Machine for loading cartridges	553,245	Jan. 21	1371	334 335 336	74	286
Kamp, Berthold A., Evansville, Ind. Corn-sheller attachment	557,585	Apr. 7	104	27	75	21
Kampf, Franz, New York, N. Y. Adjustable rest for bicycles	558,815	Apr. 21	2282	554	75	462
Kampf, Joseph, assignor to H. Adler, trustee, Allegheny, Pa. Lamp-burner	569,501	Oct. 13	1349	317	77	270
Kampfe Brothers. (See Fuchs, Eugene J., assignor.)						
Kampfe, Frederick, R., and O., Brooklyn, N. Y. Safety-razor	554,823	Feb. 18	1806	423	74	876
Kampfe, Otto. (See Kampfe, Frederick, R., and O.)						
Kampfe, Richard. (See Kampfe, Frederick, R., and O.)						
Kanal, Morris E., Somerville, Mass. Seal-lock	558,181	Apr. 14	1192	291	75	243
Kandeler, Charles F. T., Chicago, Ill. Fireproof floor construction	559,081	Apr. 28	2742	667	75	566
Kandeler, Charles F. T., Chicago, Ill. Fireproof floor and ceiling construction	560,410	May 19	1956	447	75	1111
Kane, James M., and J. H. MacLauchlan, New Haven, Conn. Speed-indicator for vehicles	559,060	Apr. 28	2711	659 660	75	560
Kane, Maurice, Austin, Ill. Knotter-operating mechanism for grain-binders	564,622	July 28	2433	573	76	496
Kann, Myer M., Hulton, assignor to Pittsburgh Crushed Steel Company, Limited, Pittsburg, Pa. Polishing material and making same	552,712	Jan. 7	368		74	72
Kanski, Roman T., New York, N. Y. Signal-setting device	557,275	Mar. 31	3205	769 770	74	1798
Kapp, Gisbert, Berlin, Germany. Return-circuit for electric railways	570,599	Nov. 3	310	76	77	696
Kapp, James. (See Walkinshaw and Kapp.)						
Karavodin, Victor, St. Petersburg, Russia. Boiler	569,287	Oct. 13	980	235	77	202
Karch, William F., Dayton, Ohio. Hydrocarbon-burner	553,915	Feb. 4	218	47	74	545
Karfiel, Benzion, Brooklyn, N. Y., assignor to American Lace and Fancy Paper Works, of New York. Device for ruling paper	561,996	June 16	1656	405	75	1728
Karger, David, Milwaukee, Wis. Sash-curtain fixture and fastening	556,505	Mar. 17	1877	438	74	1513
Karl, Frank C., assignor of one-half to G. C. Julier, Cleveland, Ohio. Lubricator	561,323	June 2	457	112	75	1458
Karnicki, Michael, Warsaw, Russia. Coffin	572,118	Dec. 1	42	10, 11	77	1286
Karnicki, Michael, Warsaw, Russia. Apparatus for saving people buried alive	572,119	Dec. 1	44	11	77	1287
Karns, John H., Findlay, Ohio. Ax	561,000	May 26	3029	697	75	1327
Karns, William E., Parker's Landing, Pa. Packing-ring for pump-pistons	562,540	June 23	2565	623	75	1913
Karns, William E., Parker's Landing, Pa. Packing for oil-well pumps	568,069	Sept. 22	2348	567	76	1758
Kaselowsky, Emil, Berlin, Germany. Vaporizer for petroleum-engines	559,290	Apr. 28	3173	766	75	646
Kaseman, James, <i>et al.</i> (See Dreisbach, Amos M., assignor.)						
Kaspar, Frank J., Omaha, Nebr. Button-making machine	567,102	Sept. 1	656	153	76	1406
Kastengren, Gustavus E., San Francisco, Cal. Speed-measure and alarm	555,775	Mar. 3	476	114	74	1216
Kato, George P., Jr., Jersey City, N. J. Safety-fender for cars	559,979	May 12	1155	258	75	916
Kato, George P., Jr., Jersey City, N. J. Stand for lamps	571,568	Nov. 17	2018	480	77	1055
Kato, George P., Jr., Jersey City, N. J. Brush	571,569	Nov. 17	2019	480	77	1055
Katt, August C. (See Watt, Sern P., assignor.)						
Katz, Edmund E. (See Cave, William P., assignor.)						
Katz, Jacob, <i>et al.</i> (See Moehn, John N., assignor.)						
Katz, Sam, New York, N. Y. Waistband for trousers	562,615	June 23	2714	657	75	1940
Katz, Sam, New York, N. Y. Waistband for trousers	562,616	June 23	2715	657	75	1941
Katz, Sam, New York, N. Y. Waistband for trousers	562,617	June 23	2716	658	75	1941
Kauer, Hans. (See Konrad, Fromm, and Kauer.)						
Kaufer, Hale P., <i>et al.</i> (See Cooney, Luke, Jr., assignor.)						
Kaufhold, Friedrich, Merseburg, Germany. Lubricator	569,717	Oct. 20	1773	421	77	363
Kaufman, Charles C., <i>et al.</i> (See Kaltenbeck, William H., assignor.)						
Kaufman, Charles W. (See Kaufman, Frank S. and C. W.)						
Kaufman, Frank S. and C. W., Scranton, Pa. Wrench	574,094	Dec. 29	3626	866	77	2030
Kaufman, John, Philadelphia, Pa. Folding canopy for bicycles	570,285	Oct. 27	2765	658	77	562
Kaul, Adam, Knoxville, Pa. Glass-press	553,679	Jan. 28	2133	505	74	441
Kaup, Charles H., Western, Nebr. Self-measuring-faucet attachment	555,820	Mar. 3	555	132	74	1231
Kaup, William, assignor of one-half to P. Ulrich, Newark, N. J. Trolley	553,410	Jan. 21	1667	398	74	340
Kautz, Charles, Jr. (See Wilcox, Myron H., assignor.)						
Kay, Joseph W. (See Lambert, Frank, assignor.)						
Kaylor, John, Decatur, Ill. Convertible corn-planter	553,319	Feb. 25	2704	634	74	1058
Kaylor, John, assignor of one-third to Chambers, Bering, Quinlan Company, Decatur, Ill. Hay rake and loader	556,353	Mar. 17	1585	371 372	74	1458
Kayser, Charles, assignor to F. R. Minrath, New York, N. Y. Workman's time-recorder	558,281	Apr. 14	1361	332 333	75	274
Kayser, William J., assignor of one-fourth to E. W. Toler, Kansas City, Mo. Chimney cap and ventilator	559,388	May 5	63	14	75	692

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Kea, John W., Minden, La. Indexer	573,153	Dec. 15	1876	452	77	1674
Keach, Alfred S., Providence, R. I. Lamp-burner	572,943	Dec. 8	1499	359	77	1586
Keane, Harrison, Douglas, and M. Guider, Cork, Ireland. Trousers-stretcher	565,544	Aug. 11	1097	265	76	840
Kearney, John S. (See Turner, Edward H., assignor.)						
Kearney, Luke J., <i>et al.</i> (See French, Irwin J., assignor.)						
Kearns, William D., Pittsburg, Pa. Flexed fracture-splint	568,951	Oct. 6	401	90	77	77
Keasbey & Mattison Company. (See Rose, Thomas, assignor.)						
Keating, C. A. (See Hardy, Clement A., assignor.)						
Keating, Cecil A. (See Graber, Henry W., assignor.)						
Keating, George P. (See Steinbach, William E., assignor.)						
Keating, Jeremiah. (See Child, Keating, and Foy.)						
Keating, Jeremiah F., assignor of one-third to D. L. Davies, Utica, N. Y. Machine for turning neckties	555,170	Feb. 25	2435	577	74	1008
Keating, Robert M., Springfield, Mass. Bicycle-frame	559,178	Apr. 28	2961	715	75	608
Keating, Robert M., Springfield, Mass. Crank-shaft and bearing for bicycles	568,767	Oct. 6	97	23	77	21
Keating, Robert M., Springfield, Mass. Crank-shaft and bearing for bicycles, &c.	568,768	Oct. 6	98	23	77	21
Keavy, Thomas E., Philadelphia, Pa. Sandpapering and buffing machine	559,491	May 5	244	55, 56	75	729
Keays, George C., <i>et al.</i> (See Mummery, Edwin G., assignor.)						
Keck, Albert J., St. Paul, Minn. Necktie	573,467	Dec. 22	2486	589	77	1803
Keck, Elmer E. (See Sudenga and Keck.)						
Keck, Rudolf, Denver, Colo. Cyanid process of extracting precious metals from their ores	566,986	Sept. 1	451		76	1366
Keeble, Stephen W., W. P. and S. B. Tarbet, Lincoln, Nebr. Cigar-mold	558,078	Apr. 14	1029	251	75	211
Keedwell, Alfred N. (See Schoenberg, Flucker, and Keedwell)						
Keefe, John L., Dover Plains, N. Y. Signal-operating device	567,716	Sept. 15	1712	411	76	1628
Keeler, August, Layton Corners, Mich. Fence	573,468	Dec. 22	2487	559	77	1803
Keeler, Devillo W., Cattaraugus, N. Y. Box-cover fastener	556,932	Mar. 24	2583	608	74	1662
Keeler, Elisha S., Topeka, Kans. Fertilizer-distributor	553,246	Jan. 21	1374	336	74	287
Keeler, Elisha S., New Albany, Pa. Sulky	571,003	Nov. 10	1050	245	77	862
Keeler, Elisha S., New Albany, Pa. Bicycle or other vehicle coupling	573,469	Dec. 22	2488	590	77	1803
Keeler, George T. (See Conner, Joseph, assignor.)						
Keeler, John M., Baltimore, Md. Display-rack	568,199	Sept. 22	2579	621	76	1802
Keeler, William H., assignor to W. W. Hammond, Buffalo, N. Y. Inking-pad for hand-stamps	559,291	Apr. 28	3174	766	75	646
Keeler, William P., assignor of one-third to W. H. Stowell and C. M. Fassett, Spokane, Wash. Pump	564,080	July 14	1492	350	76	292
Keeling, Isaac N., Tomahawk, Ark. Vehicle-brake	558,282	Apr. 14	1366	333	75	275
Keen, Baltis E., Los Angeles, Cal. Wrench attachment	568,087	Sept. 22	2390	576	76	1767
Keen, James M., Digby, Canada. Bicycle-step	561,001	May 26	3030	698	75	1327
Keen, James M., Digby, Canada. Can-opener	565,462	Aug. 11	922	219	76	807
Keene, William L., Waterville, Me. Bicycle-lantern	557,394	Mar. 31	3412	819	74	1839
Keeney, Marble D., Antioch, Cal. Apparatus for cooking paper-stock	570,640	Nov. 3	409	97	77	714
Keeney, Marble D., Antioch, Cal. Paper-stock cooker	570,641	Nov. 3	411	97	77	714
Kees, Frederick, Minneapolis, Minn. Household ordering device	560,505	May 19	2119	485	75	1140
Kefuss, John D., Hudson, Mich. Vehicle roller-bearing	556,678	Mar. 17	2142	500	74	1562
Kehle, Emil. (See Schoenfelder and Kehle.)						
Kehoe, Michael J., assignor of one-half to J. P. Farrell, St. Louis, Mo. Carpet-holder	572,806	Dec. 8	1274	307	77	1539
Keighley, Sebastian E., Cobalt, Conn. Belt-punch	562,402	Aug. 25	2629	642	76	1165
Keighley, William B., Vineland, N. J. Perforating, pinking, and punching machine	557,276	Mar. 31	3208	770	74	1799
Keifel, Friedrich, Louisville, Ky. Trunk and hinge therefor	574,095	Dec. 29	3627	866	77	2030
Keil, Francis and H. F., New York, N. Y. Electric bell	560,506	May 19	2119	485	75	1140
Keil, Henry F. (See Keil, Francis and H. F.)						
Keil, Henry F., New York, N. Y. Spring-hinge	554,447	Feb. 11	1162	270	74	737
Keil, Henry F., New York, N. Y. Latch	554,448	Feb. 11	1163	270	74	737
Keilholtz, Pierre O., assignor of one-half to J. F. Heyward, Baltimore, Md. System of electric distribution	561,002	May 26	3031	698	75	1327
Keilholtz, Pierre O., assignor of one-half to J. F. Heyward, Baltimore, Md. Mechanism for locating and determining defects in rail-bonding	574,333	Dec. 29	4085	970	77	2113
Keim, Mahlon W. (See Haws, William H., assignor.)						
Keiner, Harvey L., Wilkes-Barré, Pa. Automatic funnel and stopper therefor	559,897	May 12	1017	225	75	887
Keiser, Andrew, Pittsburg, Pa. Puzzle	555,288	Feb. 25	2652	621	74	1048
Keiser, Clinton, Columbus, Ohio. Tile roof	554,274	Feb. 11	856	{ 196 197 }	74	678
Keith, Alexander E., assignor to Strowger Automatic Telephone Exchange, Chicago, Ill. Automatic telephone-exchange	573,884	Dec. 29	3235	770	77	1959
Keith, Elgin, assignor to S. Howes Company, Silver Creek, N. Y. Grain scourer and separator	558,182	Apr. 14	1193	291	75	243
Keith, Elgin, assignor to Howes Grain Cleaner Company, Silver Creek, N. Y. Grain-scourer	570,600	Nov. 3	312	76, 77	77	696
Keith, Elmer L., Mount Vernon, Iowa. Lock-jaw wrench	567,945	Sept. 15	2099	506	76	1701
Keith, Henry D., Mansfield, Ohio. Manifold account and sales book	553,916	Feb. 4	920	47	74	546
Keith, Henry D., Mansfield, Ohio. Rack	555,045	Feb. 18	2220	529	74	950
Keith, Henry D., Mansfield, Ohio. Manifold account and sales book	561,793	June 9	1316	315	75	1643
Keith, James H., <i>et al.</i> (See Schwarzmann, John, assignor.)						
Keithley, Herbert R., Buffalo, N. Y. Trolley-wire and trolley therefor	560,097	May 12	1390	313	75	958
Keithley, Herbert R., Buffalo, N. Y. Excavator	564,695	July 28	2537	{ 601 602 }	76	516
Keithley, Herbert R., Buffalo, N. Y. Excavator	564,696	July 28	2543	602	76	518
Keithley, Herbert R., Buffalo, N. Y. Excavating-machine	567,274	Sept. 8	953	227	76	1471
Keithley, Herbert R., New York, N. Y. Trolley-wire and trolley therefor	560,098	May 12	1391	313	75	958
Keithley, Herbert R., New York, N. Y. Road-rail for highways	572,303	Dec. 1	386	91	77	1352
Keithley, Herbert R., Chicago, Ill. Electric tunneling-machine	563,491	July 7	434	101	76	83
Keithly, Willie C., San Francisco, Cal. Electric-railway trolley system	563,244	June 30	3848	922	75	2177
Kelch, Wallace M., Dayton, Ohio. Electric weather-indicator	568,444	Sept. 29	2991	{ 719 720 }	76	1896
Kell, Samuel G., Denver, Colo. Bicycle-lock	564,623	July 28	2435	573	76	497
Kelleher, Jeremiah J., and H. Irwin, Frankfort, Ind. Gate-hinge	566,323	Aug. 25	2474	606	76	1136
Keller, Carl, Laggenbeck, Germany. Traction-engine	566,769	Sept. 1	60	15, 16	76	1291
Keller, Charles B., <i>et al.</i> (See Rothenberger, Daniel M., assignor.)						
Keller, Christian C., Philadelphia, Pa. Adjustable stereotype-plate holder	558,587	Apr. 21	1892	458	75	390
Keller, Christian C., Philadelphia, Pa. Stereotype-plate holder	564,624	July 28	2438	573	76	497
Keller, David A., Louisville, Ky. Hat-identifying mark	570,642	Nov. 3	415	98	77	714
Keller, George W., Shenandoah, Va. Railway-signal	573,414	Dec. 15	2343	{ 559 560 }	77	1758
Keller, Henry, <i>et al.</i> (See Berg, Peter H., assignor.)						
Keller, James D., Detroit, Mich. Bit	555,867	Mar. 3	641	154	74	1248

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Keller, James D., Detroit, Mich. Pneumatic hopple.....	556,314	Mar. 10	1513	352	74	1429
Keller, James M., Denver, Colo., assignor of one-half to A. O. Bassett, Chicago, Ill. Feed-water heater and condenser.....	570,435	Oct. 27	3083	{ 731 732 }	77	620
Keller, John D., assignor of one-half to O. Leu, Santa Clara, Cal. Rotary pump.....	570,643	Nov. 3	415	98	77	715
Keller, Julius, Philadelphia, Pa. Throttle-valve for pneumatic tools.....	560,802	May 26	2686	617	75	1262
Keller, Louis, New York, N. Y. Cleaning-rod for guns.....	553,472	Jan. 21	1764	421	74	358
Keller, Martha E., Fort Worth, Tex. Combined pessary and womb-battery.....	563,387	July 7	254	56	76	51
Keller, Moses A., Batavia, N. Y. Binding mechanism for harvesters.....	566,727	Aug. 25	3175	776	76	1266
Keller, Moses A., Batavia, N. Y. Binding mechanism for harvesters.....	569,580	Oct. 13	1504	355	77	300
Keller, Peter, Chicago, Ill. Gas-burner.....	569,155	Oct. 6	757	176	77	143
Keller, Solomon, assignor of one-half to W. R. Eyrich and W. Ehring, Reading, Pa. Car-coupling mechanism.....	557,826	Apr. 7	543	130	75	102
Keller, William F. (See Arbogast and Keller.)						
Kelley, Charles H., Revere, Mass. Lasting-machine.....	564,152	July 14	1614	378	76	317
Kelley, Daniel H. (See Campbell and Kelley.)						
Kelley, Daniel H., assignor of one-half to J. Campbell, Chelsea, Mass. Steam-shovel.....	558,908	Apr. 21	2441	{ 594 595 }	75	492
Kelley, Edward W., Lowell, Mass. Car-coupling.....	568,952	Oct. 6	402	91	77	77
Kelley, Edward W., assignor of one-half to R. B. Seeton and A. Livingston, Lowell, Mass. Faucet for beer or other casks.....	561,402	June 2	602	150	75	1485
Kelley, Edward W., and R. B. Seeton, assignors of one-third to A. Livingston, Lowell, Mass. Faucet for beer or other casks.....	557,395	Mar. 31	3413	820	74	1840
Kelley, Fred H. (See Blair and Kelley.)						
Kelley, Harry H. (See Swadling and Kelley.)						
Kelley, Harry H., Elyria, Ohio. Speed-measure.....	570,024	Oct. 27	2291	544	77	472
Kelley, Hubert, West Rutland, Vt. Machine for sawing stone.....	564,081	July 14	1493	350	76	293
Kelley, Isaac M., assignor of one-fourth to L. Reed, Clarksburg, W. Va. Apparatus for separating sulfur from coal.....	572,548	Dec. 8	801	192	77	1446
Kelley, Joe W. (See Revelle, Ford, and Kelley.)						
Kelley, John, East St. Louis, Ill. Metallic rod-packing.....	561,794	June 9	1317	315	75	1644
Kelley, William V. (See Marshall, Waldo H., assignor.)						
Kellner, Carl, Vienna, Austria-Hungary. Process of and means for producing bleaching agents.....	559,454	May 5	186	41	75	718
Kellner, Carl, Vienna, Austria-Hungary. Process of and apparatus for bleaching vegetable fibers.....	560,411	May 19	1958	{ 447 448 493 494 }	75	1111
Kellogg, Charles, Athens, Pa. Boiler.....	571,595	Nov. 17	2061	{ 447 448 493 494 }	77	1063
Kellogg, George W., Rochester, N. Y. Sterilizing apparatus.....	573,273	Dec. 15	2082	500	77	1711
Kellogg, John H., Battle Creek, Mich. Flaked cereals and preparing same.....	558,393	Apr. 14	1553	75	310	
Kellogg, John H., Battle Creek, Mich. Radiant-heat bath.....	558,394	Apr. 14	1554	379	75	310
Kellogg, John H., Battle Creek, Mich. Food compound.....	567,901	Sept. 15	2016	76	1687	
Kellogg, Milo G., Chicago, Ill. Multiple switchboard for telephone-exchanges. (Reissue.)	11,529	Apr. 7	916	229	75	171
Kellogg, William L., Indianapolis, Ind. Stave-bending machine.....	564,203	July 21	1712	{ 400 401 219 220 }	76	347
Kellogg, William L., Indianapolis, Ind. Heading-chipper.....	565,463	Aug. 11	922	{ 219 220 }	76	807
Kellogg, William L., Indianapolis, Ind. Stave-jointer.....	565,859	Aug. 11	1670	410	76	948
Kellow, Joseph, Jr., et al. (See Murray, William, assignor.)						
Kells, Phillip H., Adrian, Mich. Brick-machine cut-off.....	565,210	Aug. 4	482	{ 114 115 }	76	706
Kellum, Samuel M., Altman, Colo. Artificial limb.....	558,816	Apr. 21	2284	555	75	462
Kelly, Edward, et al. (See Johnston, Abner, assignor.)						
Kelly, Edward J., Monongahela City, Pa. Ball-bearing.....	573,982	Dec. 29	3424	820	77	1992
Kelly, Edwin L., Harvey, Ill. Leveling instrument.....	567,347	Sept. 8	1096	264	76	1497
Kelly, George B., assignor to Mason & Hamlin Company, Boston, Mass. Stringing device for pianofortes.....	564,082	July 14	1495	350	76	293
Kelly, George E., and H. A. Cullins, Springfield, Ohio. Whip.....	555,776	Mar. -3	478	114	74	1217
Kelly, Helena B., St. Louis, Mo. Hook and eye.....	561,403	June 2	604	150	75	1485
Kelly, Henry, assignor to himself and O. B. Taneyhill, Waterloo, Iowa. Well-drilling machine.....	570,130	Oct. 27	2481	{ 587 588 }	77	508
Kelly, Herbert S. (See Elder and Kelly.)						
Kelly, John F. (See Chesney and Kelly.)						
Kelly, John F., Pittsfield, Mass. Electrical apparatus.....	570,310	Oct. 27	2856	.....	77	578
Kelly, John F., assignor of one-half to C. C. Chesney, Pittsfield, Mass. Method of and means for detecting grounds.....	554,275	Feb. 11	859	197	74	678
Kelly, John F., assignor to Stanley Electric Manufacturing Company, Pittsfield, Mass. System of electrical distribution.....	559,530	May 5	308	75	75	742
Kelly, John F., assignor to Stanley Electric Manufacturing Company, Pittsfield, Mass. Dynamo-electric machine.....	559,531	May 5	309	75	75	742
Kelly, John F., and C. C. Chesney, assignors to Stanley Electric Manufacturing Company, Pittsfield, Mass. System of electrical distribution.....	571,270	Nov. 10	1515	358	77	948
Kelly, John F., C. C. Chesney, and P. W. Power, assignors to Stanley Electric Manufacturing Company, Pittsfield, Mass. Dynamo-electric machine.....	559,584	May 5	394	95	75	760
Kelly, John T. (See Marnaux and Kelly.)						
Kelly, O. S. (See Linn, John B., assignor.)						
Kelly, Oliver S. (See Allen and Krotz, assignors.)						
Kelly, Oliver S. (See Krotz and Allen, assignors.)						
Kelly, Oliver S. (See Neer, Harry M., assignor.)						
Kelly, Oliver S., et al. (See Allen, William P., assignor.)						
Kelly, Oliver S., et al. (See Krotz, Alvaro S., assignor.)						
Kelly, Oliver W., et al. (See Krotz, Alvaro S., assignor.)						
Kelly, Richard E., Alameda, Cal. Bicycle-alarm.....	561,667	June 9	1072	259	75	1598
Kelly, Stephen, Islip, and T. Moore, Bay Shore, N. Y. Brace for necks of musical instruments.....	557,277	Mar. 31	3212	770	74	1800
Kelly, Thomas, New Orleans, La. Actuating device for street-car gongs.....	573,224	Dec. 15	2003	481	77	1697
Kelly, W. J., et al. (See Maxon, Stiles E., assignor.)						
Kelly, William A., Cleveland, Ohio. Faucet for washstands.....	556,755	Mar. 24	2289	538	74	1607
Kelly, William B., Barboursville, Ky. Plow.....	562,618	June 23	2717	658	75	1941
Kelly, William H. (See Ryan, Patrick, assignor.)						
Kelly, William H., New York, N. Y. Rotary blotter.....	571,862	Nov. 24	2544	602	77	1173
Kelly, William W., Spencer, Mass., assignor to Davey Pegging Machine Company, Portland, Me. Pegging-machine.....	559,532	May 5	310	75	75	742
Kelsea, George K., assignor of two-thirds to J. J. Nolan and F. T. Caughey, Detroit, Mich. Bicycle-wrench.....	564,625	July 28	2439	573	76	497

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Kelsey, Benjamin F., and F. E. Dunham, Somerville, assignors to American Soda-Fountain Company, Boston, Mass. Die	567,030	Sept. 1	520	123	76	1380
Kelsey, Everett N. (See Wright and Kelsey.)						
Kelsey, Frank G. (See Platt, John D., assignor.)						
Kelsey, Frank N., assignor of one-half to C. L. Wright, New Haven, Conn. Trolley-stand	561,168	June 2	166	42	75	1398
Kelsey, James F. (See Green, Allison T., assignor.)						
Kelso, Norman C., Huntingburg, assignor, by mesne assignments, of one-half to I. L. Hardin, Ireland, Ind. Beehive	566,913	Sept. 1	302	71	76	1340
Kelso, Robert, and M. Rosenbaum, Philadelphia, Pa. Safety-pin	573,002	Dec. 15	1610	387	77	1623
Kelso, William. (See McConway, Kelso, and Curtis.) (Reissue.)						
Kelso, William H. (See Van Sickle, John F., assignor.)						
Kemble, Edmund. (See Carter and Kemble.)						
Kemble, Wallace C. (See Goulding and Kemble.)						
Kemp, Clarence M. (See Byrne, Edward J., assignor.)						
Kemp, Clarence M., Baltimore, Md. Air-gas machine	564,429	July 21	2095	{ 490 491 }	76	416
Kemp, George. (See Jokl and Christian, assignors.)						
Kemp, George W. (See Teetor and Kemp.)						
Kemp, Horace L., Camden, N. J. Shoe-tip-punching machine	573,274	Dec. 15	2084	{ 500 501 }	77	1712
Kemp, William, Jr., Washington, D. C. Type-matrix	569,876	Oct. 20	2030	484	77	410
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Quincy, Mass. Lacing hook or stud	552,841	Jan. 7	641	157	74	121
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Lacing-hook	553,165	Jan. 14	1231	300	74	245
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Eyelet-covering mechanism	553,166	Jan. 14	1231	300	74	246
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Eyelet	554,624	Feb. 11	1471	344	74	794
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Apparatus for covering eyelets	556,635	Mar. 17	2080	487	74	1551
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Tack	563,969	July 14	1292	302	76	255
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Button	565,276	Aug. 4	616	146	76	729
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Device for covering eyelets	566,080	Aug. 18	2064	503	76	1042
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Eyelet	568,687	Sept. 29	3461	828	76	1983
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Apparatus for covering lacing-hooks	569,969	Oct. 20	2196	{ 521 522 }	77	441
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Eyelet	569,970	Oct. 20	2198	522	77	441
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Lacing-hook	569,971	Oct. 20	2199	522	77	441
Kempshall, Eleazer, Newton, assignor to A. F. Smith, trustee, Lynn, Mass. Machine for setting metallic fastenings	561,324	June 2	458	113	75	1459
Kempshall, Eleazer, New York, N. Y., assignor to T. King, trustee, Boston, Mass. Lacing-hook	571,596	Nov. 17	2064	495	77	1063
Kempshall, Eleazer, Sharon, assignor to T. King, trustee, Boston, Mass. Lacing-stud	569,968	Oct. 20	2195	521	77	441
Kempshall, Eleazer, Sharon, assignor to Boston Fast Color Eyelet Company, Boston, Mass. Eyelet	553,164	Jan. 14	1230	299	74	245
Kempshall, Eleazer, Sharon, assignor to Boston Fast Color Eyelet Company, Boston, Mass. Eyelet	557,992	Apr. 7	828	197	75	156
Kempster, Daniel E., Boston, Mass. Horseshoe-nail	553,167	Jan. 14	1232	300	74	246
Kendall, Frederick P. (See Troyer, Nelson, assignor.)						
Kendall, James A., assignor of one-half to J. W. Swan, London, England. Process of and apparatus for making cyanids	569,104	Oct. 6	663	154	77	127
Kendall, John B., Washington, D. C. Fender for cars	553,754	Jan. 28	2262	536	74	466
Kendall, John L., Brooklyn, N. Y. Toy	564,083	July 14	1497	351	76	294
Kendall, Joseph W. (See Ward, Turner, and Kendall.)						
Kendall, Lemuel C., Boston, Mass. Bottle	561,668	June 9	1073	259	75	1598
Kendall, Webber G., Lowell, Mass., assignor to King Oil Elevator Company, Providence, R. I. Measuring-conveyer	564,329	July 21	1920	453	76	385
Kendall, William H., Cleveland, Ohio. Journal-box	568,313	Sept. 22	2771	667	76	1840
Kendall, William J., Reading, Pa. Car-fender	573,415	Dec. 15	2346	{ 560 561 }	77	1759
Kendrick, Charles H., Winchester, N. H. Purifying water	566,324	Aug. 25	2475		76	1136
Kendrick, William A., Washington, D. C. Automatic damper-regulator for boiler-furnaces	559,715	May 5	607	146	75	798
Kenevel, Jeannot W., assignor to Farmers Novelty Company, Chicago, Ill. Earth-auger	554,492	Feb. 11	1234	{ 288 289 }	74	749
Kenna, James E., Pittsburg, Pa. Button	569,581	Oct. 13	1505	355	77	300
Kenna, Michael P., assignor of one-third to F. L. Murray, Dubuque, Iowa. Coloring attachment for printing-presses	553,032	Jan. 14	988	{ 239 240 }	74	199
Kennard, Charles E., et al. (See Chase and Foster, assignors.)						
Kennard, Samuel C., et al. (See Paige, James H., assignor.)						
Kennedy, Albert H., Rockport, Ind. Motor-vehicle	561,997	June 16	1658	405	75	1728
Kennedy, Charles S., and J. W. McKee, Brooklyn, N. Y. Cylinder-lock	565,622	Aug. 11	1235	297	76	865
Kennedy, Donald. (See Locke and Kennedy.)						
Kennedy, George J., Philadelphia, Pa. Apparatus for lifting or forcing liquids	568,445	Sept. 29	2993	720	76	1896
Kennedy, Horace G., Denver, Colo. Bicycle-support	568,855	Oct. -6	246	57	77	48
Kennedy, Howard S., assignor to Cluett, Coon & Co., Troy, N. Y. Collar	552,962	Jan. 14	883	214	74	179
Kennedy, James, et al. (See La Rue, Lafayette M., assignor.)						
Kennedy, James M., Baker, Ga. Vise	568,353	Sept. 29	2846	684	76	1868
Kennedy, James M., assignor of seven-eighths to T. F. Johnston, H. L. Bunker, Hollidaysburg, W. F. Gable, and G. Hemperly, Altoona, Pa. Trolley mechanism	557,827	Apr. 7	544	130	75	102
Kennedy, John, Boston, Mass. Thill-coupling	553,001	Jan. 14	944	228	74	191
Kennedy, John J., Carbondale, Pa. Lubricator	560,723	May 26	2548	56	75	1235
Kennedy, John R., Courtland, N. Y. Bicycle-hub	564,697	July 28	2548	602	76	519
Kennedy, John R., Courtland, N. Y. Bicycle-hub	564,698	July 28	2549	603	76	519
Kennedy, Jonathan B., Collins, Ga. Draft appliance	570,484	Nov. 3	87	20	77	655
Kennedy, Julian, Pittsburg, Pa. Valve for blowing engines	552,909	Jan. 14	793	{ 192 193 }	74	162
Kennedy, Lawrence J. (See Bryce and Kennedy.)						
Kennedy-McGregor, John A., Chicago, Ill. Caster-wheel	557,597	Apr. 7	123	32	75	24
Kennedy, Patrick, Brooklyn, N. Y. Means for controlling electric currents	558,650	Apr. 21	1997	484	75	409
Kennedy, Richard G., assignor of four-fifths to C. Stewart, B. D. Reed, A. W. Pence, and C. J. Gibson, Pittsburg, Pa. Wire-fence tool	567,477	Sept. 8	1313	317	76	1537
Kennedy, Richard G., assignor of four-fifths to C. Stewart, B. D. Reed, A. W. Pence, and C. J. Gibson, Pittsburg, Pa. Wire fence	567,478	Sept. 8	1316	317	76	1537

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Kennedy, Robert T. and S. W., assignors of one-third to J. W. Glass, Bronwood, Ga. Churn	569,718	Oct. 20	1775	421	77	363
Kennedy, Samuel V., St. Paul, Minn. Mower	572,549	Dec. 8	802	192	77	1446
Kennedy, Samuel W. (See Kennedy, Robert T. and S. W.)						
Kennedy, Thomas, and T. Slattery, Chicago, Ill. Butchering appliance	570,025	Oct. 27	2292	544	77	472
Kennedy, Thomas C., and T. Maxon, Dayton, Ohio. Safety-guard for street-cars	564,521	July 21	2234	524	76	442
Kennedy, Thomas R., Rochester, N. Y. Stove	574,334	Dec. 29	4087	970 971	77	2113
Kennedy, Ward, Rockville, Ind. Gate	568,688	Sept. 29	3462	828	76	1983
Kennedy, William D., Gretna, La. Mixer for gas and air	562,619	June 23	2718	658 659	75	1941
Kennedy, William T., Indianapolis, Ind. Pneumatic tire	555,046	Feb. 18	2221	529	74	950
Kennel, Joseph A., assignor of two-thirds to H. H. Farr and J. M. Gale, Eaton, Ohio. Advertising device	572,262	Dec. 1	299	71, 72	77	1336
Kennelly, Arthur E. (See Houston and Kennelly.)						
Kennelly, David J. (See Lund, Frederick A., assignor.)						
Kennelly, David J. (See Young, Jackson B., assignor.)						
Kenner, Henry, Crowell, Tex. Breaking-rig	554,880	Feb. 18	1909	449	74	894
Kenney, David T., North Plainfield, N. J. Water-closet cistern	566,770	Sept. 1	62	16	76	1292
Kenney, David T., North Plainfield, N. J. Water-closet	566,771	Sept. 1	63	16, 17	76	1292
Kenney, Frank E., assignor of one-half to D. N. Nester, St. Paul, Minn. Apparatus for purifying feed-water	558,183	Apr. 14	1195	292	75	243
Kenney, Henry C. (See Vess and Kenney.)						
Kenney, James B. (See Smith, Edward C., assignor.)						
Kenney, James H., et al. (See McGinley, James, assignor.)						
Kenny, Paul T., New York, N. Y. Automatic-figure advertising device	568,854	Oct. 6	243	57	77	47
Kent, Archibald, Brooklyn, N. Y. Bicycle	559,943	May 12	1092	242	75	900
Kern, Adolph L. (See Prinz, Faustina, assignor.)						
Kent, Charles E., East Liverpool, Ohio. Stair-carpet fastener	556,270	Mar. 10	1409	331	74	1411
Kent, Charles E., East Liverpool, Ohio. Measuring-faucet	568,689	Sept. 29	3463	828	76	1983
Kent, Deville H., et al. (See Winters, John W., assignor.)						
Kent, Edward, and L. H. Clark, Fond du Lac, Wis.; said Kent assignor to said Clark. Carpet-beater	563,598	July 7	613	143	76	115
Kent, Henry A., London, England. Self-lighting gas-burner	556,506	Mar. 17	1878	438	74	1514
Kent, Milton A. (See Porter, Stephen, assignor.)						
Kent, William J., Brooklyn, N. Y. Horseshoe	553,344	Jan. 21	1558	372	74	319
Kent, William J., Brooklyn, N. Y. Toe-calk for horseshoes	553,345	Jan. 21	1560	373	74	319
Kent, William J., Brooklyn, N. Y. Punching-machine for making nail-holes in horseshoes	553,585	Jan. 28	1978	468	74	414
Kent, William J., Brooklyn, N. Y. Horseshoe	553,586	Jan. 28	1980	469	74	414
Kent, William W., Macon, Ga. Cotton-planter	556,824	Mar. 24	2407	565 566	74	1629
Kenyon, Bertrand P., et al. (See Billings, George W., assignor.)						
Kenyon, Dexter E. (See Sherman and Kenyon.)						
Kenzie, Wilson D., Beloit, Wis. Machine for making glue joints	556,679	Mar. 17	2144	500 501 688 689	74	1563
Keough, James C., Holyoke, Mass. Feeding mechanism for sewing-machines	564,887	July 28	2874	740 741	76	577
Kephart, George H., Spencerville, Ohio. Machine for pointing pins	557,209	Mar. 31	3090	741	74	1778
Kepler, George B. M., and S. R. Bashore, Port Royal, Pa. Lamp-burner	563,930	July 14	1216	285	76	242
Kerker, Thomas, assignor of one-third to R. F. Berreau, St. Paul, Minn. Propelling mechanism for bicycles or similar machinery	565,904	Aug. 18	1740	427	76	977
Kern, Ethelbert L., Denver, Colo. Railway-switch	565,754	Aug. 11	1479	362	76	910
Kern, Ethelbert L., Denver, Colo. Railway-switch	565,755	Aug. 11	1482	362	76	911
Kern, Isaac R., Kansas City, Mo. Rotary engine	556,354	Mar. 17	1588	372 373	74	1458
Kern, Michael H., and H. Tideman, assignors to Menominee Iron Works Company, Menominee, Mich. Hose-reel	561,229	June 2	267	66, 67	75	1419
Kerner, John G., Chicago, Ill. Dish-drainer	573,983	Dec. 29	3425	821	77	1993
Kerner, Marion H., New York, N. Y. Apparatus for producing tableaux vivants	570,255	Oct. 27	2711	645	77	553
Kerngood, Herman, Baltimore, Md. Button-fastener	564,888	July 28	2876	689	76	577
Kerngood, Herman, Baltimore, Md. Stud for clasps	564,889	July 28	2877	689	76	577
Kerngood, Herman, Baltimore, Md. Button	564,890	July 28	2877	689	76	577
Kerngood, Herman, Baltimore, Md. Garment-fastener	573,470	Dec. 22	2492	590	77	1804
Kernodle, George M., Birmingham, Ala. Axle-box	558,963	Apr. 28	2544	616	75	529
Kerns, Elmer E., Bradford, Pa. Fluid-pressure brake	564,522	July 21	2235	524	76	443
Kerns, Elmer E., Bradford, Pa. Fluid-pressure brake	564,523	July 21	2236	525	76	443
Kerns, Thomas M., Greason, Pa. Wire-fence tightener	567,142	Sept. 8	729	170	76	1432
Kerpely, Anton von, Vienna, Austria-Hungary. Apparatus for checking recoil of guns	553,990	Feb. 4	343	75	74	568
Kerr, Alexander W. (See Price, Thomas, assignor.)						
Kerr, Annie. (See Kerr, Benjamin, assignor.)						
Kerr, Archibald, Carmichaels, Pa. Incubator	568,618	Sept. 29	3330	798	76	1958
Kerr, Benjamin, Toronto, assignor to A. Kerr, Forest, Canada. Automatic apparatus for elevating liquids	567,987	Sept. 1	451	104	76	1367
Kerr, Charles, Chicago, assignor to J. E. Davis, Oak Park, Ill. Rack for presses	569,502	Oct. 13	1351	317	77	270
Kerr, James M., assignor of one-half to C. G. Moritz, New York, N. Y. Curtain-rod	559,716	May 5	612	146	75	799
Kerr, John. (See Root, George I., assignor.)						
Kerr, John F., et al. (See McCollom, William J., assignor.)						
Kerr, Josiah A., Greenville, Ohio. Shingling-bracket	571,374	Nov. 17	1686	399	77	995
Kerr, Samuel E. (See Bowman and Kerr.)						
Kerr, Thomas A. (See Briggs, Charles H., assignor.)						
Kerrigan, John, Philadelphia, Pa. Car-fender	555,777	Mar. 3	479	115	74	1217
Kersey, Robert H., Lebanon, Ind. Well-drilling machine	558,877	Apr. 21	2387	589 583	75	482
Kerst, John G., Springfield, Ill. Brick rougher and sander	556,988	Mar. 24	2677	631	74	1680
Kerst, John G., Springfield, Ill. Brick rougher and sander	567,542	Sept. 8	1405	338	76	1553
Kerstetter, John F., assignor to Star Novelty Company, Limited, Milton, Pa. Device for suspending stove-lid lifters, &c	558,817	Apr. 21	2285	555	75	462
Kerstetter, James L., Milton, Pa. Device for suspending stove-lid lifters	567,597	Sept. 15	1514	365	76	1589
Keshner, Peter, and H. Laux, Carlyle, Ill. Railway tie and clamp	568,619	Sept. 29	3332	798	76	1959
Kesselring, John, Girardville, Pa. Railway-switch	557,828	Apr. 7	545	131	75	103
Kessler, William F. (See Grulke and Kessler.)						
Kester, John H., Winston, N. C. Tobacco casing and flavoring machine	556,989	Mar. 24	2679	632	74	1680

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Kester, John H., Winston, N. C. Machine for casing and flavoring tobacco	561,325	June 2	460	{ 114 115 }	75	1459
Kester, Thomas W., assignor of one-half to A. L. Lentz, Treichler, Pa. Combined oil-can and torch	574,335	Dec. 29	4089	971	77	2114
Ketcham, Lincoln H., Corning, Ohio. Post-driver	553,002	Jan. 14	945	229	74	191
Ketcham, Orman W., Brooklyn, N. Y. Bicycle-tire	554,493	Feb. 11	1236	289	74	750
Ketchum, J. E., <i>et al.</i> (See Lotze, Ernst J., assignor.)						
Ketchum, Oliver W., Toronto, Canada, assignor of one-half to E. A. Griffith, Baltimore, Md. Button and button-fastener	555,868	Mar. 3	642	154	74	1248
Ketchum, Oliver W., assignor to J. P. Northey, Toronto, Canada. Die for crowning sheet-metal pulleys	565,993	Aug. 18	1935	468	76	1018
Kewley, James, Toledo, Ohio. Excavator	552,580	Jan. 7	131	36, 37	74	26
Key, George F., <i>et al.</i> (See Hawkins, Frederick W., assignor.)						
Key, George F., Ann Arbor, assignor of two-thirds to F. W. Hawkins, Detroit, Mich., and F. B. Hawkins, Hammond, Ind. Railway-tie	568,446	Sept. 29	2996	720	76	1896
Key, Joseph H., H. Brevard, and W. R. Purifoy, Rockdale, Tex. Combined door-bell and mail-receiver	568,306	Sept. 22	2756	663	76	1837
Keyes, Atwood B., Princeton, and C. F. Cowdrey, Fitchburg, Mass. Wheel-rim	560,853	May 26	2788	639	75	1282
Keyes, Edward C. (See Mitchell, James A., assignor.)						
Keyes, Frank R., and C. A. Baker, Binghamton, N. Y. Cigar-bunch-rolling machine	571,375	Nov. 17	1687	{ 400 401 402 }	77	995
Keyes, Frank R., C. A. Baker, and J. Bunn, Binghamton, N. Y.; said Bunn assignor to said Keyes and Baker. Cigar-bunch-rolling machine	566,325	Aug. 25	2476	{ 606 607 608 }	76	1136
Keyes, Horatio, Terre Haute, Ind. Mine trap-door	571,570	Nov. 17	2021	{ 480 481 482 }	77	1056
Keyes, James A., New York, N. Y., assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator	563,182	June 30	3739	{ 895 896 897 }	75	2157
Keyes, James A., assignor, by mesne assignments, to Greenfield Automatic Fastener Company, New York, N. Y. Stapling-machine	572,346	Dec. 1	452	106	77	1364
Keyes, James A., and H. F. Lee, New York, N. Y. Stapling implement	563,970	July 14	1292	302	76	255
Keyes, Pearl, Hot Springs, Ark. Adjustable reflecting-screen	569,503	Oct. 13	1352	318	77	271
Keys, Robert, Detroit, Mich. Teakettle and attachment	558,079	Apr. 14	1030	251	75	211
Keyser, Charles C., New Decatur, Ala. Milling attachment for lathes	565,277	Aug. 4	618	146	76	729
Keyser, William A., Granite Mountain, Tex. Feed-screw for rock-drills	555,604	Mar. 3	204	47	74	1167
Keystone Axle Company. (See Rowley, John T., assignor.)						
Keystone Car Door and Supply Company. (See Coder and Ruffhead, assignors.)						
Keystone Cream Separator Company. (See Hartmann, William C., assignor.)						
Keystone Heater Company. (See Rice, Frank L., assignor.)						
Keystone Manufacturing Company. (See Packer, George W., assignor.)						
Keystone Watch Case Company. (See Hunter, Ernest H., assignor.)						
Keystone Watch Case Company. (See Mink, Fritz, assignor.)						
Keystone Watch Case Company. (See Mink and Moore, assignors.)						
Khotinsky, Achilles de, assignor to American Bell Telephone Company, Boston, Mass. Telephone signal and signaling-circuit	560,617	May 19	2307	528	75	1174
Khotinsky, Achilles de, assignor to American Bell Telephone Company, Boston, Mass. Protective appliance for electrical apparatus	564,084	July 14	1498	351	76	294
Khotinsky, Achilles de, assignor to American Bell Telephone Company, Boston, Mass. Telephone substation apparatus	565,080	Aug. 4	205	51	76	655
Khotinsky, Achilles de, assignor to American Bell Telephone Company, Boston, Mass. Lightning-arrester	571,669	Nov. 17	2183	526	77	1086
Kidder, Leland, Town Line, N. Y. Corset-fastening	561,795	June 9	1319	315	75	1644
Kidder Press Manufacturing Company. (See Meisel, Francis, assignor.)						
Kidder Press Manufacturing Company. (See Meisel and Fischer, assignors.)						
Kidder, Wellington P., Boston, Mass. Platen-shift for type-writing machines	564,699	July 23	2550	603	76	519
Kidder, Wellington P., Boston, Mass. Desk	570,311	Oct. 27	2857	677	77	578
Kidder, Wellington P., assignor to W. P. Kidder, Boston, Mass., and C. R. Bishop, New Haven, Conn., trustees. Key-action for type-writing machines	567,241	Sept. 8	881	211	76	1459
Kidder, Wellington P., assignor to W. P. Kidder, Boston, Mass., and C. R. Bishop, New Haven, Conn., trustees. Type-writing machine	567,242	Sept. 8	882	211	76	1460
Kidney, George H., Cleveland, Ohio. Potato-digger	559,455	May 5	188	41	75	718
Kidney, Henry P., assignor of one-half to L. T. Davis, Harriman, Tenn. Neck-yoke	553,784	Jan. 28	2305	546	74	475
Kieckhefer Brothers Company. (See Mohr, Ernest, assignor.)						
Kiefel, Frank, Cincinnati, Ohio. Automatic track-cleaning device	566,456	Aug. 25	2764	672	76	1189
Kiefer, John, Cleveland, Ohio. Device for washing and cleaning windows	569,105	Oct. 6	666	154	77	127
Kiefer, Leopold, <i>et al.</i> (See Gottshall, Martin, assignor.)						
Kiefer, Samuel. (See Campbell and Kiefer.)						
Kiehl, August F., Norfolk, Nebr., assignor of one-third to F. O. Kiehl, Reedsville, Wis. Bridle-bit	570,312	Oct. 27	2858	677	77	578
Kiehl, Frederick O. (See Kiehl, August F., assignor.)						
Kierski, Dora. (See Kierski, George, assignor.)						
Kierski, George, assignor to D. Kierski, New York, N. Y. Skirt-supporter	574,248	Dec. 29	3949	938	77	2087
Kies, Charles B., Rochester, N. Y. Printing device	573,003	Dec. 15	1611	{ 387 388 389 }	77	1624
Kiesler, Joseph, Chicago, Ill. Power-shovel	563,492	July 7	437	101	76	84
Kiesow, August, London, England. Lamp	557,829	Apr. 7	547	{ 131 132 133 }	75	103
Kifer, James, North Hope, Pa. Pipe-valve for oil-wells	556,850	Mar. 24	2440	573	74	1636
Kihn, John L., and W. T. Reed, assignors to C. Pabst, Hamilton, Ohio. Bottle-washer	573,885	Dec. 29	3237	770	77	1939
Kilberg, Albert M. (See Harrison and Kilberg.)						
Kilby, John S. (See Sanford and Kilby.)						
Kilgore, John H. (See Mowery, Robert, assignor.)						
Kilgour, Bayard L., Cincinnati, Ohio. Safety-brake for street-cars	573,516	Dec. 22	2561	608	77	1816
Kilian, Conrad J., assignor to United States Axle and Skein Company, Milwaukee, Wis. Wagon-axle	572,807	Dec. 8	1275	307	77	1540
Kilian, Martin, Neuhausen, Switzerland. W. Rathenau, Berlin, Germany, and C. Suter, Neuhausen, Switzerland, assignors to Elektrochemische Werke, Berlin, Germany. Diaphragm for electrolytic purposes	562,304	June 16	2178	529	75	1835
Killackey, Martin, and T. Madden, Philadelphia, Pa. Dumping-wagon	565,545	Aug. 11	1098	{ 265 266 267 }	76	840
Killam, James C., Chelsea, assignor to Boston Wood Rim Company, Bedford, Mass. Scarf-ing-machine	566,187	Aug. 18	2247	{ 549 550 551 }	76	1076
Killeen, Margaret, Halifax, Canada. Combined washing and wringing machine	552,842	Jan. 7	642	158	74	121

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Killian, Martin, Central City, Colo. Tool for miners' and blasters' use.....	572,808	Dec. 8	1276	307	77	1540
Killinger, John, Wayne, Pa. Self-locking bolt.....	554,494	Feb. 11	1237	289	74	750
Killingsworth, Thomas H., Waco, Tex. Baling-press.....	565,081	Aug. 4	267	52	76	656
Killman, Thomas A., and H. A. Bratten, Liberty, Tenn. Weighing and computing scales.....	565,756	Aug. 11	1485	363	76	912
Kilmer, Charles E., Troy, N. Y., and W. Randel, Elizabeth, N. J. Device for applying liquids.....	567,598	Sept. 15	1516	365	76	1589
Kilpatrick, Alfred B., St. Louis, Mo. Sand-molding machine.....	564,891	July 28	2879	690	76	578
Kilpatrick, Washington I. (See Hallenbeck, Joseph P., assignor.)						
Kimball, Benjamin A. (See Cushman, Abe L., assignor.)						
Kimball, Charles M., Toledo, Ohio. Boat-propelling apparatus.....	552,910	Jan. 14	795	193	74	162
Kimball, Charles O. (See Fletcher, Kimball, and Clark.)						
Kimball, Handley B., assignor of one-half to R. Jacobs, Birmingham, Ala. Metallic cover for tables.....	562,226	June 16	2049	496	75	1800
Kimball, Jeremiah C., Boston, Mass. Antifriction drawer-support.....	562,768	June 23	2971	719	75	1990
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Centrifugal machine.....	553,491	Jan. 21	1803	428	74	365
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Centrifugal machine.....	565,278	Aug. 4	630	147	76	730
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Liquid-separator.....	565,279	Aug. 4	621	147	76	730
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Liquid-separator.....	565,280	Aug. 4	622	147	76	730
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Centrifugal separator.....	565,281	Aug. 4	623	148	76	730
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Centrifugal separator.....	566,457	Aug. 25	2765	672	76	1189
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Centrifugal separator.....	566,458	Aug. 25	2766	673	76	1190
Kimball, Samuel, Lawrence, Kans. Bale-tie machine.....	570,555	Nov. 3	220	57, 58	77	678
Kimball, William W., Washington, D. C. Recoil-operated bolt-gun.....	554,068	Feb. 4	477	108, 109	74	592
Kimbell, Thomas W., New York, N. Y. Check-stub holder.....	562,020	June 23	2720	659	75	1941
Kimble, Fred, Los Angeles, Cal. Prune or fruit dipper, weigher, and spreader.....	564,381	July 21	2007	472	76	400
Kimble, Sam, Manhattan, Kans. Playing-cards.....	567,646	Sept. 15	1599	384	76	1605
Kimes, Jesse B. (See Courtney and Schwartz, assignors.)						
Kimmel, Benjamin G., et al. (See Collyer, Albert E., assignor.)						
Kimmel, Orison T., et al. (See Collyer, Albert E., assignor.)						
Kimmell, Edward G., Keyser, W. Va. Valve.....	563,183	June 30	3746	897	75	2159
Kincade, John M., Westville, Ohio. Car-coupling.....	569,023	Oct. 6	530	122	77	101
Kincaid, James R., et al. (See Roberts, William J., assignor.)						
Kincaid, Joseph W., Reading, Pa. Shutter-worker.....	566,188	Aug. 18	2250	550	76	1077
Kincaid, William M., Moberly, Mo. Gate.....	558,082	Apr. 14	1033	252	75	212
Kinder, Joseph J. de. (See Wronski, André, assignor.)						
Kinderman, William, Troutville, Pa. Weather-board clamp.....	561,003	May 26	3033	698	75	1328
Kindermann & Co., C. F. (See Mayer, Otto F., assignor.)						
Kindig, Samuel C., Baltimore, Md. Extension-ladder and fire-escape.....	570,730	Nov. 3	575	132	77	744
Kindl, Frederick H., Pittsburg, Pa. Car-truck.....	559,292	Apr. 28	3175	767	75	647
Kindl, Frederick H., Pittsburg, Pa. Car-truck.....	570,286	Oct. 27	2766	658	77	563
Kindl, Frederick H., assignor to Carnegie Steel Company, Limited, Pittsburg, Pa. Structural shape and column.....	559,335	Apr. 28	3252	785, 786	75	662
Kindlen, Perl. (See Rieff and Kindlen.)						
Kindling Wood Machinery Company. (See O'Neil, Alexander G., assignor.)						
Kindt, Frederick, Saratoga, assignor of one-third to J. C. Davis, Rawlins, Wyo. Apparatus for preventing sinking of ships and for raising sunken vessels, &c.....	557,396	Mar. 31	3414	820	74	1840
Kineman, George J., San Francisco, Cal., and J. De Zamora, Chicago, Ill. Revolving trapeze.....	567,543	Sept. 8	1409	338, 339	76	1554
King, Calvin W., Seymour, Mo. Water-pot for stovepipes, &c.....	561,261	June 2	311	79	75	1428
King, Calvin W., assignor of one-half to W. R. Jackson, S. L. White, J. W. Fuson, and J. R. Taggard, Seymour, Mo. Car-truck.....	553,346	Jan. 21	1582	373	74	320
King, Charles, assignor of one-half to W. E. Moore, Grand Rapids, Mich. Carpet-sweeper.....	563,388	July 7	255	57	76	51
King, Charles C. (See Hunt and King.)						
King, Charles G. Y., assignor of one-half to S. Insull, Chicago, Ill. Oil-cup.....	553,991	Feb. 4	345	76	74	568
King, Charles M. (See Preston, George A., assignor.)						
King, Daniel, Finksburg, Md. Hay-rack.....	558,498	Apr. 21	1746	424	75	363
King, Frank, assignor to J. I. Courtenay, London, England. Secondary battery.....	568,447	Sept. 29	2997	721	76	1897
King, George J., Oakland, Cal. Electrical annunciator.....	560,358	May 19	1863	425	75	1094
King, George W., Marion, Ohio. Steam-shovel.....	567,395	Sept. 8	1184	283	76	1512
King, George W., and H. J. Barnhart, assignors to Marion Steam Shovel Company, Marion, Ohio. Friction-clutch.....	558,691	Apr. 21	2075	502	75	424
King, H. C. (See Spaulding, Frank M., assignor.)						
King, Henry C. (See Dillon, Peter, assignor.)						
King, Howard K., assignor to Chambers Brothers Company, Philadelphia, Pa. Sheet-adjusting device for paper-folding machines.....	574,153	Dec. 29	3724	887, 888	77	2047
King, James C., et al. (See Markley, John A., assignor.)						
King, James M., Blue Springs, Nebr. Grain-drill.....	573,416	Dec. 15	2347	561	77	1759
King, Jefferson D. (See Tise and King.)						
King, John B., and G. W. Carhart, Bath Beach, N. Y., assignors, by mesne assignments, to Railway Triplex Ticket Company, of New Jersey. Autographic register.....	567,785	Sept. 15	1825	438	76	1649
King, John, C. Downes, and J. Waddington, Buenos Ayres, Argentine Republic. Fire-bar support and deflector.....	569,646	Oct. 20	1628	384, 385	77	339
King, John J. (See McWhirter, William H., assignor.)						
King, John S., Toronto, Canada. Ventilated boot.....	556,825	Mar. 24	2410	566	74	1629
King, Julius. (See Hinden, Mathias J., assignor.)						
King, Leicester P., Cincinnati, Ohio. Pipe-union.....	565,411	Aug. 4	831	196	76	770
King Oil Elevator Company. (See Kendall, Webber G., assignor.)						
King, Paul B., Buffalo, N. Y. Paper doll.....	565,994	Aug. 18	1936	468	76	1018
King, Samuel R., Providence, R. I. Nipple.....	566,988	Sept. 1	452	105	76	1367
King, Theodore E., Westport, Conn. Miter-box.....	562,899	June 30	3232	781	75	2057
King, Theophilus, trustee. (See Kempshall, Eleazer, assignor.)						
King, Theophilus, trustee. (See Reenatierna, Gustaf L., assignor.)						
King, Victor J., Auburn, N. Y. Puzzle.....	568,483	Sept. 29	3054	735	76	1907
King, William, assignor of one-half to R. J. Martinez, New Orleans, La. Marine vessel.....	559,717	May 5	613	146, 147	75	799

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King, William, assignor of one-half to R. J. Martinez, New Orleans, La. Sailing vessel.....	559,718	May 5	614	{ 147 148 }	75	800
King, William L., Winston, N. C. Underground electric power system for railways.....	572,013	Nov. 24	2808	662	77	1223
King, William R., New York, N. Y. Electric furnace.....	562,404	June 23	2345	572	75	1872
King, William R., and F. Wyatt, New York, N. Y. Electric furnace.....	562,400	June 23	2339	570	75	1870
King, William R., and F. Wyatt, New York, N. Y. Apparatus for generating acetylene gas.....	562,401	June 23	2340	571	75	1871
King, William R., and F. Wyatt, New York, N. Y. Forming calcium carbid.....	562,402	June 23	2342	571	75	1871
King, William R., and F. Wyatt, New York, N. Y. Electric furnace.....	562,403	June 23	2344	571	75	1871
Kingsman, Morrison M., Chelan, Wash. Windmill attachment.....	504,065	July 14	1500	351	76	294
Kingsbury & Co., George L. (See Kingsbury, George L., assignor.)						
Kingsbury, George L., Enfield, assignor to G. L. Kingsbury & Co., Hartford, Conn. Grip for portable fire-escapes.....	556,099	Mar. 10	1090	260	74	1351
Kingsford, Thomson. (See Gunston, Byron M., assignor.)						
Kingsford, Thomson. (See Joy, Robert, assignor.)						
Kingsford, Thomson. (See Perkins, Pardon T., assignor.)						
Kingsland Flue Scraper Company. (See Kingsland, Philip S., assignor.)						
Kingsland, Jacob D., Burlington, Vt. Spool-cutting lathe.....	554,881	Feb. 18	1910	449	74	894
Kingsland, Philip S., Chicago, Ill. Adjustable handle for bicycles.....	567,243	Sept. 8	885	212	76	1460
Kingsland, Philip S., assignor to Kingsland Flue Scraper Company, Chicago, Ill. Lock-chain.....	553,650	Jan. 28	2089	492	74	433
Kingsley, Albert F., Washington, D. C. Boiler-furnace.....	568,200	Sept. 22	2580	621	76	1803
Kinston, James L., Boston, Mass. Extension curtain-rod.....	565,546	Aug. 11	1099	266	76	840
Kiniewski Boleslaw. (See Gostomski and Kiniewski.)						
Kinkaid, James P. (See Moneymant, Matthew, assignor.)						
Kinkead, James H., Virginia City, Nev. Rock crushing and grinding apparatus.....	559,980	May 12	1159	259	75	917
Kinkel, Charles, assignor of five-eighths to F. Ruppert and H. Mock, New York, N. Y. Machine for cleaning windows or other surfaces.....	574,202	Dec. 29	3857	919	77	2069
Kinkele, Robert A., and C. L. Wolff, Stapleton, N. Y. Fireproof floor.....	566,189	Aug. 18	2251	550	76	1077
Kinkele, Robert A., and C. L. Wolff, Stapleton, N. Y. Fireproof floor.....	566,190	Aug. 18	2252	{ 550 551 }	76	1077
Kinmont, William J., et al. (See Taylor, Call, assignor.)						
Kinnard, Will M., Dayton, Ohio. Memorandum sales-slip book.....	558,081	Apr. 14	1032	252	75	211
Kinnard, Will M., Dayton, Ohio, assignor to Carter-Crume Company, Niagara Falls, N. Y. Autographic register.....	558,080	Apr. 14	1031	{ 251 252 }	75	211
Kinnard, Will M., Dayton, Ohio, assignor to Carter-Crume Company, Niagara Falls, N. Y. Cover for memorandum sales-slip books.....	565,995	Aug. 18	1937	468	76	1018
Kinne, Alfred A., Minneapolis, Minn., assignor to M. M. Kinne. Oil-stove.....	568,448	Sept. 29	2998	721	76	1897
Kinne, Myron M. (See Kinne, Alfred A., assignor.)						
Kinnear, William J., Luzerne, N. Y. Can-opener.....	571,835	Nov. 24	2495	591	77	1164
Kinnear, William R., Columbus, Ohio. Fireproof blind.....	572,014	Nov. 24	2810	{ 662 663 }	77	1223
Kinnear, William R., Columbus, Ohio. Machine for making metallic slats.....	572,015	Nov. 24	2811	{ 663 664 }	77	1224
Kinner, George A., et al. (See Saxton, Augustus C., assignor.)						
Kinney, Alfred W., assignor, by mesne assignments, to Pratt & Whitney Company, Hartford, Conn., and A. J. Oehring, Chicago, Ill. Drilling-machine.....	558,497	Apr. 21	1745	423	75	363
Kinney, Edward H., et al. (See Merritt, William B., assignor.)						
Kinney, Fred O., Egypt, Ark. Combined harrow and roller.....	573,984	Dec. 29	3426	821	77	1993
Kinney, Frederick S., St. Louis, Mo. Baker's oven and stove.....	572,206	Dec. 1	189	46, 47	77	1314
Kinney, James B. (See Smith, Edward C., assignor.)						
Kinney, John J. (See Weigle, Edward B., assignor.)						
Kinney, John M. (See Fuller and Kinney.)						
Kinney, John M., Boston, Mass. Conduit for electrical conductors.....	557,830	Apr. 7	550	132	75	103
Kinsey, Isaac. (See Kirby and Kinsey.)						
Kinsey, Lottie A., et al. (See Greene, Thomas C., assignor.)						
Kinsey, Susannah M., executrix. (See Stubbers, Joseph, assignor.)						
Kinsley, James D., and S. L. Powers, Newton, Mass. Toy water-wheel.....	568,856	Oct. 6	247	58	77	48
Kinsley, William B., Melrose, assignor to Boston Rubber Shoe Company, Boston, Mass. Rubber shoe.....	573,664	Dec. 22	2853	673	77	1873
Kinsman, Frank E., Plainfield, N. J. Automatic operation of electric generators.....	562,541	June 23	2567	623	75	1913
Kint, George, Oelwein, Iowa. Clothes pounder.....	564,892	July 28	2880	690	76	578
Kintner, Charles J. (See Quarrie, George, assignor.)						
Kintner, Charles J., et al. (See McKechnie, Archibald E., assignor.)						
Kintner, Wilbur F., Leadville, Colo. Smoke separator and conveyer.....	560,219	May 19	1612	363	75	1051
Kintzing, William F., Glen Rock, Pa. Wire-splicing machine.....	566,688	Aug. 25	3106	759	76	1255
Kintzing, William F., Glen Rock, Pa. Tension device for loom-shuttles.....	566,689	Aug. 25	3107	759	76	1255
Kinyon, Alonzo G., Elgin, Ill., assignor to J. M. Barr, St. Paul, Minn. Hose-coupling.....	559,389	May 5	65	15	75	693
Kinyon, Alonzo G., Elgin, Ill., assignor to J. M. Barr, St. Paul, Minn. Hose-coupling.....	559,390	May 5	67	15	75	693
Kinzer, John J., Jr., assignor to Kinzer & Jones Manufacturing Company, Pittsburg, Pa. Brake-shoe connection.....	565,004	Aug. 4	74	18	76	631
Kinzer & Jones Manufacturing Company. (See Kinzer, John J., Jr., assignor.)						
Klous, Jasper D., Momence, assignor to W. C. Curtis, Grant Park, Ill. Combined pencil and pen holder.....	570,932	Nov. 10	934	217	77	841
Kipp, Burton E., Philadelphia, Pa. Desk-lid support.....	566,191	Aug. 18	2253	551	76	1077
Kippels, Bruno, and W. Zeller, Moorehead, Minn. Plaiting-machine.....	564,893	July 28	2981	690	76	578
Kips, John, New York, N. Y. Electric cut-out and annunciator.....	567,599	Sept. 15	1517	365	76	1589
Kips, John, Yonkers, assignor of two-thirds to M. Geiszler, New York, and A. G. Hupfel, Johnsville, N. Y. Electric annunciator.....	555,101	Feb. 25	2321	551	74	986
Kirby, A. Eugene, et al. (See Geisler, Joseph F., assignor.)						
Kirby, John, Jr., assignor to Dayton Manufacturing Company, Dayton, Ohio. Lamp.....	557,397	Mar. 31	3416	820	74	1840
Kirby, John, Jr., assignor to Dayton Manufacturing Company, Dayton, Ohio. Lamp.....	567,833	Sept. 15	1918	460	76	1667
Kirby, John, Jr., and I. Kinsey, assignors to Dayton Manufacturing Company, Dayton, Ohio. Vapor-stove.....	567,479	Sept. 8	1317	{ 317 318 }	76	1537
Kirby Manufacturing Company. (See Geddes, Charles A., assignor.)						
Kirby, Robert G. (See Turner, Kirby, and Turner.)						
Kirchner, H. W. (See Stern, Philip K., assignor.)						
Kirk, Carlton J., et al. (See Bisbing, Charles I., assignor.)						
Kirk, Thomas F., Jr., et al. (See McGuire, Robert C., assignor.)						
Kirk, Wallace R., Kansas City, Mo. Railway-siding.....	553,247	Jan. 21	1378	337	74	287
Kirkgaard, Georg, Giffords, N. Y. Repair-tool for pneumatic tires.....	566,772	Sept. 1	66	17	76	1292
Kirkendall, John S. (See Mosher, Charles P., assignor.)						
Kirker, James M., M. Miller, and J. A. Williams, Louisville, Ky. Electric branding-stamp.....	574,203	Dec. 29	3858	920	77	2070

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Kirkland, Reynold J., Grand Rapids, Mich. Spectacle-frame	562,729	June 23	2911	706	75	1978
Kirkman, William H., Berkeley, Cal. Curtain-fixture	559,103	Apr. 23	2787	675	75	576
Kirkpatrick, George W., A. May, and G. W. Stevens, assignors to Bickford & Huffman Company, Macedon, N. Y. Grain-drill	559,336	Apr. 23	3253	786	75	662
Kirkpatrick, H. H. (See Anderson, Lee, assignor.)						
Kirkpatrick, William P., Arrowsmith, Ill. Skein warping machine	555,646	Mar. 3	484	66, 67	74	1181
Kirkwood, John H. (See Fanner and Kirkwood.)						
Kirkwood, Robert G., Wheeling, W. Va. Gas-mixing apparatus	571,196	Nov. 10	1386	323	77	924
Kirlin, Otis M., Fargo, N. D. Vehicle-brake	564,019	July 14	1372	319	76	271
Kirsch-King, Albert W., Chicago, Ill. Metal joint	563,184	June 30	3748	897	75	2159
Kirsch, Richard, Bay Ridge, N. Y. Non-fillable bottle	562,964	June 30	3368	810	75	2087
Kirschbaum, August, Solingen, Germany. Tube	573,602	Dec. 22	2713	644	77	1847
Kirshner, Michael, Philadelphia, Pa. Machine for wrapping soap, &c.	565,082	Aug. 4	208	52, 53	76	656
Kirshner, Samuel, New York, N. Y. Cap	566,326	Aug. 25	2478	607	76	1136
Kirwin, John A., Spring Valley, Minn. Cord-tension attachment	557,831	Apr. 7	551	133	75	103
Kisinger-Ison Company. (See Kisinger, William S., assignor.)						
Kisinger, William S., Bantam, assignor to Kisinger-Ison Company, Cincinnati, Ohio. Trolley-wire hanger	569,338	Oct. 13	1077	256	77	222
Kisinger, William S., Bantam, assignor to Kisinger-Ison Company, Cincinnati, Ohio. Water-sprinkler	572,120	Dec. 1	45	11	77	1287
Kistner, George P., Low Moor, Iowa. Disk cultivator	564,524	July 21	2238	525	76	443
Kistner, Harry U., Selin's Grove, Pa. Saw-set	595,957	Mar. 10	815	195	74	1302
Kitchen, John G. A., Manchester, England. Pneumatic tire	556,923	Mar. 24	2584	608	74	1662
Kitchen, John G. A., Manchester, England. Toy	559,293	Apr. 23	3177	767	75	647
Kite, Ambrose H., assignor of one-half to F. M. Stallard, Stillwater, Okla. Ter. Post-auger	560,297	May 19	1706	388	75	1063
Kitsee, Isidor, Philadelphia, Pa. Distribution of electric currents	557,398	Mar. 31	3418	821	74	1841
Kitsee, Isidor, Philadelphia, Pa. Manufacturing electrodes for secondary batteries	558,992	Apr. 21	2077	502	75	424
Kitsee, Isidor, Philadelphia, Pa. Telegraphy	572,639	Dec. 8	970	233	77	1483
Kitson Machine Company. (See Morton, Albert H., assignor.)						
Kittle, David M., Syracuse, N. Y. Combined salt and pepper box	557,682	Apr. 7	285	68	75	54
Kitts, Willard A., Oswego, N. Y. Pressure-regulator	568,029	Sept. 22	2272	550	76	1746
Kivlin, Thomas. (See Chapman, Kivlin, and Stoddard.)						
Kjellstrom, Mary S., New York, N. Y. Spout attachment for kettles	573,330	Dec. 15	2204	527	77	1733
Klahr, Howard, Orwigsburg, assignor to J. H. Weible, Strausstown, Pa. Thill-coupling	570,131	Oct. 27	2485	588	77	509
Klatte, Otto, Neuwed, Germany. Rolling-mill for producing continuous and endless articles	562,621	June 23	2721	659 661	75	1942
Klatte, Otto, Neuwed, Germany. Rolling-mill	565,996	Aug. 18	1938	469	76	1018
Kläui, Carl, New Haven, Conn. Dividers	567,810	Sept. 15	1879	449	76	1660
Kleckner, William E., Hicksville, Ohio. Axle-nut wrench	570,933	Nov. 10	936	217	77	842
Klée, Ernest F. (See Brenzinger and Klée.)						
Kleemann, Fritz, Berlin, Germany. Evaporating-pan	572,304	Dec. 1	388	92	77	1352
Kleimeier, Theodor, assignor of one-half to A. Davezac, Covington, Ky. Car-coupling	556,990	Mar. 24	2681	632 633	74	1681
Klein, Ignatz, Buda-Pesth, Austria-Hungary. Process of and apparatus for electrolytically forming tubular bodies	555,452	Feb. 25	2946	700 701	74	1103
Klein, John. (See Kall, Christopher W., assignor.)						
Klein, John S., Oil City, Pa. Gas-engine	568,115	Sept. 22	2437	585 586	76	1776
Klein, Joseph, Chicago, Ill. Appliance for heating and pitching casks	566,192	Aug. 18	2255	551	76	1077
Klein, Louis, <i>et al.</i> (See Bush, William H., assignor.)						
Klein, Louis, <i>et al.</i> (See Cooper, Herbert, assignor.)						
Klein, William, assignor to Westfield Plate Company, Thompsonville, Conn. Coffin-handle	559,898	May 12	1019	225	75	888
Kleinberger, Oscar, St. Louis, Mo. Building-brick	556,271	Mar. 10	1410	331	74	1411
Kliemetschek, Adolph. (See Sobotka and Kliemetschek.)						
Klemm, Hermann A., assignor of one-half to C. Engelhardt, New York, N. Y. Overedge sewing-machine	571,125	Nov. 10	1284	298	77	905
Klemm, Hermann A., assignor of one-half to C. Engelhardt, New York, N. Y. Hair-dividing attachment for overedge sewing-machines	571,126	Nov. 10	1286	298	77	905
Klemm, Hermann A., assignor of one-half to C. Engelhardt, New York, N. Y. Overedge sewing-machine	571,322	Nov. 10	1599	379 380	77	965
Klemm, Hermann A., assignor of one-half to C. Engelhardt, New York, N. Y. Hair-dividing attachment for overedge sewing-machines	571,323	Nov. 10	1604	381	77	966
Klenk, John G., Philadelphia, Pa. Centrifugal machine	573,090	Dec. 15	1768	424 425	77	1654
Klettner, Charles R., assignor of one-half to D. O. Laws and T. N. Buchanan, Cincinnati, Ohio. Illuminated and changeable street-car sign	571,726	Nov. 17	2280	547	77	1105
Klimmer, Theodor K., Bernburg, Germany. Making alkaline salts of metallic acids	558,818	Apr. 21	2286		75	463
Klinck, Charles H., <i>et al.</i> (See Reynolds, John H., assignor.)						
Kline, Frank, assignor of one-half to C. Stacey, Arcadia, Ohio. Power-wheel	564,790	July 28	2715	645	76	547
Kline, Frank H. (See Dempster, McDowell, and Kline.)						
Kline, Lewis T., Alpena, Mich. Machine for making excelsior	561,591	June 9	950	227 228	75	1575
Kling, Laurens, New Haven, Conn. Pipe-hanger	566,690	Aug. 25	3109	759	76	1255
Kling, Zachariah K., Laclede, Mo. Wire-fence machine	553,411	Jan. 21	1668	398	74	340
Klingenberg, Emil and J., Commonwealth, Wis. Vise	573,886	Dec. 29	3239	771	77	1939
Klingenberg, John. (See Klingenberg, Emil and J.)						
Klinger, Richard, Gumpoldskirchen, assignor to J. Polke, Vienna, Austria-Hungary. Method of and apparatus for making barrels	553,809	Jan. 28	2351	559	74	483
Klocke, Frank W. (See Flannigan, Edward, assignor.)						
Kloninger, Charles, and J. E. Button, Salt Lake City, Utah. Folding-machine	573,603	Dec. 22	2713	644 645	77	1847
Klopp, John, Hopkins, Minn. Tire-bolter	566,520	Aug. 25	2862	695	76	1209
Klose, Karl A., Richfield, assignor to Klose Wrench Company, Minneapolis, Minn. Pipe-wrench	560,220	May 19	1613	364	75	1052
Klose, Karl A., Richfield, assignor of one-half to N. C. Richardson, Minneapolis, Minn. Bottle	567,103	Sept. 1	658	153	76	1407
Klose, Karl A., Richfield, Minn., assignor of one-half to W. K. Seward, Butte, Mont. Pump	568,909	Oct. 6	325	75	77	62
Klose Wrench Company. (See Klose, Karl A., assignor.)						
Klotz, Eugene, J. Landry, and G. F. Beyroux, Paris, France. Machine for sewing tubular articles	562,084	June 16	1824	442 443 444	75	1757

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Klug, Georg, Hamburg, Germany. Lubricator	574,066	Dec. 29	3570	{ 852 853 }	77	2020
Klumbach, William E. (See Baker, William B., assignor.)						
Knapke, Ignatz, New Pine Creek, Oreg. Fire-escape	552,531	Jan. 7	47	15	74	12
Knapp, Clayton L., New York, N. Y. Burglar-alarm	559,981	May 12	1161	259	75	917
Knapp, Edward J., assignor to C. Umbrecht, trustee, Syracuse, N. Y. Hose-coupling	574,067	Dec. 29	3572	853	77	2020
Knapp, Edward J., assignor to C. Umbrecht, trustee, Syracuse, N. Y. Universal-joint pipe connection	574,249	Dec. 29	3949	939	77	2037
Knapp, Edwin C., Bound Brook, N. J. Steam-engine valve	560,803	May 26	2688	617	75	1262
Knapp, Eugene L., Cooperstown, N. Y. Saw	571,376	Nov. 17	1691	402	77	995
Knapp, Frederick H. (See Cornell and Knapp.)						
Knapp, George W. (See McCartney, John F., assignor.)						
Knapp, Henry J. (See Titus and Knapp.)						
Knapp, Isaac N., Omaha, Nebr., assignor to United Gas Improvement Company, Philadel-phia, Pa. Apparatus for treating illuminating-gas	565,464	Aug. 11	926	221	76	808
Knapp, John H., Pearl City, Ill. Device for holding screws	573,331	Dec. 15	2206	527	77	1733
Knapp, Miles, Des Moines, Iowa. Cabinet-stove	559,033	Apr. 28	2662	{ 648 649 650 }	75	552
Knapp, Peter, St. Wendell, Ind. Straw-stacker	535,379	Feb. 25	2805	{ 650 660 }	74	1077
Knapp, William C., assignor to Model Casket Company, Kalamazoo, Mich. Burial-casket.	569,339	Oct. 13	1079	256	77	222
Knarr, Henrietta. (See Knarr, John A., assignor.)						
Knarr, John A., assignor to H. Knarr, Punxsutawney, Pa. Grave-lining	571,090	Nov. 10	1206	283	77	891
Knauer, Friedrich, Wiesbaden, Germany, assignor to E. B. Meyrowitz, New York, N. Y. Ophthalmoscope	563,717	July 7	809	{ 193 194 195 }	76	151
Knauss, Frank V., Portsmouth, Ohio. Heating-stove	552,911	Jan. 14	796	193	74	162
Knauss, Frank V., Portsmouth, Ohio. Removable mica frame or holder for heating-stoves.	571,597	Nov. 17	2065	495	77	1063
Knauss, Thomas E., and W. K. Liggett, Columbus, Ohio. Mechanism for recording light.	562,534	June 30	3113	754	75	2034
Knauss, Uriah A., Bethlehem, assignor of two-thirds to W. H. Jacobs and J. B. Meixell, South Bethlehem, Pa. Thimble	562,730	June 23	2912	707	75	1978
Knautz, William H., Blue Earth City, Minn. Display device	567,857	Sept. 15	1957	469	76	1675
Knecht, Louis, Philadelphia, Pa. Heddle	567,396	Sept. 8	1185	283	76	1513
Kneedler, Louis, Caledonia, and E. Vorpe, Mount Airy, Iowa. Track-brake	556,723	Mar. 17	2223	518	74	1580
Kneedler, Solomon A., assignor of one-fourth to R. B. Getman, Philadelphia, Pa. Car-fender	560,318	May 19	1796	409	75	1082
Kneeland, Remus A., Benton Harbor, Mich. Refrigerator	566,585	Aug. 25	2952	720	76	1226
Knees, Charles, Oshawa, assignor of one-half to D. W. Alexander, Toronto, Canada. Tan-ning hides	564,086	July 14	1501	351	76	295
Kneisly, Daniel W., Johnsville, Ohio. Buggy-boot fastener	555,005	Aug. 4	75	18	76	631
Knickerbocker, James B., Indianapolis, Ind., assignor to Claybourne Burner Company, Chi-cago, Ill. Natural-gas mixer	561,404	June 2	605	151	75	1485
Knight, Alfred J., Boston, Mass. Leading device	557,832	Apr. 7	552	133	75	104
Knight, Alfred J., assignor of one-half to J. B. Thomas, Boston, Mass. Self-closing nozzle.	565,211	Aug. 4	486	115	76	706
Knight, Charles H., Canton, Ohio. Sawmill set-works	561,592	June 9	954	228	75	1576
Knight, Edward E., San Francisco, Cal. Railway-spike	570,601	Nov. 3	313	77	77	697
Knight, Edward M., New York, N. Y. Filter	557,399	Mar. 31	3420	821	74	1841
Knight, Edward M., New York, N. Y. Filter	569,382	Oct. 13	1146	273	77	235
Knight, George H., assignor to Builders Insulating Tube Company, Lynn, Mass. Paper-tube machine	574,034	Dec. 29	3510	{ 838 839 897 898 899 }	77	2008
Knight, George S., Cleveland, Ohio, assignor to Champion Cash Register Company, Grand Rapids, Mich. Manual sales-recorder and cash-drawer	563,185	June 30	3749	{ 897 898 899 }	75	2159
Knight, George W., assignor to G. Draper & Sons, Hopedale, Mass. Cleaner for spinning-ring travelers	564,087	July 14	1501	351	76	295
Knight, Harry E. (See Hamilton, John R., assignor.)						
Knight, Henry W., Toledo, Ohio. Street-sprinkler	572,640	Dec. 8	972	234	77	1483
Knight, Jesse A., Enfield, R. I. Woven bag	570,174	Oct. 27	2558	608	77	524
Knight, John C., Roselle, N. J. Electric-arc lamp	563,773	July 14	912	{ 217 218 }	76	187
Knight, Jonathan L., assignor of one-half to Crane & Company, Topeka, Kans. Tax-cal-culating machine	571,070	Nov. 10	1160	271	77	883
Knight, Robert D., Vinita, Ind. Ter. Engine	556,272	Mar. 10	1411	331	74	1411
Knight, Thomas G., Rockville Centre, N. Y. Drawer for holding documents, &c.	573,665	Dec. 22	2854	673	77	1873
Knight, Walter H., New Brighton, N. Y. Controlling mechanism for engines	562,305	June 16	2181	530	75	1825
Knight, Walter H., New Brighton, N. Y. Air-motor	568,354	Sept. 29	2847	685	76	1869
Knight, Walter H., Lynn, Mass., and J. W. Darley, Jr., Baltimore, Md. Controller for dynamo-electric machines	554,276	Feb. 11	860	198	74	679
Knight, Walter H., Schenectady, N. Y., assignor to General Electric Company, of New York. Armature-winding	555,216	Feb. 25	2514	593	74	1022
Knight, Walter H., and F. O. Blackwell, Schenectady, N. Y., assignors to Builder's Insu-lating Tube Company, Lynn, Mass. Paper-tube machine	573,004	Dec. 15	1613	388	77	1624
Knight, William H. H., Washington, D. C., assignor of one-third to N. B. Le Fevre, Little's-town, Pa. Spool-cabinet	564,153	July 14	1616	{ 378 379 380 }	76	318
Knippenberg, August, Fehtershausen, Germany. Crochet-hook	572,809	Dec. 8	1277	307	77	1540
Knittel, John B., St. Louis, Mo. Sound-intensifying device for musical instruments	567,480	Sept. 8	1321	318	76	1538
Knobel, Frederick, and J. Bontly, Monticello, Wis. Milk-heating device	555,515	Mar. 3	52	12	74	1140
Knobeloch, John P. (See Rueter, Edward E., assignor.)						
Knoblauch, Anton, Minneapolis, Minn. Street-car fender	562,769	June 23	2972	720	75	1991
Knobloch, Johann F. R., assignor of one-third to M. Bachur and J. Heyn, Hamburg, Ger-many. Power-converter	561,998	June 16	1660	405	75	1728
Knoch, Heinrich P. (See Knoch, Paul, assignor.)						
Knoch, Paul, assignor to H. P. Knoch, Adlershof, Germany. Elastic bed-plate	571,618	Nov. 17	2101	504	77	1070
Knoche, Godfrey, New York, N. Y. Building construction	560,137	May 12	1454	327	75	971
Knoll & Co. (See Gottlieb, Rudolf, assignor.)						
Knollenberg, William E., and T. D. Crawford, Jacksonville, Ill. Press for packing cigar-clippings	564,287	July 21	1854	434	76	373
Knollmann, George F., Evansville, Ind. Electric signaling device	567,984	Sept. 22	2174	523	76	1724
Knopp, Peter M., Kansas City, Mo. Pipe-wrench	557,587	Apr. 7	106	27	75	21
Knopp, Peter M., Kansas City, Mo. Street-car-transfer printing, delivering, and record-ing device	571,485	Nov. 17	1867	{ 446 447 448 }	77	1028
Knotts, Philip S., and P. M. Wolf, Fellowsville, W. Va. Car-coupling	559,584	May 12	922	205	75	870
Knowles, Daniel, Norfolk, Va. Apparatus for distributing oil for calming waves	554,128	Feb. 4	611	138	74	616
Knowles, Edward R., Middletown, Conn., assignor to Schuyler Electric Company, of Con-necticut. Hanger for signal-lanterns	555,320	Feb. 25	2708	635	74	1059

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Knowles, George, Milwaukee, Wis. Electric signal apparatus	572,607	Dec. 8	913	{ 221 222 189 190 191 192 427	{ 77	1471
Knowles, John H., Philadelphia, Pa. Sheet separating and feeding machine	559,804	May 12	787	{ 222 191 192 427	{ 75	845
Knowles, John H., Philadelphia, Pa. Machine for feeding sheets of paper, &c	565,905	Aug. 18	1741	{ 428 429	{ 76	977
Knowles Loom Works. (See Hutchins, George F., assignor.)						
Knowles Loom Works. (See Marco, John M., assignor.)						
Knowles Loom Works. (See Stafford, George W., assignor.)						
Knowles, Nathaniel, Philadelphia, Pa. Spur	554,882	Feb. 18	1911	450	74	895
Knowles, Nathaniel, Philadelphia, Pa. Adjustable partition for boxes, shelving, &c	568,910	Oct. 6	327	75	77	63
Knowlton, Mark D., Rochester, N. Y. Paper-cutting machine	557,400	Mar. 31	3424	822	74	1841
Knowlton, Mark D., Rochester, N. Y. Machine for attaching stays to corners of boxes	557,401	Mar. 31	3426	{ 822 823	{ 74	1842
Knowlton, Mark D., Rochester, N. Y. Friction-movement	564,250	July 21	1781	417	76	361
Knowlton, William E., Portland, Me. Carbon-brush holder for electric machines	558,184	Apr. 14	1198	292	75	244
Knox, David T., Lynn, Mass. Machine for cutting block-soles	558,964	Apr. 28	2545	617	75	529
Knox, George F. (See Sharpneck and Knox.)						
Knox, George F., and E. L. Sharpneck, Chicago, Ill. Refrigerating-machine	559,533	May 5	314	76	75	743
Knox, Orville M., Oneida, N. Y. Wire-reel	555,516	Mar. 3	53	12	74	1140
Knudsen, Conrad, assignor to American Engine Company, Bound Brook, N. J. Valve for steam-engines	572,608	Dec. 8	919	222	77	1472
Knudson, Adolph, St. Paul, Minn. Wave-motor	560,002	May 12	1198	266	75	923
Kny, Richard, Brooklyn, N. Y. Operating-table	555,380	Feb. 25	2807	680	74	1078
Kober, M. (See Allen, William T., Jr., assignor.)						
Koch, Benjamin C., <i>et al.</i> (See Greene, Thomas C., assignor.)						
Koch, Edouard A. (See Lorio, Anthony A., assignor.)						
Koch, Eli, Harrisburg, Pa. Weather-strip	572,810	Dec. 8	1277	308	77	1540
Koch, George P., Boston, Mass. Railway-signal flagstaff	569,024	Oct. 6	512	122	77	101
Koch, Hugo, Leipsic, Germany. Autolithographic press	561,513	June 2	800	195	75	1592
Koch, Jacob A., Denver, Colo. Folding chair	561,669	June 9	1074	259	75	1598
Koch, Jerry H., Lamartine, Pa. Rotary threshier	560,586	May 19	2255	517	75	1165
Koch, Joseph, Cincinnati, Ohio. Screen for gas-burners	557,833	Apr. 7	554	133	75	104
Koch, Max M., Cleveland, Ohio. Stove, range, &c	556,543	Mar. 17	1941	453	74	1525
Koch, Max M., Cleveland, Ohio. Stove or range	560,138	May 12	1455	327	75	971
Koch, Max M., Cleveland, Ohio. Ash pan or receptacle	564,754	July 28	2660	632	76	538
Koch, Max M., Cleveland, Ohio. Ash pan or receptacle	564,755	July 28	2662	632	76	538
Koch, Max M., Cleveland, Ohio. Stove or range	566,773	Sept. 1	67	17	76	1293
Koch, Max M., Cleveland, Ohio. Stove or range	574,336	Dec. 29	4091	971	77	2114
Koch, Max M., and J. Erben, Cleveland, Ohio; said Erben assignor to said Koch. Stove or range	568,769	Oct. 6	100	23, 24	77	21
Koch, Max M., and J. Erben, Cleveland, Ohio; said Erben assignor to said Koch. Stove or range	570,485	Nov. 3	88	20	77	655
Kochendarfer, Sirus E. (See Lewis and Kochendarfer.)						
Kochendarfer, Sirus E., Hollidaysburg, Pa. Ball fountain-pen	554,189	Feb. 4	706	159	74	634
Köcher, Hugo, Vienna, Austria-Hungary. Horseshoe	553,168	Jan. 14	1237	301	74	246
Kock, Henry P., <i>et al.</i> (See Reichardt, Henry C., assignor.)						
Koegel, Herman L., Holyoke, Mass. Paper-cutting machine	559,179	Apr. 28	2962	715	75	608
Koegel, Julius, Des Moines, Iowa. Plant thinner and weeder	565,906	Aug. 18	1764	429	76	983
Koehler, Albert, Baker City, Oreg. Dust-pan	570,026	Oct. 27	2294	544	77	472
Koehler, Albert H., St. Paul, Minn. Whistling bicycle handle-bar	573,666	Dec. 22	2856	673	77	1873
Koehler, Gotthard, San Francisco, Cal. Bottle-stopper	571,949	Nov. 24	2720	640	77	1205
Koehler, John H., Iona, Pa. Sawing-machine	553,226	Jan. 21	1464	352	74	302
Koelbel, Herman M. (See Friedman and Koelbel.)						
Koelzer, Bernard, and J. Thane, Milwaukee, Wis. Horseshoe-calk	568,857	Oct. 6	248	58	77	48
Koerner, Herman T., Buffalo, N. Y. Picture-book	556,467	Mar. 17	1801	418	74	1499
Koerts, Herman H. (See Bergsjö, Martin, assignor.)						
Koester, George C., Paterson, N. J. Tension device for loom-shuttles	558,083	Apr. 14	1035	252	75	212
Koestler, Joseph, Milwaukee, Wis. Adjustable book-shelf	563,279	July 7	78	20	76	16
Koetzner, John J. (See Koetzner, William C. and J. J.)						
Koetzner, William C., Baltimore, Md., and J. J. Koetzner, Washington, D. C. Floor-polishing brush	562,362	June 16	2283	555	75	1843
Koffel, Forest L., assignor to T. S. Culp, Canton, Ohio. Last-standard	566,081	Aug. 18	2065	503	76	1042
Kohart, Frank P. (See Bolles, Archibald L., assignor.)						
Kohen, Frank P. (See Hall, John S., assignor.)						
Kohl, Charles A., Cleveland, Ohio. Wringer-roller	562,542	June 23	2569	624	75	1913
Kohl, Paul, and H. Paulus, St. Louis, Mo. Bottle-labeling machine	573,667	Dec. 22	2857	{ 674 675	{ 77	1874
Kohlenberg, Ferdinand, assignor of one-half to E. E. Howe, Albany, N. Y. Egg-beater	570,668	Nov. 3	470	110	77	726
Kohler, Arthur L., Geneva, N. Y. Baling-press	570,027	Oct. 27	2295	545	77	473
Kohler, Frederick E., Canton, Ohio. Lawn-rake	554,824	Feb. 18	1807	424	74	877
Köhler, Julius T., <i>et al.</i> (See Bröcker, Heinrich, assignor.)						
Köhler, Wilhelm, Fürth, Germany. Torsion pendulum clock	554,700	Feb. 18	1591	{ 374 375	{ 74	834
Köhl, Fritz, Bienne, assignor to E. Flotorn, Madretsch, Switzerland. Watch-stem fastener	566,586	Aug. 25	2952	720	76	1226
Kohlmeier, Ingo E., assignor to G. L. Halberstadt, Copenhagen, Denmark. Driving mechanism for cycles	563,971	July 14	1295	303	76	255
Kohman, William A. (See Potteliger and Kohman.)						
Kohn, David, Paris, France. Bicycle-bell	573,668	Dec. 22	2862	675	77	1874
Kohn, Horace, <i>et al.</i> (See Frick, Henry L., assignor.)						
Kohn, Milton M., Chicago, Ill. Battery connection	556,544	Mar. 17	1942	453	74	1525
Kohne, John M., Toledo, Ohio. Smoke-consumer	570,731	Nov. 3	577	{ 132 133	{ 77	745
Kokocinski, Leon, London, England, assignor to E. P. Carpenter, New York, N. Y. Glass or lens for spectacles or folders	564,894	July 28	2882	691	76	578
Kolb, August R., New York, N. Y. Apparatus for affixing stamps	553,714	Jan. 28	2193	{ 520 521	{ 74	453
Kolfrat, George W., Warren, Pa. Millstone-dress	562,306	June 16	2182	530	75	1825
Kolle, Nicholas, Dubuque, Iowa. Face-plate for burial-caskets	565,282	Aug. 4	624	148	76	731
Koller, John, Newark, N. J. Sectional chute for coal-wagons	556,934	Mar. 24	2585	{ 608 609	{ 74	1662
Koller, Winfield R., Brooklyn, N. Y. Copy-holder	555,249	Feb. 25	2574	604	74	1034

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Kollock, Harry, Philadelphia, Pa. Shoe-lace fastener.....	571,670	Nov. 17	2184	526	77	1086
Koneman, William A., Chicago, Ill. Process of and apparatus for roasting ores.....	560,412	May 19	1961	448 449 449	75	1112
Koneman, William A., Chicago, Ill. Process of and apparatus for recovering gold or silver from refractory ores.....	560,413	May 19	1964	450 451 450	75	1113
Koneman, William A., Chicago, Ill. Metal-refining apparatus.....	560,414	May 19	1968	451 451 451	75	1113
Koneman, William A., Chicago, Ill. Street-sprinkling wagon.....	560,854	May 26	2789	639	75	1282
Koneman, William A., Chicago, Ill. Ore-drying apparatus.....	560,855	May 26	2790	639 640 641	75	1282
Koneman, William A., Chicago, Ill. Ore-scouring apparatus.....	560,856	May 26	2792	641	75	1283
Konrad, Louis, G. P. Fromm, Brooklyn, and H. Kauer, New York, N. Y. Life-saving apparatus for vessels.....	568,982	Oct. 6	463	105	77	88
Konst, Louis, assignor of one-half to J. J. Gerber, Minneapolis, Minn. Filter for gasoline, &c.....	563,041	June 30	3486	838	75	2110
Kooper, Christopher H., Paradise Valley, Nev. Harness.....	567,244	Sept. 8	886	212	76	1461
Kootz, William, Milwaukee, Wis. Machine for cutting leather strips or strings.....	561,999	June 16	1662	406	75	1729
Kootz, William, Milwaukee, Wis. Machine for cutting leather strings.....	562,000	June 16	1664	406	75	1729
Koplin, Abraham B., Hellertown, assignor of one-half to A. Hostetter, Hanover, Pa. Stair-carpet fastener.....	557,586	Apr. 7	105	27	75	21
Korbuly, Josef, Buda-Pesth, Austria-Hungary. Axle-box for railway-carriages.....	558,693	Apr. 21	2079	502	75	424
Kordick, John E., Bridgewater, Iowa. Self-watering trough.....	573,005	Dec. 15	1615	388	77	1624
Kords, William L. (See Lewis, Lyman S., assignor.)						
Körner, Johannes, Mannheim, Germany. Manufacture of plates for electric accumulators.....	571,598	Nov. 17	2065		77	1064
Kornfeld, Joseph, New York, N. Y. Cap.....	563,280	July 7	79	20	76	17
Korsell, Claus F. P. (See Fagersten and Korsell.)						
Kortüm, Wilhelm, assignor to E. W. R. von Bühler, Berlin, Germany. Apparatus for sterilizing milk.....	557,993	Apr. 7	830	197	75	156
Kos, Albert J., et al. (See Winters, John W., assignor.)						
Kosby, Leon, assignor to M. Kosby, San Francisco, Cal. Detachable and interchangeable leaf-binding for books.....	561,670	June 9	1076	260	75	1598
Kosby, Matilda. (See Kosby, Leon, assignor.)						
Kosch, Rudolph. (See Kundtz and Kosch.)						
Köster, Carl, Cologne, Germany. Composition of matter for manufacturing artificial veneers.....	572,016	Nov. 24	2813		77	1224
Köster, Ernest W., Höchst-on-the-Main, Germany. Valve-gear for force-pumps and suction-pumps.....	553,961	Feb. 4	292	65	74	558
Köster, Ernest W., Höchst-on-the-Main, Germany. Valve for air-pumps.....	567,600	Sept. 15	1519	365	76	1590
Koster, John. (See Kraus, Robert W. J., assignor.)						
Kosz, Franz. (See Petrus, Koszl, and Hegenscheidt.)						
Kotva, Vaclav. (See Schneberger and Kotva.)						
Kotzlovsky, Julius, Philadelphia, Pa. Shoe-machine.....	574,337	Dec. 29	4093	972 973	77	2115
Kraatz, Ernest, New York, N. Y. Artificial-fur-tail trimming.....	557,683	Apr. 7	287	69	75	54
Krabol, Olaus O. (See Bostad and Krabol.)						
Kraemer, Frank, and M. Krüger, Chicago, Ill. Electric heater or rheostat.....	554,632	Feb. 11	1483	347	74	796
Kraemer, Thomas. (See Diehl and Kraemer.)						
Kraft, Augustus C. H. (See Sweetland and Kraft.)						
Kraft, Charles H., et al. (See Burton, Charles, assignor.)						
Kraft, Georg W., Dresden, Germany. Furnace.....	566,774	Sept. 1	68	18	76	1293
Kraft, Henry P. (See Schrader and Kraft.)						
Krah, Armin, Berlin, Germany. Letter-file.....	566,717	Aug. 25	3159	773	76	1263
Kraker, Joseph, assignor to C. J. Wagner, San Francisco, Cal. Pencil-sharpener and point-guard.....	557,402	Mar. 31	3435	823	74	1843
Kramer, Charles L., Leavenworth, Kans. Button-cleaner and garment-protector.....	556,935	Mar. 24	2587	609	74	1662
Kramer, George W., Racine, Wis. Apparatus for weighing and conveying grain.....	571,571	Nov. 17	2023	481 482	77	1056
Kramer, Ludwig. (See Rosenthal and Kramer.)						
Kramer, Samuel R., Perkase, Pa. Printing-press.....	564,626	July 28	2439	574	76	497
Kramer, William R., Coldwater, Mich. Churn.....	569,925	Oct. 20	2114	503	77	426
Kranich & Bach. (See Kranich, Hellmuth, assignor.)						
Kranich, Hellmuth, assignor to Kranich & Bach, New York, N. Y. Pianoforte.....	565,860	Aug. 11	1673	410	76	948
Krantz, Alfred J., assignor of one-half to G. Smith, Worcester, Mass. Harness-tug.....	560,724	May 26	2550	586	75	1236
Kranzer, Anton, assignor of one-half to F. Dydrick, Lidgerwood, N. D. Tube-cutter.....	560,099	May 12	1392	313	75	959
Krasel, Paul R., Montreal, Canada. Ash-sifter.....	570,132	Oct. 27	2485	589	77	509
Krasky, Henry G., San Francisco, Cal. Folding bed.....	571,529	Nov. 17	1950	466	77	1044
Kratzer, Edwin, Thompson Falls, Mont. Apparatus for reducing antimony ores.....	563,234	June 30	3834	919	75	2175
Kraus, Albert L., Peabody, Mass. Propeller.....	574,096	Dec. 29	3628	867	77	2030
Kraus, Albert L., Peabody, Mass. Combined fender and brake mechanism.....	574,097	Dec. 29	3629	867	77	2030
Kraus, Alex. (See Drumm, Kraus, and Goedjen.)						
Kraus, Gustav, assignor to Berliner, Strauss & Denzer, New York, N. Y. Necktie.....	565,283	Aug. 4	625	148	76	731
Kraus, Herman T. C., Brooklyn, N. Y. Process of and apparatus for extracting oil.....	569,208	Oct. 13	846	199 200	77	177
Kraus, Ignatz G., Berlin, Germany. Curling-comb.....	573,887	Dec. 29	3240	771	77	1960
Kraus, Otto, New York, N. Y., assignor to R. H. Wolf & Company, Limited, of New York. Self-oiling hub for bicycles.....	553,621	Jan. 28	2034	481	74	424
Kraus, Robert W. J., New York, assignor of one-half to J. Koster, Brooklyn, N. Y. Alarm.....	562,731	June 23	2913	707	75	1978
Krause, George A., et al. (See Schroyer, Stephen, assignor.)						
Krause, Roswell F., Chicago, assignor to A. F. Wert, Naperville, Ill. Grass-carrier for lawn-mowers.....	558,731	Apr. 21	2138	515	75	435
Krauss, Charles H., Johnstown, Pa., assignor to Johnson Company, Cleveland, Ohio. Railway-switch.....	555,171	Feb. 25	2437	577	74	1009
Krauss, Theodore. (See Anderson and Krauss.)						
Krauss, William. (See Minor and Krauss.)						
Krauth, Ferdinand E., Hebron, N. D. Self-setting animal-trap.....	572,811	Dec. 8	1279	308	77	1540
Krebs, George L. (See Solter, John, assignor.)						
Krebs, Gustav, Halle-on-the-Saale, and A. Weil, Steinheim, Germany. Roofing-tile.....	558,395	Apr. 14	1556	379	75	310
Krebs, Gustav, Halle-on-the-Saale, and A. Weil, Steinheim, Germany. Roofing-tile machine.....	573,604	Dec. 22	2715	645	77	1847
Krecke, Friedrich, and I. Rosenberg, assignors to Kalle & Co., Biebrich, Germany. Amidonaphtholdisulfo-acid K.....	563,382	July 7	250		76	51

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Krecke, Friedrich, and I. Rosenberg, assignors to Kalle & Co., Biebrich, Germany. Azo dye	563,383	July 7	252	-----	76	51
Krecke, Friedrich, and I. Rosenberg, assignors to Kalle & Co., Biebrich, Germany. Dis-azo dye	563,384	July 7	252	-----	76	51
Krecke, Friedrich, and I. Rosenberg, assignors to Kalle & Co., Biebrich, Germany. Blue tetrazo dye	563,385	July 7	253	-----	76	51
Krecke, Friedrich, and I. Rosenberg, assignors to Kalle & Co., Biebrich, Germany. Greenish-blue tetrazo dye	563,386	July 7	253	-----	76	51
Kregel, Louis G., St. Louis, Mo. Coffin-fastener	562,622	June 23	2725	661	75	1942
Kregel, Louis G., assignor, by mesne assignments, to H. C. Achenbach, St. Louis, Mo. Candle-holder	568,314	Sept. 22	2772	667	76	1840
Kreitlein, A. G. (See McKenzie, Thomas W., assignor.)						
Kreinberg, Friedrich W., Elsey, assignor to O. Hering, Berlin, Germany. Brush for dynamo-electric machines and motors	555,381	Feb. 25	2809	660	74	1078
Kremer, John C., Wadsworth, Ohio. Wire-fastener	571,271	Nov. 10	1517	358	77	949
Kremer, Michael J. (See Brammer and Kremer.)						
Kremers, Albert. (See Urban, Leopold C., assignor.)						
Kress, August, West Bend, Wis. Purse	573,332	Dec. 15	2206	527	77	1733
Kress, Fredrick A., Cleveland, Ohio, assignor to Mechanical Rubber Company, New York, N. Y. Machine for making fabric for vehicle-tires	561,114	June 2	62	17	75	1379
Kretschmar, Albert G., Duluth, Minn. Bow for stringed instruments	566,718	Aug. 25	3160	773	76	1963
Kretschmer, Frederick G., New York, N. Y., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Metal-screw machine	568,484	Sept. 29	3055	735	76	1907
Kreutziger, Charles, Waterloo, Canada. Washing-machine	559,855	May 12	924	205	75	870
Krewson, Charles, Philadelphia, Pa. Button-turning lathe	566,327	Aug. 25	2479	607	76	1137
Kribs, Anthony, assignor of one-half to F. H. Palmer, Brooklyn, N. Y. Manufacture of glass jars	564,825	July 28	2771	659	76	557
Krick, Elijah, Wolfcave, Ohio. Check-row attachment for corn-planters	569,209	Oct. 13	849	200	77	178
Krickl, Philip M., Chicago, Ill. Sash-lifter	561,896	June 9	1491	359	75	1676
Krider, Amis, Chicago Heights, Ill. Carriage-top connection	573,006	Dec. 15	1616	388	77	1624
Krider, Amis, Chicago Heights, Ill. Carriage-top connection	573,007	Dec. 15	1617	389	77	1625
Krider, Samuel. (See Courath and Krider.)						
Kridler, Daniel, Wilkes-Barre, Pa. Grate-bar	558,185	Apr. 14	1199	292	75	244
Krieger, Andrew, Indianapolis, Ind. Detachable saw-tooth	555,517	Mar. 3	54	12	74	1140
Krieger, Andrew, Indianapolis, Ind. Inserted saw-tooth	555,518	Mar. 3	56	12	74	1141
Krieger, Andrew, Indianapolis, Ind. Saw	561,115	June 2	64	17	75	1379
Krieger, Edward C. (See Lamprecht and Krieger.)						
Krieger, Frederic C., West Bend, Wis. Horse-collar and pad	565,757	Aug. 11	1487	363	76	912
Krieger, Gottfried F., Kiel, Germany. Electric igniting device for gas-burners	571,769	Nov. 24	2380	568	77	1142
Kries, John F., Charleston, W. Va. Non-refillable bottle	571,047	Nov. 10	1123	262	77	876
Krigbaum, Giles D. A., St. Louis, Mo. Mosquito-bar attachment for bedsteads	567,481	Sept. 8	1321	318	76	1538
Krimmel, Albert, Detroit, Mich. Bung-hole protector and funnel combined	573,333	Dec. 15	2207	528	77	1733
Kriner, John H., Golden Rod, Pa. Oil-catching device	572,641	Dec. 8	974	235	77	1483
Kritch, Jacob, St. Paul, Minn. Furnace	555,172	Feb. 25	2438	577	74	1009
Kritcher, Davis, and C. Weinstein, Worcester, Mass. Combination-tool for pipe-fitters	570,934	Nov. 10	937	218	77	842
Kroegher, Wilhelm C., Allegheny, Pa. Welding-machine	568,911	Oct. 6	328	76	77	63
Kroehnke, Peter J., Thiensville, Wis. Bridge-guard	561,671	June 9	1078	260	75	1599
Krohn, Gustave A., assignor of one-fourth to C. Melvin and D. McLellan, Gold Gulch, Cal. Tire-tightener	567,397	Sept. 8	1187	284	76	1513
Kroll, Otto, Berlin, Germany. Making incandescent bodies for gas-burners	564,430	July 21	2098	-----	76	417
Kromer, William R., Ashland, Wis. Pencil-holder	559,719	May 5	617	148	75	800
Kroninger, Daniel B. (See Kroninger, Edward N. and D. B.)						
Kroninger, Edward N. and D. B., Allentown, Pa. Plant for heating greenhouses	564,756	July 28	2663	633	76	538
Kroseberg, Rudolf, and E. Straub, Berlin, Germany, assignors to said Kroseberg. Method of and apparatus for regulating temperature of electrolytes	563,972	July 14	1296	303	76	256
Krotz, Alvaro S. (See Allen and Krotz.)						
Krotz, Alvaro S., et al. (See Allen, William P., assignor.)						
Krotz, Alvaro S., assignor of one-half to O. S. and O. W. Kelly, Springfield, Ohio. Electric-current regulator	559,585	May 5	396	95, 96	75	760
Krotz, Alvaro S., Springfield, Ohio, and W. P. Allen, Chicago, Ill., assignors of one-third to O. S. Kelly, Springfield, Ohio. Underground system for electric railways	558,283	Apr. 14	1367	333	75	275
Krotz, Alvaro S., Springfield, Ohio, and W. P. Allen, Chicago, Ill., assignors of one-third to O. S. Kelly, Springfield, Ohio. Conduit or subway for electric railways	558,284	Apr. 14	1369	334	75	276
Krotz, Alvaro S., Springfield, Ohio, and W. P. Allen, Chicago, Ill., assignors of one-third to O. S. Kelly, Springfield, Ohio. Electrical contact device for subways or conduits	559,586	May 5	398	96	75	760
Krotzinger, Victor, New York, N. Y. Folding wagon	561,796	June 9	1320	316	75	1644
Krouse, John F. (See Goldstein, Dawson, and Krouse.)						
Kroyer, Mayes & Jackson. (See Miller, Samuel M., assignor.)						
Kruedelbach, Frederick, Winfield, N. Y. Receptacle for sporting and athletic outfits	563,493	July 7	439	101	76	84
Krueckel, Andrew, et al. (See Gottshall, Martin, assignor.)						
Krueger, George, Albany, N. Y. Circular extension-table	572,172	Dec. 1	137	32, 33	77	1303
Kruger, Max. (See Kraemer and Kruger.)						
Krumholz, Charles. (See Day and Krumholz.)						
Krumm, Alexander W., Cincinnati, Ohio. Atomizer	560,507	May 19	2121	485	75	1141
Kramscheid, Peter, Boston, Mass. Fabric for tires	573,008	Dec. 15	1618	389	77	1625
Krupke, Herman A., Paynesville, Minn. Car-brake	555,011	Feb. 18	2142	510	74	936
Krupke, Herman A., Paynesville, Minn. Horse-power	560,139	May 12	1457	328	75	972
Krupp, Frank, New Orleans, La. Shutter-lock	554,701	Feb. 18	1594	375	74	835
Krupp Grusonwerk, Fried. (See Ebbs, Hermann, assignor.)						
Krupp Grusonwerk, Fried. (See Lubowski, Hermann, assignor.)						
Kruse, Frederick R., Piermont, N. Y. Centerboard for yachts or other vessels	555,250	Feb. 25	2575	604	74	1034
Kruse, Frederick W., and C. Holstein, Millard, Nebr. Brake	571,004	Nov. 10	1052	245	77	863
Kruse, John, Waterbury, Conn. Photographic shutter	561,672	June 9	1080	260	75	1599
Kruse, Theodore, Indianapolis, Ind. Tank flush-valve	565,465	Aug. 11	927	221	76	808
Krusinski, Ferdinand, Rockdale, Tex. Rail-joint	568,355	Sept. 29	2849	685	76	1269
Krusinski, Ferdinand, Rockdale, Tex. Car-coupling	568,356	Sept. 29	2850	685	76	1269
Kryger, Henry H., Minneapolis, Minn. Electric snow-plow	556,315	Mar. 10	1515	352	74	1429
Kryszat, Albert A., Aschersleben, Germany. Rotary engine	562,405	June 23	2347	572	75	1872
Kryszat, Albert A., Aschersleben, Germany. Rotary engine	571,377	Nov. 17	1691	402	77	996

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Kubach, Charles, Abilene, Kans. Automatic valve for water-tanks	562,543	June 23	2570	624	75	1913
Kuchler & Buff. (See Welter, Gustav A., assignor.)						
Kuechel, William L. T., assignor to George L. Thompson Manufacturing Company, Chicago, Ill. Crimping-tongs	563,494	July 7	439	102	76	84
Kuegler, George, Jersey City, N. J. Cooking utensil	559,899	May 12	1020	225 226	75	888
Kuehl, Charles W., Merrill, Wis. Rake	563,281	July 7	79	20	76	17
Kuenneth, Charles. (See Kuenneth, Schreier, and Kuenneth.)						
Kuenneth, Eugene C., G. Schreier, and C. Kuenneth, Mount Olive, Ill. Extension electric-lamp holder	566,193	Aug. 18	2256	552	76	1078
Kuepfert, Albert J., and R. Stadler, St. Louis, Mo. Thill-coupling	554,449	Feb. 11	1164	271	74	737
Kuess, Victor J., Bordeaux, France. Process of and apparatus for distilling fatty substances	568,258	Sept. 22	2682	642 643	76	1822
Kufs, Richard, Brooklyn, N. Y. Attachment for bottle-washing machines	560,904	May 26	2881	661	75	1300
Kuhfahl, Herman, assignor of three-fourths to W. & W. A. Lang, New York, N. Y. Gas-burner	571,902	Nov. 24	2627	623	77	1188
Kublewind, Cornelius, assignor of three-fourths to E. G. Waters, J. C. Calisch, and L. R. Isenthal, Pittsburg, Pa. Glass-press	561,056	May 26	3122	720 721	75	1345
Kuhlmann, Adolph F., La Crosse, Wis. Car-coupling	567,902	Sept. 15	2017	484	76	1687
Kuhlmann, John F., Hammond, Ind. Spittoon-holder	562,900	June 30	3233	781	75	2057
Kuhn, August, Metzingen, Germany. Basket	565,006	Aug. 4	76	18	76	632
Kuhn, Edmond. (See Jennings and Kuhn.)						
Kuhn, George E., et al. (See Crawford, William W., assignor.)						
Kuhn, John P., Alton, Ill. Shading-pen	567,482	Sept. 8	1323	319	76	1538
Kuhn, W. D. (See Caesar, Peter J., assignor.)						
Kuichling, Emil, Rochester, and E. L. Rowe, assignors to Rensselaer Manufacturing Company, Troy, N. Y. Check-valve	556,636	Mar. 17	2081	487	74	1551
Kulage, Joseph J., St. Louis, Mo. Gathering and loading apparatus	568,770	Oct. 6	102	24, 25	77	22
Kulage, Joseph J., St. Louis, Mo. Wheeled vehicle	573,334	Dec. 15	2208	528 529	77	1734
Kulage, Otto. (See Langer, Gotthold, assignor.)						
Kulcar, Josef, Concord, Mass. Lamp-chimney protector	573,155	Dec. 15	1876	452	77	1674
Kullberg, John, and C. Brunzell; said Kullberg assignor to C. A. Brunzell, Minneapolis, Minn. Cloth-measuring machine	573,335	Dec. 15	2214	529	77	1734
Kumler, Hervey R., Etiwanda, Cal. Box-nailing machine	574,365	Dec. 29	4137	982 983	77	2122
Kunau, Ernest, Teed's Grove, Iowa. Draft appliance for vehicles	553,680	Jan. 28	2134	505	74	441
Kundtz, Theodor, Cleveland, Ohio. Wheel-rim	563,774	July 14	914	218	76	187
Kundtz, Theodor, and R. Kosch, Cleveland, Ohio; said Kosch assignor to said Kundtz. Cabinet for sewing-machines	565,623	Aug. 11	1236	298	76	865
Kunkel, August, Johnstown, Pa. Apparatus for mottling soap	563,186	June 30	3752	898	75	2160
Kunowski, Albrecht von, Berlin, Germany. Keyboard for type-writing machines	556,422	Mar. 17	1719	400	74	1453
Kunselman, William, Pierre, S. D. Decoy	554,368	Feb. 11	1015	235	74	708
Kunstwebers, Claviez & Co., Gesellschaft mit Beschränkter Haftung. (See Claviez, Emil, assignor.)						
Kunz, Alfred R., Brooklyn, N. Y. Bracket	573,985	Dec. 29	3428	821	77	1993
Kunz, John, Middletown, Ohio. Railway-frog	554,702	Feb. 18	1596	375 376	74	835
Kunze, Hermann, Hill End, and S. Brown, Mosman, New South Wales. Spring bolt or lock and key	567,143	Sept. 8	730	171	76	1432
Kunze, Johann E. H., Leipsic, Germany. Folding desk	558,285	Apr. 14	1370	334	75	277
Künzel, Charles A., Jr., New York, N. Y. Ice-making machine	553,681	Jan. 28	2135	506	74	442
Künzel, Charles A., Jr., Hoboken, N. J. Filter	561,673	June 9	1084	261	75	1600
Künzel, Charles A., Jr., Hoboken, N. J. Gas-engine	571,447	Nov. 17	1803	431	77	1017
Knpperschmidt, R. (See McDonald, William R., assignor.)						
Kupsch, Hermann, Chicago, Ill. Open die-head	564,700	July 28	2551	603 604	76	520
Kuriger, Henry J., Minneapolis, Minn. Log-skidding device	561,674	June 9	1086	261	75	1600
Kursheedt, Alphonse H., New York, N. Y. Ornamental fabric	558,186	Apr. 14	1201	293	75	244
Kursheedt Manufacturing Company. (See Groebli, Joseph A., assignor.)						
Kursheedt Manufacturing Company. (See Waitzfelder, Albert S., assignor.)						
Kürten, Hubert C., Aix-la-Chapelle, Germany. Apparatus for disinfecting, &c.	565,758	Aug. 11	1488	364	76	913
Kurtis, Adam and G. A., Erie, Pa. Clothes-line fastener	565,212	Aug. 4	487	116	76	707
Kurtis, George A. (See Kurtis, Adam and G. A.)						
Kurtz, Henry W., New York, N. Y. Christmas-tree stand	573,225	Dec. 15	2005	481	77	1698
Kurtz, John, South Bethlehem, Pa. Roofing-tongs	566,719	Aug. 25	3161	774	76	1263
Kurz, August W., assignor of one-half to J. P. Dowd, Cleveland, Ohio. Rotary blower, exhauster, or pump	571,770	Nov. 24	2381	569	77	1142
Kurz, George. (See Fletcher, Dalton, assignor.)						
Kusel, Isidor J., St. Louis, Mo. Telephone-transmitter	552,689	Jan. 7	333	88	74	65
Kutz, John M., et al. (See Schmick, Henry J., assignor.)						
Kutzner, Calvin, Cairo, Ohio. Fence-post	557,834	Apr. 7	555	133	75	104
Kuykendall, Blanche L. (See Moore, Joseph R., assignor.)						
Kyle, Barton W., Arlington, Nebr. Rotary plow	563,973	July 14	1297	303	76	256
Kyle, Robert J., New York, N. Y. Button	567,834	Sept. 15	1919	460	76	1667
Kyle, Robert J., New York, N. Y. Button	568,357	Sept. 29	2851	685	76	1870
L. C. White Company. (See Ludington, Frank J., assignor.)						
L. M. Rumsey Manufacturing Company. (See Israel, Earl H., assignor.)						
L. Wolf Manufacturing Company. (See Clifford, John, assignor.)						
L. Wolf Manufacturing Company. (See Wolf, John F., assignor.)						
L'Enfant, Charles, New York, N. Y. Book-cover	559,727	May 5	631	151	75	803
L'Enfant, Charles, New York, N. Y. Cover for books	562,228	June 16	2052	496	75	1801
L'Enfant, Charles, Philadelphia, Pa., assignor to C. L'Enfant, New York, N. Y. Cover for books	553,530	Jan. 28	1878	444	74	396
L'Enfant, Coelestine. (See L'Enfant, Charles, assignor.)						
L'Heureux, François, Dracut, and G. A. Faneuf, Lowell, Mass. Device for propelling wheeled vehicles	566,579	Aug. 25	2943	718	76	1324
L'Hommédieu, Joseph S., Great Neck, N. Y. Mucilage-bottle	570,030	Oct. 27	2299	546	77	474
La Bonté, Adolphus, Brockton, assignor, by mesne assignments, to G. H. P. Flagg, Boston, Mass. Welt-turning and in-seam-trimming machine	558,296	Apr. 14	1371	334 335	75	277
La Flare, Myron J., Chicago, Ill. Door for refrigerator-cars	562,001	June 16	1665	406	75	1729
La Fleur, Barthélemy, Hilgard, Oreg. Saw-sawage	553,004	Jan. 14	949	229	74	192
La Fountain, Maxim, Jr., Springfield, Vt. Cloth-reel	565,466	Aug. 11	929	221 222	76	802

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La Fountain, Maxim, Jr., Springfield, Vt. Adjustable means for instrumentalities in cloth-finish machines.....	573,669	Dec. 22	2863	{ 675 676 }	77	1875
La France, Adella, executrix. (See La France, Truckson S.)						
La France, Truckson S., deceased, Elmira, N. Y.; A. La France executrix. Pump-valve.....	556,507	Mar. 17	1880	438	74	1514
La Pierre, Frank H., East Orange, N. J. Die and die-holder.....	556,060	Mar. 10	1021	244	74	1339
La Prease, Charles, Syracuse, N. Y. Photographic child's support.....	557,132	Mar. 31	2931	702	74	1753
La Riviere, Charles C., Fort Adams, R. I. Support for cuspidors or waste-baskets.....	567,275	Sept. 8	959	228	76	1472
La Rose, Eugene E., Providence, R. I. Mechanism for operating car-brakes.....	558,588	Apr. 21	1893	459	75	390
La Rose, Eugene E., Providence, R. I. Car-brake.....	561,328	June 2	464	{ 115 116 }	75	1460
La Rue, George W. (See Johnson, Albert W., assignor.)						
La Rue, George W., New York, N. Y. Tension device for sewing-machines.....	553,347	Jan. 21	1564	373	74	320
La Rue, Lafayette M., assignor of one-tenth to J. Kennedy and H. S. Wilhelm, Paris, Ky. Bottle.....	567,717	Sept. 15	1713	411	76	1628
La Société Industrielle des Téléphones. (See Ader, Clement, assignor.)						
La Société des Moteurs et Voitures Automobiles Système Filtz. (See Filtz, Georges, assignor.)						
La Vigne, George W. (See Garl, Manious, assignor.)						
Laar, Andries F. S. van de, Amsterdam, Netherlands. Rotary engine.....	571,727	Nov. 17	2282	{ 547 548 }	77	1105
Laass, Emil. (See Tomlinson, Charles E., assignor.)						
Laass, John J., Syracuse, N. Y. Wheel-hub.....	568,912	Oct. 6	329	76	77	63
Lacavalerie, Sebastien, Carácas, Venezuela. Bottle-stopper.....	563,974	July 14	1298	303	76	256
Lacavalerie, Sebastien, Carácas, Venezuela. Steam-generator.....	565,907	Aug. 18	1765	{ 429 430 }	76	984
Lachance, Joseph, Little Falls, Minn. Washing-machine.....	571,671	Nov. 17	2185	526	77	1086
Lachmann, Eduard, Hamburg, Germany. Electric railway.....	563,282	July 7	81	21	76	17
Lachman, Maurice, assignor to Automatic Castor and Wheel Company, Limited, London, England. Furniture caster.....	571,167	Nov. 10	1342	313	77	916
Lack, Fred S., et al. (See Rollandet and Gray, assignors.)						
Lackawanna Wheel Company. (See Holmes, Frank C., assignor.)						
Lackum, Peter von, Omaha, Nebr. Tail-guard for horses.....	553,810	Jan. 28	2353	560	74	483
Lacomme, Jean M. A. (See Tilyow and Lacomme.)						
Laconia Car Company. (See Frye, Charles E., assignor.)						
Lacroix, Joseph, Fall River, Mass. Rubber boot.....	556,059	Mar. 10	1020	244	74	1338
Lacroix, Joseph, Fall River, Mass., assignor of one-half to F. E. Searl, Providence, R. I. Attachment for baking-pans.....	559,720	May 5	618	148	75	800
Lacy, George W., Kingston, N. Y. Car-truck.....	563,187	June 30	3755	899	75	2161
Lacy, George W., Kingston, N. Y. Car-truck.....	563,188	June 30	3759	899	75	2162
Lacy, Howard. (See Johnson, Slacke, and Lacy.)						
Ladd, Carlton T., Buffalo, N. Y. Guide for tackle of grain-elevators.....	564,701	July 28	2553	604	76	520
Ladd, Hermon W., Boston, Mass. Manufacturing pneumatic tires.....	553,003	Jan. 14	948	229	74	191
Ladd, Sherman W., Somerville, Mass. Lasting-machine.....	564,931	July 28	2957	{ 704 705 }	76	592
Ladd, Story B., assignor of one-half to G. B. Chittenden, Washington, D. C. Apparatus for leaching ores.....	567,144	Sept. 8	731	171	76	1432
Ladd, Wyllys C., Bristol, Conn. Chime.....	559,805	May 12	817	192	75	851
Lafferty, Frank W., Philadelphia, Pa. Car-fender.....	555,382	Feb. 25	2809	660	74	1078
Laferré, Oliver E., assignor to Woonsocket Machine and Press Company, Woonsocket, R. I. Bobbin support or holder.....	567,647	Sept. 15	1601	385	76	1606
Lafountain, Frank, Enosburg, Vt. Shuttle-threader.....	562,002	June 16	1666	406	73	1730
Lafontaine, Joseph A., Montreal, Canada. Feed mechanism for cork-cutting machines.....	559,391	May 5	72	16	75	694
Lagabbe, Charles E. de. (See Sautter, Savatier, and Lagabbe.)						
Laganke, Charles F., and L. M. Marbach, Cleveland, Ohio. Razor-sharpening machine.....	559,456	May 5	190	41, 42	75	718
Lagelouze, Gaston, assignor of one-half to R. Fabien, New York, N. Y. Bake-pan.....	573,986	Dec. 29	3429	822	77	1993
Lagerquist, Gust. (See Forsberg, Peter, assignor.)						
Lagrelle, Alexandre D., Louvres, France. Regulator for electric heaters.....	573,670	Dec. 22	2865	676	77	1875
Lague, James, Hot Springs, Ark. Kicking-strap.....	558,499	Apr. 21	1749	424	75	364
Lahan, Edward J., Quincy, Ill. Running-gear for vehicles.....	564,088	July 14	1502	352	76	295
Laidlaw, W. A., et al. (See Buchtel, Joseph, assignor.)						
Lail, Andrew B. (See Hance, James A., assignor.)						
Laing, John H., Pittsburg, Pa. Automatic power-controller for elevators.....	562,331	June 16	2222	541	75	1833
Laing, Louis F., Toronto, Canada. Printer's galley.....	563,495	July 7	441	102	76	85
Laird, John, assignor of two-thirds to Hope Street Factory, Limited, Belfast, Ireland. Buttonhole-sewing machine.....	562,003	June 16	1668	407	75	1730
Laird, John E. B., Elgin, Tex. Knee-pad.....	572,642	Dec. 8	975	235	77	1484
Laird, Robert H., Buffalo, N. Y. Hot-water heater.....	560,268	May 19	1707	388	75	1068
Lake, Ella C., et al. (See Littleworth, Malcolm C., assignor.)						
Lake, Judson N., and J. Clark, Elmira, N. Y. Forming-machine.....	555,575	Mar. 3	154	37	74	1158
Lake, Robert G., Corona, N. Y. Sign letter or character.....	570,313	Oct. 27	2860	678	77	578
Lake, Simon, Atlantic Highlands, N. J. Submarine locomotive.....	557,835	Apr. 7	556	134	75	105
Lake, Vincent F., assignor to J. H. Borton, trustee, Pleasantville, N. J. Inking mechanism for type-writing machines.....	565,357	Aug. 4	740	177	76	754
Lalancé & Grosjean Manufacturing Company. (See Ball and Vacheron, assignors.)						
Lalancé & Grosjean Manufacturing Company. (See Vacheron, Louis E., assignor.)						
Lalor, John C., et al. (See Robertson, Burton S., assignor.)						
Lamar, Alfrede C., St. Paul, Minn. Flax-puller.....	566,403	Aug. 25	2630	{ 642 643 }	76	1165
Lamarche, John V., et al. (See Rider, Herbert E., assignor.)						
Lamb, Christopher K., San Francisco, Cal. Filter.....	561,675	June 9	1087	{ 261 262 }	75	1600
Lamb, Edward L., East Chicago, Ind., assignor to Chicago Pressed Steel Company, Chicago, Ill. Metallic cross-tie for railways.....	565,683	Aug. 11	1351	328	76	888
Lamb, Edward T. (See Williams, Frank A., assignor.)						
Lamb, George B., assignor to Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Nut-blank machine.....	560,857	May 26	2793	641	75	1283
Lamb, James G., Wellington, New Zealand. Evaporative refrigerator.....	568,259	Sept. 22	2684	643	76	1822
Lamb, Joseph, New York, N. Y. Lead for glazed windows.....	563,189	June 30	3761	{ 899 900 }	75	2162
Lamb Manufacturing Company. (See Carryl, Henry D., assignor.)						
Lamb Manufacturing Company. (See Hadley, George W., assignor.)						
Lamb Manufacturing Company. (See Perkins, Albert, assignor.)						
Lamb, Mary C., et al. (See Reid, Jennie, assignor.)						
Lambert, Albert S., assignor to D. Elmer, Bridgeton, N. J. Closure.....	558,878	Apr. 21	2390	583	75	483

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Lambert, Albert S., and E. Hoffman, assignors to D. Elmer, Bridgeton, N. J. Closure.....	563,667	July 7	730	172	76	137
Lambert, Albert S., and E. Hoffman, assignors, by mesne assignments, to Practical Closure Company, Bridgeton, N. J. Can-cover.....	568,485	Sept. 29	3053	736	76	1908
Lambert, Albert S., and E. Hoffman, assignors, by mesne assignments, to Practical Closure Company, Bridgeton, N. J. Closure.....	568,486	Sept. 29	3059	736	76	1908
Lambert, Albert S., and E. Hoffman, assignors, by mesne assignments, to Practical Closure Company, Bridgeton, N. J. Closure.....	568,771	Oct. 6	105	25	77	22
Lambert, Albert S., and E. Hoffman, assignors, by mesne assignments, to Practical Closure Company, Bridgeton, N. J. Tool for finishing glass bottles, &c.....	568,772	Oct. 6	106	25	77	22
Lambert, Albert S., and E. Hoffman, assignors, by mesne assignments, to Practical Closure Company, Bridgeton, N. J. Closure.....	568,773	Oct. 6	108	25	77	23
Lambert, Albert S., and E. Hoffman, assignors, by mesne assignments, to Practical Closure Company, Bridgeton, N. J. Closure.....	568,774	Oct. 6	109	26	77	23
Lambert, Charles F., Haverhill, Mass. Heel-compressing machine.....	565,467	Aug. 11	930	222	76	808
Lambert, Emile L. C., Boulogne, France. Developing-tray.....	573,888	Dec. 29	3241	771	77	1960
Lambert, Frank. (See Aronson, Saul, assignor.)						
Lambert, Frank. (See Aronson and Lambert.)						
Lambert, Frank, assignor of one-half to J. W. Kay, Brooklyn, N. Y. Meter.....	569,137	Oct. 6	721	169 170	77	137
Lambert, Frank, and S. Aronson, Brooklyn, N. Y. Voting-machine.....	562,836	June 30	3116	754 755	75	2034
Lambert, Frank, and S. Aronson, Brooklyn, N. Y. Recording mechanism for voting-machines.....	566,459	Aug. 25	2767	673	76	1190
Lambert, Henry M., assignor of one-half to M. W. Parelus, Portland, Oreg. Desk-hinge.....	562,901	June 30	3234	781	75	2057
Lambert, John W., assignor to Buckeye Manufacturing Company, Anderson, Ind. Work-man's time-recorder.....	553,033	Jan. 14	989	240	74	199
Lambert, John W., assignor to Buckeye Manufacturing Company, Anderson, Ind. Gas-engine governor.....	571,448	Nov. 17	1806	431	77	1018
Lambert, Lewis C., Lambertsville, Pa. Brake-block.....	559,294	Apr. 28	3178	767	75	647
Lambert, Philip H., Sangerville, Va. Wagon-brake.....	559,136	Apr. 28	2385	695	75	593
Lambert, Walter S., Geneseo, Ill. Boot-track.....	567,903	Sept. 15	2018	484	76	1687
Lambert, William W., <i>et al.</i> (See Balz, Emil A., assignor.)						
Lambertson, Elmer J., (See Axford and Lambertson.)						
Lambie, William T., <i>et al.</i> (See Lemon and Bartlett, assignors.)						
Lamkey, Frank L., St. Louis, Mo., assignor of one-half to P. H. Murphy, East St. Louis, Ill. Car-truck.....	554,277	Feb. 11	864	199	74	679
Lamkey, Frank L., St. Louis, Mo., assignor of one-half to P. H. Murphy, East St. Louis, Ill. Car-truck.....	554,278	Feb. 11	865	199	74	680
Lamkey, Frank L., St. Louis, Mo., assignor of one-half to P. H. Murphy, East St. Louis, Ill. Brake-beam.....	558,965	Apr. 28	2547	617	75	529
Lamkey, Frank L., St. Louis, Mo., assignor of one-half to P. H. Murphy, East St. Louis, Ill. Brake-beam.....	558,966	Apr. 28	2549	618	75	530
Lamkey, Frank L., St. Louis, Mo., assignor of one-half to P. H. Murphy, East St. Louis, Ill. Draft-rigging for railway-cars.....	563,283	July 7	83	21	76	18
Lamkey, Frank L., St. Louis, Mo., assignor of one-half to P. H. Murphy, East St. Louis, Ill. Brake-beam.....	563,284	July 7	85	21	76	18
Lamkey, Frank L., St. Louis, Mo., assignor of one-half to P. H. Murphy, East St. Louis, Ill. Car-truck.....	563,285	July 7	86	22	76	18
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Support for field-magnet coils.....	556,891	Mar. 24	2524	594	74	1651
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. System of electrical distribution.....	559,721	May 5	619	148 149	75	800
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Dynamo-electric generator.....	561,593	June 9	956	229	75	1576
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Alternating-current generator.....	564,702	July 28	2555	605	76	520
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Alternating-current generator.....	564,703	July 28	2556	605	76	520
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Compound-wound polyphase generator.....	565,284	Aug. 4	626	149	76	731
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. System of alternating-current regulation and distribution.....	571,836	Nov. 24	2495	591	77	1164
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Direct-current dynamo-electric generator.....	573,009	Dec. 15	1619	389	77	1625
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Method of and means for regulating alternating-current generators.....	574,035	Dec. 29	3514	839	77	2008
Lamont, Hugh H., San Francisco, Cal. Threshing-machine.....	567,648	Sept. 15	1602	385	76	1606
Lamontagne, Joseph, assignor of two-thirds to W. Bombriant, Gilbertville, and F. Bombard, Ware Mass. Paper-pulp engine.....	568,358	Sept. 29	2852	686	76	1870
Lamoreaux, William T. (See Corbin, Charles B., assignor.)						
Lamos, George W., Fort Madison, Iowa. Gas-engine.....	562,307	June 16	2183	530 531	75	1825
Lamoureux, Charles T., Montreal, Canada. Fare-box.....	557,131	Mar. 31	2930	702	74	1753
Lampe, Johannes L., Jr., Bloomington, Ill. Rotary steam-engine.....	571,378	Nov. 17	1693	403	77	996
Lamprecht, William, Sedan, and E. C. Krieger, Cuero, Tex. Chimney-protector.....	572,761	Dec. 8	1196	288	77	1524
Lampton, Eugene T. (See Prindle and Lampton.)						
Lamson Consolidated Store Service Company. (See Cowley, James T., assignor.)						
Lamson Consolidated Store Service Company. (See Goodfellow, John H., assignor.)						
Lamson, James H., Streator, assignor of one-half to W. A. Bass, Oswego, Ill. Washing-machine.....	555,012	Feb. 18	2143	510	74	937
Lamson, James H., Streator, assignor of one-half to W. A. Bass, Oswego, Ill. Washing-machine.....	573,336	Dec. 15	2217	530	77	1735
Lamson, Jarvis, Jr., Newton, Mass. Liquid-filtering device.....	555,821	Mar. 3	556	133	74	1231
Lamson Store Equipment Company. (See Farmer, Theodore P., assignor.)						
Lancaster, William B., New Orleans, La. Coffee-cooker.....	553,755	Jan. 28	2264	536	74	467
Land, Charles H., Detroit, Mich. Apparatus for focusing flame.....	553,992	Feb. 4	346	76	74	569
Land, Charles H., Detroit, Mich. Gas or hydrocarbon burner and furnace.....	553,993	Feb. 4	348	77	74	569
Land, Charles H., Detroit, Mich. Rest for dental-engine tools.....	569,210	Oct. 13	851	200 201	77	178
Land, Frank, Syracuse, N. Y. Electric switch.....	561,116	June 2	65	18	75	1379
Landau, Léopold, Paris, France. Safety-stopper for bottles.....	553,651	Jan. 28	2091	493	74	433
Landenberger, Emma M. D., St. Louis, Mo. Hook and eye.....	558,819	Apr. 21	2287	555	75	463

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Lander, John P., Oskaloosa, Iowa. Truss	554,825	Feb. 18	1808	424	74	877
Lauders, Ansel R., West Falmouth, Mass. Saw-jointer	563,286	July 7	88	22	76	19
Landers, Dennis J., Holyoke, Mass. Drainer-floor and tile therefor	572,762	Dec. 8	1197	229	77	1524
Landers, Joseph E., New Bedford, Mass. Inclosing case for erasive rubbers	556,681	Mar. 17	2149	502	74	1564
Landes, Charles B., Columbus, Ohio. Marble-shooting device	574,098	Dec. 29	3631	867	77	2031
Landes, Isaiah C. and M. C., Yerkas, Pa. Flour bolting or scalping machine	569,211	Oct. 13	853	201	77	178
Landes, Jacob G., Norristown, Pa. Means for unlocking nut-locks	573,337	Dec. 15	2219	530	77	1735
Landes, Milton C. (See Landes, Isaiah C. and M. C.)						
Landis, Abraham A. (See Vogt, Wilhelm, assignor.)						
Landis, Frank F., Waynesborough, Pa. Telescopic straw-stacker	562,227	June 16	2050	496	75	1801
Landis, Frank F., Waynesborough, Pa. Vehicle	562,623	June 23	2726	662	75	1942
Landis, Frank F., Waynesborough, Pa. Frictional gearing	562,624	June 23	2727	662	75	1943
Landis, Frank F., Waynesborough, Pa. Grain-cleaning device	562,625	June 23	2728	662	75	1943
Landis, Frank F., Waynesborough, Pa. Pneumatic stacker	567,031	Sept. 1	522	123	76	1381
Landis, Frank F., Waynesborough, Pa. Fan for pneumatic stackers	568,315	Sept. 22	2773	667	76	1841
Landis, Frank F., Waynesborough, Pa. Pneumatic stacker	569,504	Oct. 13	1353	318	77	271
Landis, Israel L., Milwaukee, Wis. Whiffletree-hook	560,804	May 26	2688	617	75	1262
Landis, Israel L., Milwaukee, Wis. Whiffletree-hook	561,057	May 26	3125	721	75	1346
Landis Wax Thread Sewing Machine Company. (See Dobyne, James B., assignor.)						
Landis, William A. (See Smith and Landis.)						
Landon, David C., Dubuque, Iowa. Locking device for saws	559,780	May 5	743	179	75	822
Landrum, Robert P., Julesburg, Colo. Sheep-shears	555,778	Mar. 3	481	115	74	1217
Landry, Francois X., Sherbrooke, assignor of one-half to J. B. Biron, Stoke, Canada. Stone-cutting machine	565,468	Aug. 11	934	223	76	809
Landry, Justin. (See Klotz, Landry, and Beyroux.)						
Landing, Jang, Brooklyn, N. Y. Photographic-plate holder and developing apparatus	562,544	June 23	2571	624	75	1913
Landstra, Dirk, Hackensack, N. J. Skylight and ventilator	556,895	Mar. 24	2525	625	74	1651
Landstra, Dirk, Hackensack, N. J. Non-refillable bottle	564,895	July 28	2883	691	76	578
Lane, Almeron M., Meriden, Conn. Clock-case	566,587	Aug. 25	2954	721	76	1226
Lane, Cornelius. (See Lane, John and C.)						
Lane, Cornelius, Holly, Mich. Wire fence	562,308	June 16	2186	531	75	1826
Lane, Daniel S., Johnstown, Pa. Dumping-wagon	566,194	Aug. 18	2237	652	76	1078
Lane, David T., assignor to W. N. Emery & Son, Franklin, Pa. Eccentric	556,680	Mar. 17	2148	502	74	1564
Lane, Delbert E., Beloit, Wis. Stool	569,212	Oct. 13	854	201	77	178
Lane, Dennis, assignor of one-half to L. Fritsch, Kirkwood, Mo. Cartridge-belt	560,618	May 19	2311	529	75	1174
Lane, Dillo A. (See Brintnall and Lane.)						
Lane, Edwin, Johnstown, Pa. Wrench	560,508	May 19	2122	485	75	1141
Lane, George, Poughkeepsie, N. Y. Tackle-block	567,032	Sept. 1	527	124	76	1382
Lane, Grant W., et al. (See Sherwood, Earl, assignor.)						
Lane, Horace H., Huntingdon, Pa. Steam-engine governor	553,918	Feb. 4	221	47, 48	74	546
Lane, Howard, Birmingham, and J. Pullman, London, England. Manufacturing carbonic-acid gas	556,991	Mar. 24	2684	633	74	1681
Lane, James R. (See Elliott, William E., assignor.)						
Lane, John and C., Holly, Mich. Spreadef and twister for fence-machines	555,453	Feb. 25	2949	701	74	1104
Lane, John G., Poughkeepsie, N. Y. Lifting-jack	557,836	Apr. 7	560	134	75	105
Lane, Julius S., Oak Park, Ill., and F. P. Mills, Ishpeming, Mich. Hoisting-engine	552,912	Jan. 14	797	193	74	162
Lane, Leslie C., Minneapolis, Minn. Seal for bottles	571,903	Nov. 24	2628	623	77	1188
Lane, M. Henry, et al. (See Cooney, Luke, Jr., assignor.)						
Lane, Peter. (See Rakestraw, Rowland, assignor.)						
Lane, Spencer B., assignor to American Ring Company, Waterbury, Conn. Rotary button-press	574,154	Dec. 29	3726	888	77	2047
Lane, Stephan N., et al. (See Armstrong, Robert G., assignor.)						
Lane, William G., North Sydney, Canada. Coal-dumping car	568,775	Oct. 6	110	26	77	23
Lane, William G., North Sydney, assignor of one-half to H. H. Bell, Halifax, Canada. Type-writing machine	569,928	Oct. 20	2119	504	77	427
Lane, William S., and J. E. Cooney, Central Falls, R. I. Toy balloon	563,287	July 7	89	22	76	19
Laney, Thomas G., Lima, Ohio. Cross-head for paraffin-removers	560,100	May 12	1394	313	75	959
Laney, Thomas G., Lima, Ohio. Polish-rod adjuster	560,101	May 12	1395	314	75	959
Laney, Thomas G., Lima, Ohio. Pumping-jack	569,926	Oct. 20	2115	503	77	426
Laney, Thomas G., Lima, Ohio. Pull-rod-bending apparatus	569,927	Oct. 20	2117	504	77	426
Lang, Benjamin P. M., Buffalo, N. Y. Breaching-strap	559,722	May 5	621	149	75	801
Lang, Edward M., Jr., Deering, assignor of one-half to H. C. Baxter, Brunswick, Me. Soldering-tool	559,337	Apr. 28	3256	787	75	662
Lang, John W., Los Angeles, Cal. Curtain-fixture	552,870	Jan. 7	698	170	74	131
Lang, Jules, and A. Fischer, Chicago, Ill. Vehicle-tire	566,588	Aug. 25	2954	721	76	1227
Lang, Karl R., Falkenstein, Germany. Shoulder-brace	556,424	Mar. 17	1721	401	74	1484
Lang, Louis S., Chicago, Ill. Duplicating sales-book or shipping-receipt	552,765	Jan. 7	483	119	74	91
Lang, Robert A., Eau Claire, Wis., assignor of two-thirds to W. A. Jones, St. Paul, and W. Sauntry, Stillwater, Minn. Hydraulic splash-board for dams	555,102	Feb. 25	2323	552	74	986
Lang, W. & W. A. (See Kuhfahl, Herman, assignor.)						
Lang, William and W. A., Brooklyn, N. Y. Tuning-peg	566,776	Sept. 1	71	18	76	1293
Lang, William A. (See Lang, William and W. A.)						
Langbein, Gustav. (See Gallager and Langbein.)						
Langdon, Thomas, South Los Angeles, Cal. Combined bed and sofa	561,005	May 26	3040	699	75	1329
Lange, Arthur, Milwaukee, Wis. Table	572,643	Dec. 8	976	235	77	1484
Langeaen, Jacobus, Cologne, Germany. End electrode for electric-power storage batteries	570,028	Oct. 27	2297	545	77	473
Langelier, Antoine J., Providence, R. I., assignor to D. Hunt, Boston, Mass. Milling-machine	567,952	Sept. 15	2112	509	76	1703
Langell, Albert G. (See Bowman and Langell.)						
Langen, Eugen, Cologne, Germany. Construction and connection of railway-cars and locomotives	553,756	Jan. 28	2265	537	74	467
Langen, Eugen, deceased, Cologne, Germany; G. Langen, ancillary administrator. Switch for single-rail railways	569,972	Oct. 20	2200	523	77	441
Langen, Gustav, administrator. (See Langen, Eugen.)						
Langenfeld, William, Halbur, Iowa. Composite musical instrument	561,004	May 26	3034	698	76	1328
Langen's Erben, Eugen. (See Feldmann, Wilhelm, assignor.)						
Langer, Charles A., Fort Wayne, Ind. Vegetable cutting and grating machine	573,431	Dec. 15	2407	573	77	1770

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Langer, Friedrich J., Cleveland, Ohio. Advertising device	564,704	July 28	2558	605	76	521
Langer, Gotthold, assignor to Perfect Filter Company, St. Louis, Mo. Filter.....	557,075	Mar. 24	2828	674	74	1710
Langer, Gotthold, assignor to O. Kulage, St. Louis, Mo. Hydraulic brick-press	570,314	Oct. 27	2861	678 679	77	579
Langer, Gotthold, assignor of one-half to G. W. Rarer, St. Louis, Mo. Motor-vehicle	573,010	Dec. 15	1623	389 390	77	1625
Langer, Robert F., San Francisco, Cal. Target-meter	565,358	Aug. 4	742	177 178	76	754
Langer, Theodor, Vienna, Austria-Hungary. Boiler-furnace	558,967	Apr. 28	2550	618	75	530
Langewald, Alfred A., Warren, Mass. Carding-engine	562,837	June 30	3119	755	75	2035
Langfelder, Henry, Jersey City, N. J. Damping device for music-boxes	560,415	May 19	1970	451	75	1114
Langhans, Rudolf, Berlin, Germany. Method of and composition for making artificial silk	571,530	Nov. 17	1952	.....	77	1044
Langhans, Rudolf, Berlin, Germany. Producing coatings composed of earthy oxids	571,531	Nov. 17	1954	466	77	1044
Langhans, Rudolf, Berlin, Germany. Producing coatings composed of earthy oxids	571,532	Nov. 17	1957	.....	77	1045
Langhans, Rudolf, Berlin, Germany. Electrolytic process of converting hydroxids of earth and earth alkali metals into indissoluble organic or inorganic salts, &c	571,533	Nov. 17	1959	.....	77	1045
Langley, Charles B. (See Fairbank and Langley.)						
Langley, Sarah. (See Walton, Andrew, assignor.)						
Langlotz, Adolph C. (See Schenck, Charles J., assignor.)						
Langlotz, Frederick, Cincinnati, Ohio. Mail-bag fastener	572,763	Dec. 8	1198	289	77	1524
Langman, Samuel, Lawrence, Mass. Sash-lock	553,287	Jan. 21	1466	352	74	302
Langston, Thomas, assignor to Edward Miller & Company, Meriden, Conn. Lantern	556,423	Mar. 17	1720	401	74	1483
Langton, James H., assignor of one-half to O. L. Palmer, Centreville, Mich. Butcher's tool-rack	572,764	Dec. 8	1199	289	77	1525
Langworthy, Lucius H. (See Meier, August H., assignor.)						
Langworthy, Lynn D., Syracuse, N. Y. Process of and apparatus for copying pictures	561,797	June 9	1321	316	75	1644
Lanham, Lewis A. (See Goble, Charles W., assignor.)						
Laning, Jay F., Norwalk, Ohio. Manifold-book	561,875	June 9	1455	351	75	1669
Lanius, Henry, Galion, Ohio. Ball-bearing	558,732	Apr. 21	2140	515	75	436
Lankford, William J., assignor of one-half to E. Chenoweth, Ottawa, Kans. Harvester	571,904	Nov. 24	2630	623 624	77	1188
Lanman, Henry A. (See Terrell, Elah, assignor.)						
Lanner, Axel M., Stockholm, Sweden. Stove	567,398	Sept. 8	1188	284	76	1513
Lannert, John A., and W. R. Jeavons, Cleveland, Ohio. Vapor-burner	556,355	Mar. 17	1599	373 374	74	1460
Lannert, John A., and W. R. Jeavons, Cleveland, Ohio. Valve for hydrocarbon-reservoirs	561,326	June 2	462	115	75	1450
Lannert, John A., and W. R. Jeavons, Cleveland, Ohio. Vapor-burner	570,854	Nov. 3	792	182	77	786
Lansdowne, James M., Greenville, Ohio. Blank check, draft, &c	569,973	Oct. 20	2201	523	77	442
Lansell, George, Bendigo, Victoria. Compressed-air water-elevator	561,230	June 2	269	67	75	1419
Lansing, Mary, Albany, N. Y. Curtain-pole	557,331	Mar. 31	3304	793	74	1818
Lansing Wheel-Barrow Company. (See Haag, William L., assignor.)						
Lanston, Tolbert, Washington, D. C. Machine for making justified lines of type	557,994	Apr. 7	831	197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	75	156
Lantzke, Albert, Bath Beach, assignor to New York Asbestos Manufacturing Company, New York, N. Y. Non-conducting covering	563,775	July 14	915	218	76	187
Lanzit, Joseph J., Chicago, Ill. Paper receptacle	567,649	Sept. 15	1604	386	76	1606
Lanzone, Edward. (See Lanzone, Rudolph and E.)						
Lanzone, Rudolph and E., South River, N. J. Rotary engine	572,707	Dec. 8	1094	265 266	77	1506
Laplane, David, West Superior, Wis. Mashing and meat-tendering machine	558,396	Apr. 14	1557	380	75	310
Lapp, Heinrich, Aschersleben, Germany. Apparatus for regulating and balancing weight of boring-rods in deep boring	557,837	Apr. 7	561	135	75	106
Lappin, John W., et al. (See Harvey, William F. H., assignor.)						
Lapworth, Charles A., Hopedale, Mass. Lamp shade or reflector holder	570,669	Nov. 3	471	110	77	726
Larimer, John J., Crab Tree, Pa. Gate-spring	572,899	Dec. 8	1403	340	77	1566
Larimer, William H., assignor of one-half to Mrs. C. M. Thompson, Terre Haute, Ind. Metallic railway-tie	568,359	Sept. 29	2854	686	76	1870
Larimer, William M., and W. H. Argo, Russell, Iowa. Dumb-waiter for well-refrigerators	563,190	June 30	3763	900	75	2163
Larimore, Wilson H., Girard, Kans. Smoke and cinder conveyer	570,315	Oct. 27	2866	679 680	77	579
Lark, William B. (See Daniel, Harry, assignor.)						
Larkin, John M., Memphis, Tenn. Car-coupling	553,587	Jan. 28	1982	469	74	415
Larkin, Nelson A., Chicago, Ill., assignor to Mergenthaler Linotype Company, of New Jersey. Linotype-machine	556,993	Mar. 24	2688	633	74	1682
Larkin, Patrick, San Jacinto, Cal. Track-jack	568,141	Sept. 22	2483	597	76	1784
Larkin, Peter C., Toronto, Canada. Packing-machine	567,145	Sept. 8	734	172	76	1433
Larkins, Walter F., London, England. Signaling system	558,820	Apr. 21	2288	556	75	463
Larrabee, Joseph G., Newark, N. J. Can-opener	560,905	May 26	2883	661	75	1300
Larsen, Anton, New York, N. Y. Dumb-waiter	556,992	Mar. 24	2686	633	74	1682
Larsen, Anton, New York, N. Y. Hoisting apparatus	569,046	Oct. 6	568	131	77	108
Larsen, Hakon S., Christiania, Norway. Cork cutting and grinding machine	565,285	Aug. 4	627	149	76	731
Larsen, John. (See Morrison and Larsen.)						
Larsen, Louis A., San Francisco, Cal. Bicycle-brake	561,594	June 9	957	229	75	1577
Larson, Axel, et al. (See Claussou, Ole, assignor.)						
Larson, Carl G., Sandviken, Sweden. Device for drawing tubes	561,327	June 2	463	115	75	1459

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Larson, Gilbert, Waukon, Iowa. Automatic wagon-brake.	565,469	Aug. 11	942	224	76	812
Larson, Nils, New York, N. Y. Coal and wood box.	564,382	July 21	2011	472	76	401
Larson, Ole, and J. W. Carlson, Wardner, Idaho; said Carlson assignor of one-sixth to said Larson. Drill-sharpener.	552,843	Jan. 7	644	158	74	121
Larson, Olle, Raymond, Wis. Gate.	552,690	Jan. 7	335	89	74	6
Larson, Petter A., Ida, Minn. Rotary engine.	562,545	June 23	2576	625	75	1914
Larson, Victor, White Plains, N. Y. Transom-operating device.	558,287	Apr. 14	1372	335	75	277
Larsson, Albert P., and K. Schultz, Omaha, Nebr. Lock for sliding doors.	555,779	Mar. 3	481	115	74	1217
Larsson, Jonas A., Toluca, Ill. Combination-penholder.	561,897	June 8	1491	360	75	1677
Larter, Robert, assignor of one-half to J. B. Scarlett, Newark, N. J. Lock-nut.	556,682	Mar. 17	2150	502	74	1564
Larway, John. (See Herschberger, Daniel, assignor.) (Reissue.)						
Lary, Morris. (See Arnold and Lary.)						
Larzeler, Charles F., assignor of one-half to W. H. Roberts, Davenport, N. Y. Fishing-reel.	558,821	Apr. 21	2290	556	75	463
Lasar, Godfrey H., St. Louis, Mo. Sash-lock.	554,633	Feb. 11	1484	347	74	796
Lassen, Andreas J., Chicago, Ill. Measuring-fanet.	572,017	Nov. 24	2813	664	77	1224
Laster, Harry W., Chicago, Ill. assignor to Barber Asphalt Paving Company, New York, N. Y. Method of and apparatus for repairing asphalt pavements.	552,913	Jan. 14	802	195	74	163
Latham, Albert, Springfield, Mass. Die for applying plastic coverings on eyelets.	571,837	Nov. 24	2497	591	77	1165
Latham, Albert, assignor of one-half to J. W. Nourbourn, Springfield, Mass. Machine for manufacturing plastic-covered eyelets.	566,691	Aug. 25	3110	760	76	1255
Latham, Albert, assignor of one-half to J. W. Nourbourn, Springfield, Mass. Device for feeding eyelets or similar objects.	568,201	Sept. 22	2582	622	76	1803
Latham, Albert, assignor of one-half to J. W. Nourbourn, Springfield, Mass. Die for covering eyelets with plastic material.	568,360	Sept. 29	2855	686	76	1871
Latham, Martin C. (See Lussier, Frederick, assignor.)						
Lathrop, Edward S., Decatur, Ga. Toy cotton-boll.	558,733	Apr. 21	2140	516	75	436
Lathrop, George A., Jr. (See Jarman, George R., assignor.)						
Lathrop, George H., et al. (See Davis, Lawrence W., assignor.)						
Lathrop, William A., Wilkes-Barré, Pa. Mechanism for unloading, storing, and reloading coal.	572,900	Dec. 8	1404	340	77	1566
Latimer, Lewis H., Brooklyn, assignor of one-half to J. P. McDonough, New York, N. Y. Locking-rack for hats, coats, umbrellas, &c.	557,076	Mar. 24	2830	674	74	1711
Latimer, Thomas H. (See Pusey, Latimer, and Savary.)						
Latimer, Thomas H., Wilmington, Del. Automatic doctor.	559,723	May 5	621	149	75	801
Latimer, William G., Detroit, Mich. Speed-indicating alarm.	553,121	Jan. 14	1158	281	74	232
Latrige, Paul B., St. Etienne, France. Magazine-pistol.	573,338	Dec. 15	2320	530	77	1735
Latta, Emmet G., Friendship, N. Y., assignor to Pope Manufacturing Company, Portland, Me. Velocipede.	555,647	Mar. 3	287	67	74	1182
Latta, Emmet G., Friendship, N. Y., assignor to Pope Manufacturing Company, Portland, Me. Velocipede.	555,648	Mar. 3	289	67, 68	74	1182
Latta, John L. (See Martin and Latta.)						
Lattig, George M. (See Hicks, George, assignor.)						
Lattig, Jacob W., South Bethlehem, Pa. Automatic railway signal system.	560,102	May 12	1397	314	75	960
Lattig, Jacob W., South Bethlehem, Pa. Compensating device for railway-signal-operating apparatus.	562,770	June 23	2973	720	75	1991
Latulip, Frederick, assignor of one-half to E. J. Shanahan, Syracuse, N. Y. Journal-bearing.	564,564	July 21	2324	545	76	457
Laubsch, Carl L., assignor of one-half to L. A. Wetzel and O. E. Uhle, Norfolk, Nebr. Elbow.	568,537	Sept. 29	3177	765	76	1928
Laube, Godfried, Huron, S. D., assignor of one-half to V. L. Grable, Malakoff, Tex. Rotary pneumatic toy.	571,449	Nov. 17	1807	431 } 432 }	77	1018
Laube, Godfried, assignor of one-half to A. Vandenburg, Huron, S. D. Trace-holder.	572,427	Dec. 1	609	144	77	1394
Laube, Godfried, assignor of one-half to A. Vandenburg, Huron, S. D. Trace-holder.	572,487	Dec. 1	693	166	77	1410
Laube, Godfried, Huron, S. D., assignor of one-half to C. and S. Johnson, River Falls, Wis. Combined radiator and stovepipe-shelf.	552,844	Jan. 7	646	158	74	122
Laubmann, Heinrich, Höchst-on-the-Main, Germany. Dye from dinitro-anthrachrysonedisulfo acid.	555,904	Mar. 3	710		74	1262
Laubmann, Heinrich, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Blue dye and making same.	569,418	Oct. 13	1210		77	246
Laubmann, Heinrich, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Dinitroanthrachrysonedisulfonic acid and making same.	569,419	Oct. 13	1211		77	246
Laubscher, Alexander, assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Hemmer.	560,416	May 19	1971	451	75	1114
Landahn, William, Port Angeles, Wash. Bottle-closure.	564,826	July 28	2771	659	76	557
Landon, Hugh M. (See Davis, Frederick A. W., assignor.)						
Laner, Joseph W. (See Mayes, Wilton P., assignor.)						
Lauffer, Emil J. (See Brunner and Lauffer.)						
Laughlin, James C., Columbus, Ind. Duplicate desk.	571,486	Nov. 17	1874	447	77	1029
Laughlin, James W., New Haven, Ind. Fountain-pen.	559,034	Apr. 23	2663	649	75	552
Laughlin, Samuel J., and J. Hough, Guelph, Canada. Blackboard.	552,914	Jan. 14	803	196	74	164
Laughlin, Samuel J., and J. Hough, Guelph, Canada. Drawing-table.	562,931	July 14	1218	285	76	242
Laupheimer, Maurice, et al. (See Timmons, Louis H., assignor.)						
Launier, William C., Detroit, Mich. Burial-casket.	559,457	May 5	192	42	75	719
Laux, Henry. (See Keshner and Laux.)						
Laval, Carl G. P. de, Stockholm, Sweden. Rotating shaft.	553,811	Jan. 28	2353	560	74	483
Laval, Carl G. P. de, Stockholm, Sweden. Water-tube boiler.	557,838	Apr. 7	562	135	75	106
Laval, Carl G. P. de, Stockholm, Sweden. Apparatus for steadying motion of rapidly-rotating shafts.	563,191	June 30	3765	900 } 901 }	75	2163
Laval, Carl G. P. de, Stockholm, Sweden. Means for suppressing concussion or hammering shocks in pumping water to boilers.	563,192	June 30	3767	901	75	2163
Laval, Carl G. P. de, Stockholm, Sweden. Governor for motors.	569,634	Oct. 20	1965	467	77	398
Laval, Carl G. P. de, Stockholm, Sweden. Cow-milker.	574,357	Dec. 29	4128	980	77	2121
Lavallette, Virginia, Philadelphia, Pa. Dress-shield.	555,383	Feb. 25	2811	661	74	1078
Lavens, Erwin. (See Swoboda and Lavens.)						
Lavens, Erwin, Brooklyn, N. Y. Making interior conduits.	570,256	Oct. 27	2715	645	77	553
Lavens, Erwin, assignor to General Incandescent Arc Light Company, New York, N. Y. Electric-arc lamp.	555,706	Mar. 3	375	87	74	1196
Lavey, Curtis J., Bristol, Wis. Drawbridge-gate.	570,029	Oct. 27	2298	545 } 546 }	77	473
Lavigne, Joseph P., assignor to Lavigne & Scott Manufacturing Company, New Haven, Conn. Apparatus for forming sliding jaws for wrenches.	560,038	May 12	1268	285	75	935
Lavigne, Joseph P., New Haven, Conn., assignor to W. M. Tower, Brooklyn, N. Y. Hair-clipper.	561,058	May 26	3126	721	75	1346

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Lavigne, Joseph P., assignor of one-half to W. F. Day, New Haven, Conn. Pedal for bicycles.	564,431	July 21	2099	491	76	417
Lavigne & Scott Manufacturing Company. (See Lavigne, Joseph P., assignor.)						
Lavigne & Scott Manufacturing Company. (See Scott, William W., assignor.)						
Lavoie, Auguste, Fitchburg, Mass. Railway-crossing	573,011	Dec. 15	1624	390	77	1626
Lavoie, Urbain, assignor of one-half to A. d'Entressangle, Denver, Colo. Stamp-mill	560,805	May 26	2689	618	75	1263
Law, Alfred A., New York, N. Y. Dose-measuring bottle	570,759	Nov. 3	628	144	77	753
Law, Charles, Pittston, Pa. Revolving screen	561,595	June 9	959	229	75	1577
Law, Charles M. (See Borland and Law.)						
Law, Edward F., London, England. Telegraphy	562,004	June 16	1671	408	75	1731
Law, Martin C., Klemme, Iowa. Combined feeder and band-cutter	552,615	Jan. 7	194	54	74	38
Law, Myron D., Washington, D. C., assignor to A. G. Wheeler, Chicago, Ill. Traveling-contact device	555,958	Mar. 10	816	195	74	1302
Law, Myron D., Washington, D. C., assignor to A. G. Wheeler, Chicago, Ill. Underground trolley	555,959	Mar. 10	821	195	74	1303
Law, Prentiss E., Santa Barbara, Cal. Car-fender	564,827	July 28	2773	659	76	558
Law, Samuel H., assignor of one-half to H. Pennie, Brooklyn, N. Y. Pedal attachment	562,546	June 23	2577	626	75	1914
Law, William H., Peterborough, Canada. Traveling swing-drill	562,005	June 16	1678	408	75	1732
Lawrance, James P. S. (See Strite, Samuel M., assignor.)						
Lawrence, Charles P., Norway, Me. Lasting-machine	559,724	May 5	623	149	75	801
Lawrence, Charles P., Norway, Me. Pulling-over machine for boots or shoes	559,726	May 5	628	151	75	802
Lawrence, Charles P., Mechanic Falls, Me. Lasting-machine	559,725	May 5	626	150	75	802
Lawrence, Edward R., New Haven, Conn. Maze puzzle	556,152	Mar. 10	1192	279	74	1370
Lawrence, Edwin F. (See Lawrence, John H., assignor.)						
Lawrence, Edwin F., et al. (See Sinex, Andrew D., assignor.)						
Lawrence, George R., Chicago, Ill. Electric flash-light apparatus	557,403	Mar. 31	3436	823	74	1843
Lawrence, George T., New York, N. Y., and H. R. Tillison, assignors to S. A. Woods Machine Company, Boston, Mass. Wood-planing machine	566,082	Aug. 18	2066	503	76	1042
Lawrence, Harry W., assignor of one-half to W. A. Blakeney, Denver, Colo. Electric-light switch	553,857	Feb. 4	81	16	74	520
Lawrence, Herbert W., Montevideo, Minn. Antirattler for thill-couplings	573,786	Dec. 22	3041	721	77	1909
Lawrence, John H., et al. (See Sinex, Andrew D., assignor.)						
Lawrence, John H., assignor of one-half to E. F. Lawrence, Sterling, Ill. Hinge	568,316	Sept. 22	2776	668	76	1841
Lawrence, John J., Jr., Pittsburg, Pa. Cash register and indicator	556,756	Mar. 24	2290	539	74	1608
Lawrence, John T., London, England. Optical toy	568,260	Sept. 22	2685	643	76	1823
Lawrence, Sidney, Melbourne, Victoria. Mechanism for and mode of marine propulsion	565,359	Aug. 4	745	178	76	755
Lawrence, William E., Jersey City, N. J. Mucilage receptacle or can	560,725	May 26	2551	568	75	1236
Lawrence, William H. (See Cooch and Lawrence.)						
Laws, Albert D., assignor to Eaton, Cole & Burnham Company, Bridgeport, Conn. Machine-chuck	567,399	Sept. 8	1190	284	76	1514
Laws, Daniel O., et al. (See Klettner, Charles R., assignor.)						
Lawson, Alonzo M., Washington, D. C. Boiler-cleaner	573,226	Dec. 15	2006	481	77	1698
Lawson, Benjamin S., Red Bank, N. J., assignor to Roller-Bearing Truck Company, New York, N. Y. Roller-bearing	572,681	Dec. 8	1041	252	77	1497
Lawson, Henry J., London, England. Velocipede	561,798	June 9	1322	317	75	1644
Lawson, Perry. (See Carlson and Lawson.)						
Lawton, Arthur R. (See Green and Lawton.)						
Lawton, James F. (See Tyzick and Lawton.)						
Lawton, William, South West Harbor, Me. Cake-beater	565,007	Aug. 4	77	19	76	632
Lawyer, Charles W., Berkeley Springs, W. Va. Button	568,030	Sept. 22	2273	550	76	1746
Lay, Frank B., et al. (See Cooney, Luke, Jr., assignor.)						
Laybourne, Richard, et al. (See Price, Benjamin, assignor.)						
Layng, John E., San Francisco, Cal. Machine for making spherical-grain powder	566,777	Sept. 1	72	18, 19	76	1294
Layton, Edward L., assignor of four-fifths to J. Grumbacher, W. Fagan, W. G. Sickell, and W. H. Limberg, Trenton, N. J. Dumping-wagon	573,987	Dec. 29	3430	822	77	1993
Lazarus, Jacob. (See Lorang, Peter, assignor.)						
Lazell, James D., Philadelphia, Pa. Construction of fireproof buildings	560,587	May 19	2255	517	75	1165
Le Blanc, Alexis, New York, N. Y., assignor to Electric Selector and Signal Company, of West Virginia. Electric selector	566,914	Sept. 1	304	71, 72	76	1341
Le Blanc, Alexis, New York, N. Y., assignor to Electric Selector and Signal Company, of West Virginia. Electric selector	566,915	Sept. 1	308	72, 73	76	1341
Le Blanc, Alexis, New York, N. Y., assignor to Electric Selector and Signal Company, of West Virginia. Selecting device	566,916	Sept. 1	312	73	76	1342
Le Blanc, Alexis, New York, N. Y., assignor to Electric Selector and Signal Company, of West Virginia. Electrical transmitting instrument	566,917	Sept. 1	314	73	76	1342
Le Blanc, Alexis, New York, N. Y., assignor to Electric Selector and Signal Company, of West Virginia. Electromagnet	566,915	Sept. 1	316	74	76	1343
Le Blanc, Ben C. (See Nadler and Le Blanc.)						
Le Blois, Leopold, and G. Piceni, Elbeuf, France. Process of and apparatus for dyeing	570,316	Oct. 27	2867	680	77	580
Le Brocq, Richard F., New York, N. Y. Automatic safety attachment for elevators	561,232	June 2	272	68	75	1420
Le Clair, Alfred J., New York, N. Y., assignor to Mineralized Rubber Company, of New York. Stair-pad or the like	567,985	Sept. 22	2176	524	76	1729
Le Doux, Carl. (See David and Le Doux.)						
Le Fer à Cheval Caouthouche. (See Juillard, Antonin, assignor.)						
Le Fevre, George A., New York, N. Y. Lock	558,084	Apr. 14	1036	253	75	212
Le Fevre, Nevill B. (See Knight, William H. H., assignor.)						
Le Flamboy, Asa N., Lincoln, Ill. Fence	563,042	June 30	3487	838	75	2110
Le Grand, Augustus L., assignor to Exeter Machine Works, Pittston, Pa. Conveying apparatus	570,876	Nov. 3	831	193	77	794
Le Gros, Alfred P., Louisville, Ky. Freight-car roof	561,406	June 2	609	151	75	1486
Le Gros, Alfred P., Louisville, Ky. Freight-car door	565,286	Aug. 4	628	149	76	732
Le Gros, Alfred P., Louisville, Ky. Wheel for bicycles	567,835	Sept. 15	1920	460	76	1668
Le Sieur, St. Vrain, assignor of one-half to C. A. Peterson, St. Louis, Mo. Composition of matter	572,645	Dec. 8	978		77	1484
Le Sueur, Ernest A., Ottawa, Canada. Electrical propulsion of vessels	555,252	Feb. 25	2579	606	74	1035
Le Vasseur dit Belisle, Joseph N., Manchester, N. H. Hoof-protecting plate	562,085	June 16	1826	444	75	1758
Lea, Arthur H. (See Durant, Frederick C., assignor.)						
Lea, Arthur H., and J. F. Foulke, Philadelphia, Pa. Filter	553,994	Feb. 4	351	77, 78	74	569
Lea, Samuel H., assignor of one-half to E. T. Ogle, New York, N. Y. Tool for reseating faucets	571,572	Nov. 17	2027	482	77	1057
Lea, Thomas, et al. (See Higgins, Joseph C., assignor.)						
Leach, Charles W., Baltimore, Md. Spool-holder	557,278	Mar. 31	3213	771	74	1800

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Leach, Edwin J., and W. G. Bryant, Detroit, Mich. Music-holder	556,573	Mar. 17	1998	{ 466 467	74	1535
Leach, Henry L., Cambridge, Mass. Automatic track-sanding apparatus	572,428	Dec. 1	610	{ 144 145	77	1394
Leach, John F., Independence, Mo. Spring-mattress	569,420	Oct. 13	1212	285	77	240
Leach, William J., Brighton, Wis. Wrench	563,193	June 30	3768	901	75	2163
Lead Lined Iron Pipe Company. (See Harrington, George W., assignor.)						
Leahan, James E., Boston, Mass. Ice-velocipede	561,405	June 2	607	151	75	1485
Lean, George R., assignor to Jandus Electric Company, Cleveland, Ohio. Electric-arc lighting	553,919	Feb. 4	223	48	74	546
Lean, George R., assignor to Jandus Electric Company, Cleveland, Ohio. Electric-arc-lighting system	553,920	Feb. 4	225	49	74	547
Lean, George R., assignor to Jandus Electric Company, Cleveland, Ohio. Electric-arc-lighting	553,921	Feb. 4	226	49	74	547
Lean, George R., assignor to Jandus Electric Company, Cleveland, Ohio. Electric-arc-lighting (Reissue)	11,559	July 21	2357	{ 554 555	76	463
Lean, George R., assignor to Jandus Electric Company, Cleveland, Ohio. Electric-arc lamp	571,974	Nov. 24	2745	{ 648 649	77	1211
Lean, George R., assignor to Jandus Electric Company, Cleveland, Ohio. Carbon-holder	571,975	Nov. 24	2751	649	77	1213
Lean, George R., assignor to Jandus Electric Company, Cleveland, Ohio. Electric-arc lamp	571,976	Nov. 24	2752	649	77	1213
Lean, George R., and J. R. Massey, assignors to Buckeye Electric Company, Cleveland, Ohio. Apparatus for manufacturing incandescence electric lamps	568,142	Sept. 22	2484	{ 597 598 599	76	1785
Lean, Harold E., and N. S. Bray, Calumet, Mich. Advertising or bulletin board	561,231	June 2	270	67	75	1420
Learnroyd, Samuel, Huddersfield, England. Name or mark tablet for ribs of umbrellas	555,780	Mar. 3	462	116	74	1217
Leary, John E., Brooklyn, N. Y. Canopy or netting support	569,025	Oct. 6	533	123	77	101
Leary, John J. (See Todd and Leary.)						
Leary, William A., Norfolk, Va. Drier-truck	570,644	Nov. 3	417	98	77	715
Leatch, William, Canal Dover, Ohio. Babbitt box	554,224	Feb. 4	758	173	74	645
Leatch, William, Canal Dover, Ohio. Snow-plow	557,995	Apr. 7	859	216	75	161
Leavenworth, Seth H., assignor to Homan Silver-Plating Company, Cincinnati, Ohio. Mechanism for ornamenting ductile articles	562,309	June 16	2187	581	75	1826
Leavenworth, Seth H., assignor of one-half to J. T. Homan, Cincinnati, Ohio. Metal tube	563,932	July 14	1219	285	76	242
Leavitt, Frank M. (See Child, Foy, and Leavitt.)						
Leavitt, Frank M. (See Foy and Leavitt.)						
Leavitt, Frank M., assignor to E. W. Bliss Company, Brooklyn, N. Y. Shaft-coupling	552,532	Jan. 7	49	15, 16	74	12
Leavitt, Frank M., Brooklyn, assignor to Economic Machine Company, New York, N. Y. Paper-feeding machine	567,276	Sept. 8	959	{ 228 229	76	1472
Leavitt, Frank M., Brooklyn, N. Y., assignor to H. A. Penrose, Baltimore, Md. Machine for molding plastic material	558,500	Apr. 21	1750	{ 424 425	75	364
Leavitt, Frank M., assignor to E. W. Bliss Company, Brooklyn, N. Y. Clutch for power-presses	568,575	Sept. 29	3243	781	76	1942
Leavitt, Frederick L. (See Woodman, Alvin, assignor.)						
Leavitt Machine Company. (See Dexter, Frank E., assignor.)						
Leavitt, Percy W., Akron, Ohio. Ruler	566,195	Aug. 18	2258	552	76	1078
Leavitt, William H., Hingham, Mass. Car-fender	554,883	Feb. 18	1912	450	74	895
Leblanc, Maurice. (See Hutin and Leblanc.)						
Lebrecht, John C. (See Finot, Philip, assignor.)						
Leche, John V. (See Gaiennie, Alphonse F., assignor.)						
Lechner, Francis M., Columbus, Ohio. Mining-machine	564,705	July 28	2559	606	76	521
Lechner, Francis M., Columbus, Ohio. Mining-machine	569,758	Oct. 20	1845	437	77	376
Lechner, Fred W., Garfield, Ill. Gate-latch	559,295	Apr. 23	3179	768	75	647
Lechner, Joseph, Oswego, N. Y. Combined trace-releaser, holdback, and brake	558,228	Apr. 14	1373	{ 335 336	75	277
Lechner Manufacturing Company. (See Legg, Benjamin A., assignor.)						
Leclercq & Hirt. (See Mondragon, Manuel, assignor.)						
Lecompte, O'Lesime, Aurora, Ill. Automatic car and air-brake coupling	554,521	Feb. 11	1278	299	74	757
Ludden, John J., Baltimore, Md. Hose-nozzle	571,048	Nov. 10	1124	263	77	877
Leddy, Owen, McKinney, Tex. Clothes-pounder	553,169	Jan. 14	1238	301	74	246
Lederer, Adolph, New York, N. Y. Chenille trimming	574,366	Dec. 29	4142	984	77	2123
Lederer, Leonhard, Munich, Germany. Obtaining phenols	554,938	Feb. 18	2006	.....	74	912
Lederer, Leonhard, Munich, assignor to F. von Heyden Nachfolger, Radebeul, Germany. Obtaining oxybenzyl alcohol	563,975	July 14	1299	.....	76	256
Lederhos, Charles, et al. (See Hutchins, Abner B., assignor.)						
Ledoux, Aug. D. (See O'Brien, Andrew P., assignor.)						
Lee, Charles, San Antonio, Tex. Horse-check	564,330	July 21	1922	454	76	385
Lee, Charles, San Antonio, Tex. Car-coupling	571,771	Nov. 24	2383	569	77	1143
Lee, Charles, and E. J. Baldwin, Cardiff, Tenn. Envelop	572,488	Dec. 1	694	{ 166 167	77	1411
Lee, Charles P., Uniontown, Ohio. Cultivator	558,501	Apr. 21	1752	425	75	365
Lee, David A. (See Lee, James E., D. A., and T. E.)						
Lee, Elmer, Chicago, Ill. Reservoir for liquid soap	570,935	Nov. 10	939	218	77	842
Lee, Elmer, Chicago, Ill. Case for surgical instruments	570,936	Nov. 10	940	219	77	842
Lee, George, Dunedin, New Zealand. Hydraulic elevator	574,338	Dec. 29	4099	974	77	2116
Lee, George S., Hawthorne, N. J., assignor, by mesne assignments, to National Air-Brake Company, New York, N. Y. Air-brake	557,511	Mar. 31	3624	869	74	1879
Lee, George S., Hawthorne, N. J., assignor, by mesne assignments, to National Air-Brake Company, New York, N. Y. Air-brake	557,512	Mar. 31	3625	869	74	1879
Lee, George S., Hawthorne, N. J., assignor, by mesne assignments, to National Air-Brake Company, New York, N. Y. Air-brake	557,513	Mar. 31	3627	{ 869 870	74	1879
Lee, George S., Hawthorne, N. J., assignor, by mesne assignments, to National Air-Brake Company, New York, N. Y. Air-brake	557,514	Mar. 31	3629	870	74	1880
Lee, George S., Hawthorne, N. J., assignor, by mesne assignments, to National Air-Brake Company, New York, N. Y. Air-brake	557,515	Mar. 31	3630	870	74	1880
Lee, George W., Hempstead, and C. Bramberg, New York, N. Y. Separable button or stud	556,851	Mar. 24	2441	573	74	1636
Lee, Herman F. (See Keyes and Lee.)						
Lee, Jacob M., Houston, Tex. Stock-guard	571,232	Nov. 10	1450	340	77	936
Lee, James E., D. A., and T. E., Centerville, Iowa. Mining-machine	563,776	July 14	916	{ 218 219	76	187
Lee, James T., and U. P. Sawyer, Camilla, Ga. Fence	571,049	Nov. 10	1125	262	77	877
Lee, James W., Jr., Mexico, Mo. Steam-cooker	559,137	Apr. 28	2886	695	75	593
Lee, John T., Atlanta, Ga. Fan attachment for sewing-machines	573,012	Dec. 15	1626	390	77	1626

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Lee, Ole E., Oelwein, Iowa, assignor of one-half to L. B. Robinson, Orlando, Fla. Envelop.	565,470	Aug. 11	943	224	76	812
Lee, Ralph W., <i>et al.</i> (See Auble and Weiss, assignors.)						
Lee, Rufus K., assignor to himself and G. L. Martin, Brooklyn, N. Y. Broiler.	567,400	Sept. 8	1192	285	76	1514
Lee, Sarah, Chicago, Ill. Sleeve-adjuster.	562,838	June 30	3120	755	75	2035
Lee, Thomas, Home City, Ohio. Spark-arrester.	567,601	Sept. 15	1521	366	76	1590
Lee, Thomas, Philadelphia, Pa. Puzzle.	569,166	Oct. 6	667	154	77	127
Lee, Thomas, and S. Hazard, Home City, Ohio. Cover for preserving-vessels.	553,922	Feb. 4	227	49	74	548
Lee, Thomas, and S. Hazard, Home City, Ohio. Screw-cap for preserving-vessels.	560,906	May 26	2284	662	75	1300
Lee, Thomas E. (See Lee, James E., D. A., and T. E.)						
Lee, William, assignor of five-sixths to E. O. Geesey and C. S. Myer, Altoona, Pa. Nipple-holder.	573,013	Dec. 15	1627	391	77	1626
Lee, William, assignor of five-sixths to E. O. Geesey and C. S. Myer, Altoona, Pa. Cellar-drainer.	573,014	Dec. 15	1628	391	77	1627
Leach, T. Ellis, <i>et al.</i> (See Borle, James E., assignor.)						
Leader, William E., Springfield, Ill. Monthpiece for musical instruments.	556,757	Mar. 24	2 96	539	74	1608
Leadle, George D., Springfield, Ohio. Clothes-wringer.	554,939	Feb. 18	2007	475	74	912
Leads, John W., Stamford, Conn. Folding parallel-ruler.	564,204	July 21	1716	401	76	348
Leads, Louise M., Chicago, Ill., assignor to Lip Garment Guard Company, New York, N. Y. Dress-protector.	565,759	Aug. 11	1489	364	76	913
Leeper, Bartram G., assignor of one-half to G. I. Varney, Poughkeepsie, N. Y. Fishing-rod.	553,005	Jan. 14	951	230	74	192
Leeper, James F., Lewistown, Pa. Bottle-washer.	574,155	Dec. 29	3730	889	77	2048
Leeson, Joseph R. (See Wardwell, Simon W., Jr., assignor.)						
Leesnitzer, George W., Washington, D. C. Index.	562,310	June 16	2187	{ 531 532 }	75	1826
Leet, Willis D. (See Wilmont Edwin, assignor.)						
Lefavour, John H. (See Staples, Willard G., assignor.)						
Lefebvre, Edward A., Jr., Brooklyn, N. Y., assignor to Lefebvre Manufacturing Company, of New York. Bicycle-support.	556,758	Mar. 24	2297	540	74	1608
Lefebvre Manufacturing Company. (See Lefebvre, Edward A., Jr., assignor.)						
Lefebvre, Julian L., and C. S. Upton, Eureka Junction, Wash. Force and lift pump.	569,047	Oct. 6	569	131	77	108
Lefevre, Charles F., Syracuse, N. Y. Bicycle-saddle.	571,379	Nov. 17	1695	404	77	996
Lefevre, Henry, Paris, France. Machine for bending metals.	567,811	Sept. 15	1880	450	76	1660
Lefferts, Marshall C. (See Stevens and Lefferts.)						
Leffler, Charles. (See Chilcote and Leffler.)						
Leffler Electro Magnetic Railway Company. (See Leffler, Paul W., assignor.)						
Leffler, Paul W., assignor to Leffler Electro Magnetic Railway Company, Chicago, Ill. Electric railway.	561,898	June 9	1492	{ 360 361 }	75	1677
Leffler, Paul W., assignor to Leffler Electro Magnetic Railway Company, Chicago, Ill. Continuous-current rectilinear motor.	561,899	June 9	1496	362	75	1678
Leffler, Paul W., assignor to Leffler Electro Magnetic Railway Company, Chicago, Ill. Electric railway.	573,819	Dec. 22	3100	{ 737 738 }	77	1920
Leffler, Paul W., assignor to Leffler Electro Magnetic Railway Company, Chicago, Ill. Electric elevator.	573,820	Dec. 22	3101	{ 738 739 740 }	77	1920
Leffler, Paul W., assignor to Leffler Electro Magnetic Railway Company, Chicago, Ill. Electric railway, &c.	573,821	Dec. 22	3108	{ 740 741 }	77	1921
Leffler, Paul W., assignor to Leffler Electro Magnetic Railway Company, Chicago, Ill. Electric railway, &c.	573,822	Dec. 22	3111	{ 741 742 }	77	1922
Leffler, Paul W., assignor to Leffler Electro Magnetic Railway Company, Chicago, Ill. Motor-car truck.	573,823	Dec. 22	3119	{ 742 743 }	77	1923
Leffing, Edward. (See Gebhard, Paul, assignor.)						
Lefrov, Frank H., New York, N. Y. Changeable gearing.	556,852	Mar. 24	2442	573	74	1636
Legate, Joseph B., Jerseyville, Ill. Thill-coupling.	561,799	June 9	1323	217	75	1645
Legenisei, Eugene. (See Walrand and Legenisei.) (Reissue.)						
Leger, Edward, Chicago, Ill. Display-figure.	560,907	May 26	2285	662	75	1300
Leger, Edward, Chicago, Ill. Show-fixtue.	566,521	Aug. 25	2263	695	76	1209
Leger, Edward, Chicago, Ill. Hat-holder.	571,772	Nov. 24	2385	569	77	1143
Legg, Benjamin A., assignor to Lechner Manufacturing Company, Columbus, Ohio. Rotary engine.	560,921	May 19	1614	364	75	1052
Leggett, Clinton H., New York, N. Y. Powder-distributor.	556,508	Mar. 17	1881	479	74	1514
Leggett, Clinton H., New York, N. Y. Discharge-spout for powder-distributors.	568,776	Oct. 6	111	27	77	23
Leggett, Clinton H., New York, N. Y. Fly-catcher.	570,486	Nov. 3	89	21	77	655
Leggett, Joseph P., Carthage, Mo. Spring bed-bottom.	553,412	Jan. 21	1670	378	74	340
Legh, Gilbert, and H. W. Maclear, London, England. Surveying instrument.	554,190	Feb. 4	707	160	74	635
Legros, Oscar, <i>et al.</i> (See Skanks, Stephen C., assignor.)						
Leibberger, George, Newburg, N. Y. Wire fence.	557,684	Apr. 7	227	69	75	54
Leibbach, Gustav, Jersey City, N. J. Making joints of pipes having bell ends.	572,901	Dec. 8	1406	341	77	1567
Leibman, Frank H., Lebanon, Pa. Puzzle.	571,672	Nov. 17	2186	526	77	1087
Lehman, Richey G., San Diego, Cal. Horse-collar.	564,069	July 14	1505	352	76	295
Lehmann, Adolph, Moorefield, Ohio. Fruit evaporator.	573,787	Dec. 22	3042	721	77	1909
Lehmann, Anthony A., assignor to J. W. Brown, Baltimore, and R. T. Bowne, Wimbledon, Md. Railway time-signal.	569,974	Oct. 20	2202	{ 523 524 }	77	442
Lehmann, Charles, and E. Brunhoff, Cincinnati, Ohio. Automatic cigar-tip cutter.	567,277	Sept. 8	965	229	76	1473
Lehmann, Oscar H., Evansville, Ind. Fastener for tailpieces of musical instruments.	569,647	Oct. 20	1630	385	77	339
Lehmann, Richard, assignor of one-half to J. A. Quell, Brooklyn, N. Y. Hub-attaching device for vehicle-axles.	572,489	Dec. 1	697	167	77	1411
Lehmer, Isaac, and W. A. Thomas, Fawn River, Mich. Mole-trap.	560,806	May 26	2291	618	75	1263
Lehnbeuter, Joseph, St. Louis, Mo. Removable window-sash.	553,413	Jan. 21	1671	398	74	341
Lehnbeuter, Joseph, St. Louis, Mo. Removable window-sash.	561,800	June 9	1324	317	75	1645
Lehner, Friedrich, Zurich, Switzerland. Making artificial silk.	559,392	May 5	76	17	75	695
Lehner, Friedrich, Zurich, Switzerland. Preparing artificial silk.	562,626	June 23	2730		75	1943
Lehner, Friedrich, Augsburg, Germany. Process of and apparatus for making artificial silk.	562,732	June 23	2914	707	75	1978
Lehning, Friedrich M., Barmen, Germany. Corset-fastening.	569,213	Oct. 13	855	201	77	179
Lehnkering, August L., <i>et al.</i> (See Dustin, Leander, assignor.)						
Leib, David, Columbus, Ohio. Street-car fender.	556,061	Mar. 10	1022	244	74	1339
Leibe, Ludwig H., San José, and J. A. Vanderpool, Napa, Cal. Strap-machine.	554,069	Feb. 4	486	{ 109 110 }	74	594
Leiber, William C., Philadelphia, Pa. Fastener for shoes, &c.	571,450	Nov. 17	1807	432	77	1018
Leibert, Owen F., Bethlehem, Pa. Water-heater.	568,690	Sept. 29	3464	{ 828 829 }	76	1983
Leidel, Henry, New York, N. Y. Bottle-stopper.	558,397	Apr. 14	1558	380	75	311
Leidgen, Nicolaus, Milwaukee, Wis. Leather-splitting machine.	554,723	Feb. 18	1735	407	74	861

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Leidgen, Nicolaus, Milwaukee, Wis. Electric railway.....	560,369	May 19	1710	389	75	1069
Leidgen, Nicolaus, Milwaukee, Wis. Lubricator.....	562,332	June 16	2224	541	75	1833
Leidiger, William E., Fall Creek, Wis. Potato-digger.....	555,251	Feb. 25	2576	604 605 606	74	1034
Leiger, George F., assignor, by mesne assignments, to himself and L. Benedict, Chicago, Ill. Pneumatic sheet separating and feeding machine.....	557,279	Mar. 31	3213	771 772	74	1800
Leigh, Arthur W., London, England. Rib-holder for umbrellas, &c.....	552,581	Jan. 7	133	37	74	27
Leigh, Richard A., assignor to F. W. Huestis, Boston, Mass. Rubber tire.....	573,671	Dec. 22	2866	677	77	1875
Leigh, William, Pittsburg, Pa. Pen-point extractor.....	556,468	Mar. 17	1802	419	74	1500
Leightner, Joseph H., assignor of one-half to J. C. Otis, Cincinnati, Ohio. Street-car fender.....	560,270	May 19	1711	389	75	1069
Leighton, Algernon S., Jr., assignor to E. R. Leighton, Boston, Mass. Folding bed and couch.....	564,565	July 21	2326	546	76	457
Leighton, Arthur M., assignor of one-half to M. J. Thomas, Everett, Wash. Last.....	566,692	Aug. 25	3112	760	76	1256
Leighton, Edward J., Boston, assignor to himself, and G. E. Belcher, Stoughton, Mass. Holdfast for boot or shoe stretchers.....	567,317	Sept. 8	1050	250	76	1488
Leighton, Eugene R. (See Leighton, Algernon S., Jr., assignor.)						
Leighton, George A., and J. H. Rice, assignors to Leighton Machine Company, Manchester, N. H. Circular automatic rib-knitting machine.....	573,275	Dec. 15	2057	501 502	77	1712
Leighton, George B., Dublin, N. H. Railway-crossing.....	562,627	June 23	2734	663	75	1944
Leighton Machine Company. (See Leighton and Rice, assignors.)						
Leinard, Edgar A., assignor of two-thirds to T. J. Cantwell and G. S. Binckley, Kenton, Ohio. Windmill-regulator.....	553,170	Jan. 14	1238	301	74	247
Leineweber, Herman, assignor of two-fifths to S. Freudenberg, Chicago, Ill. Bicycle attachment.....	566,083	Aug. 18	2068	503 504	76	1042
Leisenring, Henry G., Wayne, Nebr. Bridle-bit.....	567,033	Sept. 1	529	124	76	13-2
Leisi, Fr. d. Mount Vernon, Mo. Weighing-scale.....	567,483	Sept. 8	1325	319	76	1539
Leissler, John C., Jolly, Tex. Seed-planter.....	562,188	June 16	1995	482 483	75	1790
Leistko, William, Glencoe, Minn. Barrel-locking bolt for breakdown guns.....	564,525	July 21	2239	526	76	444
Leitch, James N., Amesbury, Mass. Carriage.....	556,191	Mar. 24	2444	574	74	1637
Leitch, James N., Amesbury, Mass. Carriage.....	562,136	June 16	1903	461	75	1772
Leitch, Meredith, Richmond, Va., assignor to Warren Webster & Company, Camden, N. J. Thermostatic valve.....	564,791	July 28	2717	645	76	548
Leith, John, assignor to Electro-Chemical Company, Limited, St. Helen's, England. Conductor for electrical decomposing tanks.....	556,254	Mar. 24	2445	574	74	1637
Leitner, Joseph F., assignor of one-third to F. T. Lockhart, Augusta, Ga. Ironing table.....	556,191	Mar. 10	1265	295	74	1382
Lekeux, Jules M. E., Düsseldorf, Germany. Machine for carbonizing and drying wool.....	568,691	Sept. 29	3466	829	76	1984
Leland, Charles, Mount Desert, Me. Animal-trap.....	571,773	Nov. 24	2326	570	77	1143
Leland & Faulconer Manufacturing Company. (See Leland, Henry M., assignor.)						
Leland, Henry M., assignor to Leland & Faulconer Manufacturing Company, Detroit, Mich. Trimming-machine.....	569,789	Oct. 20	1897	450	77	385
Leland, Herbert S., Baltimore, Md., assignor to Geuder & Paeschke Manufacturing Company, Milwaukee, Wis. Document-file.....	555,960	Mar. 19	825	196	74	1304
Lelardoux, Pierre, Denison, Tex. Automatic car-switching system.....	556,855	Mar. 24	2446	574 575 576	74	1637
Lemaire, Henri F. M., Paris, France. Machine for making pasted cigarettes.....	568,538	Sept. 29	3178	765 766	76	1929
Lemaire, Louis J., Alexandria, Ind. Regenerative gas-furnace.....	569,421	Oct. 13	1213	285	77	246
Lemay, Eugene, Menlo Park, Minn. Potato-digger.....	568,449	Sept. 29	3000	722	76	1897
Lemen, David S. (See Swearingen and Lemen.)						
Lemieux, Louis, assignor to L. Haas, New York, N. Y. Screw-cutting tool.....	555,869	Mar. 3	643	154	74	1248
Lemm, Adolph C., Clyde, Ohio. Shears.....	572,644	Dec. 8	977	235	77	1484
Lemon, Frank H., and A. B. Bartlett, assignors of one-half to J. M. Bracewell, Redondo Beach, W. T. Lambie, J. F. Humphreys, J. F. Francis, J. McGowan, J. R. Mathews, W. A. Henry, S. E. Hicks, L. J. Mathews, and C. Elton, Los Angeles, Cal. Wave-motor.....	568,487	Sept. 29	3060	736 737	76	1908
Lemon, Hugh A., Uniontown, Pa. Grip.....	560,417	May 19	1974	452	75	1114
Lemp, Hermann, Lynn, Mass., assignor to Thomson Electric Welding Company, of Maine. Apparatus for electric welding.....	553,923	Feb. 4	228	50	74	548
Lemp, Hermann, Lynn, Mass., assignor to Thomson Electric Welding Company, of Maine. Electrical registering instrument.....	556,425	Mar. 17	1722	401	74	1484
Lemp, Hermann, Lynn, Mass., assignor to Thomson Electric Welding Company, of Maine. Electric metal-working apparatus.....	564,331	July 21	1923	454	76	385
Lemp, Hermann, Lynn, Mass., assignor to Thomson Electric Welding Company, of Maine. Electric metal-working apparatus.....	564,792	July 28	2718	646	76	548
Lemp, Hermann, and W. B. Lewis, Lynn, Mass., assignors to Thomson Electric Welding Company, of Maine. Electric metal-working apparatus.....	556,426	Mar. 17	1724	401 402	74	1484
Lencke, John K., assignor to C. F. Quincy, Chicago, Ill. Slack-adjuster for brakes.....	568,777	Oct. 6	114	27	77	23
Lenhart, George E., St. Paul, Minn. Furnace.....	560,726	May 26	2552	586 587	75	1236
Lenker, Will G., Sunbury, Pa. Weighing-scale.....	573,015	Dec. 15	1629	391	77	1627
Lenney, Edward, Potsdam, N. Y. Vehicle-top.....	556,580	Mar. 17	1999	467	74	1536
Lenney, Edward, Potsdam, N. Y. Bracket.....	562,229	June 16	2054	496	75	1801
Lennig, Louis. (See Woychinske, Paponschek, and Lennig.)						
Lennon, Frank J., New York, N. Y. Covering for runways, &c.....	554,129	Feb. 4	612	138	74	617
Lenox, De Boss, Trenton, N. J. Inclined-railway water-chute.....	552,713	Jan. 7	369	96	74	72
Lenox Manufacturing Company. (See Schoonmaker, John D., assignor.)						
Lent, Cyrenus W., assignor of three-fourths to T. Swift, L. Schaffer, Oakland, and J. W. Swift, San Francisco, Cal. Odorless crematory.....	573,605	Dec. 22	2717	646	77	1848
Lentz, A. L. (See Kester, Thomas W., assignor.)						
Lentz, Henry P., assignor of one-half to C. W. Heyl, Columbus, Ohio. Tree extractor and carrier.....	572,902	Dec. 8	1408	341 540 541	77	1567
Lenz, Christian, and J. Stumpf, Berlin, Germany. Window.....	556,759	Mar. 24	2298	541 450 451	74	1609
Leonard, Arthur G., New York, N. Y. Manually-controlled electric block-signal system.....	554,884	Feb. 18	1914	450 451 143 144	74	895
Leonard, Arthur G., New York, N. Y. Magneto-electric generator.....	563,599	July 7	614	143 144	76	115
Leonard, Arthur G., New York, N. Y. Device for uniting cars.....	565,547	Aug. 11	1100	266	76	840
Leonard, Bennie C., Brockton, Mass. Bicycle-handle.....	561,329	June 2	466	116	75	1460
Leonard, Charles H., Grand Rapids, Mich. Portable house.....	552,535	Jan. 7	52	16	74	12
Leonard, Harry W., East Orange, N. J. Electric rheostat or heater.....	558,559	Apr. 21	1836	446	75	381
Leonard, Harry W., East Orange, N. J. Electric rheostat or heater.....	560,588	May 19	2257	517	75	1165

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Leonard, Harry W., East Orange, N. J. Apparatus for controlling electric motors	568,088	Sept. 22	2390	576	76	1767
Leonard, Harry W., New York, N. Y. Rheostat for electric motors	563,600	July 7	615	144	76	115
Leonard, Harry W., New York, N. Y. Electric rheostat	566,693	Aug. 25	3114	761	76	1256
Leonard, Harry W., New York, N. Y. Regulating electric motors	572,903	Dec. 8	1410	341	77	1568
Leonard, Harry W., assignor to Edison General Electric Company, New York, N. Y. Elec- tric-lamp socket	560,168	May 12	1511	342	75	981
Leonard, James A. (See Mallary and Leonard.)						
Leonard, Michael B., Richmond, Va. Device for railway signaling or other purposes	560,359	May 19	1864	{ 425 426 }	75	1094
Leonard, Michael B., Richmond, Va. Electrical apparatus and system	560,360	May 19	1866	426	75	1095
Leonard, Michael B., Richmond, Va., assignor to Electric Selector and Signal Company, of West Virginia. Electric signaling apparatus and system	560,619	May 19	2312	529	75	1175
Leonard, Patrick J., and W. Head, New York, N. Y. Lock	574,250	Dec. 29	3950	939	77	2087
Leonard, Thomas B., and L. Brick, Pittston, Pa. Cleaning apparatus	559,393	May 5	78	17	75	696
Leonard, William, Fort Scott, Kans. Animal-trap	556,994	Mar. 24	2629	634	74	1682
Leonhardt Pneumatic Safety Car Fender Company. (See Leonhardt, William, assignor.)						
Leonhardt, William, assignor to Leonhardt Pneumatic Safety Car Fender Company, Balti- more, Md. Car-fender	555,103	Feb. 25	2325	{ 552 553 }	74	987
Leppert, Lizzie, Chicago, Ill. Corset-steel reinforce	559,458	May 5	194	42	75	719
Lerch, Samuel P., Canton, Ohio. Miter-box	562,471	June 23	2461	597	75	1893
Leroi Furniture Manufacturing Company. (See Wolters, August W. H., assignor.)						
Lersch, Peter, Spring Garden, Pa. Steam-engine	567,747	Sept. 15	1766	{ 423 424 425 }	76	1638
Léry, Joseph B. de, New York, N. Y. Vapor-burner	565,471	Aug. 11	944	224	76	812
Leshner, Charles P., Lansing, Mich. Agricultural implement	564,432	July 21	2101	491	76	417
Leslie, Joseph C., St. Albans, Vt. Horse-power	562,006	June 16	1680	409	75	1732
Leslie, Robert, Toronto Junction, Canada. Rail-cleaner	555,454	Feb. 25	2950	701	74	1104
Lesperance, Alexander. (See Worrall and Lesperance.)						
Lessard, Jeremie, Cohoes, N. Y. Car-coupling	555,324	Feb. 25	2812	661	74	1079
Lesser, Max, Boston, Mass., assignor, by mesne assignments, of one-half to H. Hottinger, Cincinnati, Ohio. Table	563,668	July 7	731	172	76	137
Lesser, Max, assignor of one-half to H. Hottinger, Cincinnati, Ohio. Window	572,551	Dec. 8	806	193	77	1447
Lester, Howard W., East Hartford, assignor to F. C. Rockwell, Hartford, Conn. Saddle	562,965	June 30	3370	810	75	2088
Lester, Howard W., East Hartford, assignor of one-half to F. C. Rockwell, Hartford, Conn. Bicycle	565,472	Aug. 11	945	225	76	812
Lester, James F., Atlanta, Ga. Digester for cleaning vegetable and animal fibers	556,663	Mar. 17	2151	502	74	1564
Lester, James S., Atlanta, Ga. Faucet	562,628	June 23	2737	664	75	1944
Lettré, Phillip H., North Attleborough, Mass. Separable button	558,398	Apr. 14	1559	320	75	311
Lettré, Phillip H., North Attleborough, Mass. Tool-handle	565,360	Aug. 4	748	178	76	756
Leu, Otto. (See Keller, John D., assignor.)						
Leukart, Jacob, and W. W. Owen, assignors to New Columbus Watch Company, Columbus, Ohio. Watch-movement box	552,534	Jan. 7	53	16	74	13
Leuty, Annie D. (See McCaffrey, Joseph G., assignor.)						
Leuzinger, Otto, and A. A. Blom, assignors of one-third to S. H. McGuire, Annandale, Minn. Harness-buckle and trace attachment	559,900	May 12	1021	226	75	888
Levalley, Christopher W., Milwaukee, Wis. Conveyer	573,988	Dec. 29	3434	823	77	1994
Levasseur, Frank E., Sturgis, Mich. Belt-holder	565,473	Aug. 11	946	225	76	813
Levasseur, Léon. (See Patin and Levasseur.)						
Lever, Oswald, and W. S. Grundy, Philadelphia, Pa. Core or spindle for cop-tubes	563,043	June 30	3490	838	75	2110
Levi, Benno C. (See Harrison and Kilberg, assignors.)						
Levin, Adolph L., Denver, Colo. Coin-changing device	569,214	Oct. 13	856	202	77	179
Levin, Rudolph L., assignor of one-half to J. C. Johnson, Menominee, Mich. Fire and bur- glar alarm	555,173	Feb. 25	2439	578	74	1009
Leyinge, Elizabeth, assignor of one-half to S. A. Shields, Philadelphia, Pa. Folding chair for door-stoops	561,900	June 9	1498	362	75	1676
Levings, Enoc, Woodville, Tex. Power-motor	560,222	May 19	1618	365	75	1052
Levy, Dreyfus & Co., et al. (See Prah, Charles, assignor.)						
Levy, Jacques. (See Unger, John E., assignor.)						
Levy, Louis, New York, N. Y. Stay-guide for sewing-machines	560,296	May 19	1757	400	75	1076
Levy, Louis W., et al. (See Williams, Alfred G., assignor.)						
Levy, Max, and H. L. Bell, Philadelphia, Pa., assignors to said Levy. Photographic-plate holder	552,766	Jan. 7	484	120	74	91
Lewi, William G., Albany, N. Y. Switch	557,404	Mar. 31	3440	824	74	1844
Lewin, George W., Fall River, Mass. Dynamometer	557,133	Mar. 31	2933	702	74	1753
Lewin, George W., Fall River, Mass. Registering-dynamometer	560,271	May 19	1712	329	75	1069
Lewin, Maurice S., Philadelphia, Pa. Linen-rubber	574,099	Dec. 29	3632	867	77	2031
Lewinson, Julius N., New York, N. Y. Bicycle-skirt	572,429	Dec. 1	612	145	77	1394
Lewis, A. T., et al. (See Buchtel, Joseph, assignor.)						
Lewis, Alfred. (See Mobbs and Lewis.)						
Lewis, Allen R., Shelton, Wash. Water-motor	560,569	May 19	2259	{ 517 518 }	75	1166
Lewis, Alvin, Nora Springs, Iowa. Feed-trough	555,781	Mar. 3	483	116	74	1218
Lewis, C. J. (See Bunn, John, assignor.)						
Lewis, Caroline L. (See Mixer and Lewis.)						
Lewis, Caroline L., and C. E. Mixer, Boston, Mass. Hook	570,855	Nov. 3	794	182	77	786
Lewis, Charles F. (See Lincicum and Lewis.)						
Lewis, Charles F., and J. W. Clark, Russell, Pa. Self-measuring vessel	564,383	July 21	2013	472	76	401
Lewis, Edward O., et al. (See Miles, Melvin T., assignor.)						
Lewis, Evan J., Pittsburg, Pa. Coffee-mill holder	558,299	Apr. 14	1376	336	75	278
Lewis, Francis, Paterson, N. J. Harness connection for jacquard mechanism	561,801	June 9	1326	318	75	1645
Lewis, Franklin F. (See Lewis, Stephen B. and F. F.)						
Lewis, Fred H., Granville, Vt. Sap-spout	566,728	Aug. 25	3177	776	76	1266
Lewis, George, and C. E. Pointon, Wellington, New Zealand. Machine for making bread	571,774	Nov. 24	2387	{ 570 571 }	77	1144
Lewis, George, and C. E. Pointon, Wellington, New Zealand. Machine for molding dough	571,775	Nov. 24	2389	571	77	1144
Lewis, George D., and P. S. Bosworth, Newport, R. I. Step for vehicles	566,919	Sept. 1	317	74	76	1343
Lewis, George T., Philadelphia, Pa. Preparing oxid-of-zinc pigment	556,509	Mar. 17	1884	.....	74	1515
Lewis, George W., Chicago, Ill. Gas-engine	571,534	Nov. 17	1960	{ 466 467 }	77	1045
Lewis, Gustave A., assignor of one-half to C. Drouin, Troy, N. Y. Cane-seat	558,187	Apr. 14	1201	293	75	244
Lewis, Harry A., Norristown, assignor of nine-twentieths to J. C. Yerkes, Reading, Pa. Fuse-holder and lightning-arrester	554,130	Feb. 4	614	138	74	617
Lewis, Harry J., assignor of one-half to W. B. Neely, Rusk, Tex. Fire-dog	567,786	Sept. 15	1826	438	76	1650

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Lewis, Herbert R. (See Tiesel, Leonard C., assignor.)						
Lewis, Howell N., Green Cove Springs, Fla. Drift-bolt or railway-track-spike drawer.	556,469	Mar. 17	1804	419	74	1500
Lewis, Howell N., Green Cove Springs, Fla. Tool for drawing spikes or bolts.	558,968	Apr. 28	2553	619	75	530
Lewis, Isaac W., Portland, Oreg. Sash lock.	559,587	May 5	400	96	75	761
Lewis, Isaac W., Washington, D. C. Hitching-post.	566,196	Aug. 18	2259	553	76	1078
Lewis, James M., assignor of one-half to A. W. Brown, Alpena, Mich. Bicycle-bearing cleaner.	563,601	July 7	617	144	75	116
Lewis, James W., and S. E. Kochendarfer, assignors of one-third to F. H. Russ, Hollidaysburg, Pa. Oil-cloth, &c. cutter.	552,845	Jan. 7	646	159	74	122
Lewis, John E., Reading, Pa. Axle-nut for vehicles.	569,215	Oct. 13	861	203	77	180
Lewis, John F., Scranton, Pa. Lubricator.	568,407	Sept. 29	2930	705	76	1884
Lewis, John T., Catharpin, Va. Gate-latch.	559,296	Apr. 28	3179	768	75	648
Lewis, Joseph M. (See Apple, John, assignor.)						
Lewis, Lee D. (See Brobeck and Lewis.)						
Lewis, Llewelyn J., et al. (See Eberman, Joseph W., assignor.)						
Lewis, Lyman S., East Elkport, assignor of one-half to W. L. Kords, Guttenberg, Iowa. Well-drill.	566,989	Sept. 1	453	105	76	1367
Lewis, Lyman S., assignor of one-half to W. L. Kords, Guttenberg, Iowa. Car-coupling.	571,673	Nov. 17	2187	527	77	1087
Lewis, Lyman S., assignor of one-half to W. L. Kords, Guttenberg, Iowa. Railway-switch.	571,674	Nov. 17	2189	527	77	1087
Lewis, Moses. (See Ram and Lewis.)						
Lewis, Orhanuel D., Joliet, Ill. Machine for polishing tin andterne plates.	571,071	Nov. 10	1165	272	77	883
Lewis, Orlando E. (See Flint and Howard, assignors.)						
Lewis, Overton H., Richards, Mo. Hay-fork.	572,490	Dec. 1	698	167	77	1411
Lewis, Russell H., assignor of one-half to O. N. Bender, Providence, R. I. Clip for supporting electric cables.	553,194	Jan. 14	1287	311	74	255
Lewis, Russell H., assignor of one-half to O. N. Bender, Providence, R. I. Cable-clip.	564,433	July 21	2103	491	76	418
Lewis, Samuel T., Philadelphia, Pa. Elevator.	568,576	Sept. 29	3246	781	76	1942
Lewis, Samuel W., Brooklyn, N. Y. Flush-tank apparatus.	552,535	Jan. 7	54	16	74	13
Lewis, Samuel W., Brooklyn, N. Y. Water-closet and urinal.	515,455	Feb. 25	2951	702	74	1104
Lewis, Samuel W., Brooklyn, N. Y. Washbasin, bath, sink, &c.	568,261	Sept. 22	2686	644	76	1823
Lewis, Sherwood R., Haines Falls, N. Y. Crosscut-saw.	563,669	July 7	733	173	76	137
Lewis, Stephen B. and F. E., Janesville, Wis. Waistband for nether garments.	570,317	Oct. 27	2869	680	77	580
Lewis, W. T., et al. (See Yeakley, Melvin A., assignor.)						
Lewis, Walter F. (See White, Louis L., assignor.)						
Lewis, Warren B. (See Lemp and Lewis.)						
Lewis, William. (See Stanton and Lewis.)						
Lewis, William A. (See Bartel and Lewis.)						
Lewis, William B., Wheeling, W. Va. Journal bearing or brass.	552,767	Jan. 7	486	120	74	92
Lewis, William H. (See Butts, Elias H., assignor.)						
Lewis, William H., Huntington, N. Y. Print-mounting roller.	563,044	June 30	3490	838	75	2111
Lewis, William H., Rome, N. Y. Lawn-rake.	567,602	Sept. 15	1532	366	76	1590
Lewthwaite, George W., Greenwich, N. Y. Paper-making machine.	567,484	Sept. 8	1326	319	76	1539
Lewty, Thomas, Manchester, England, assignor to H. H. Gibbs, Indianapolis, Ind. Elastic-tread horseshoe.	558,455	Apr. 14	1671	402	75	333
Lexow, Allan. (See Quinn, Patrick H., assignor.)						
Ley, John. (See Randall, Joseph S., assignor.)						
Leyner, John G., Denver, Colo. Cylinder-head for engines.	561,676	June 9	1091	262	75	1601
Leyner, John G., Denver, Colo. Bicycle-frame.	564,627	July 23	2441	574	76	498
Leyner, John G., Denver, Colo. Safety rotary feed for rock-drills.	565,474	Aug. 11	947	225	76	813
Leyner, John G., Denver, Colo. Direct-acting engine.	567,682	Sept. 15	1654	399	76	1617
Leyner, John G., Denver, Colo. Rotary feeding device for rock-drills.	568,099	Sept. 22	2394	577	76	1768
Lhote, George, New Orleans, La. Planing and resawing machine.	569,288	Oct. 13	982	236	77	203
Libbey, Hosea W., Boston, Mass. Typograph.	555,519	Mar. 3	58	13	74	1141
Libbey, Hosea W., Boston, Mass. Wheel for bicycles.	560,509	May 19	2123	486	75	1141
Libbey, Hosea W., Boston, Mass. Roller-skate.	566,694	Aug. 25	3115	761	76	1256
Libbey, Hosea W., Boston, Mass. Apparatus for collecting mail or other matter.	567,718	Sept. 15	1714	411	76	1628
Libbey, Hosea W., Boston, Mass. Dynamo-electric machine.	567,719	Sept. 15	1716	412	76	1629
Libbey, Hosea W., Boston, Mass. Cotton-gin and wool-burring machine.	572,263	Dec. 1	300	72	77	1336
Libbey, Hosea W., Boston, Mass. Speaking-tube.	572,264	Dec. 1	302	72	77	1337
Libby, Elbridge G., Everett, Mass. Turbine.	563,194	June 30	3768	902	75	2163
Libby, George H. (See Poor, George H., assignor.)						
Lichtenberger, Albert M. (See Arnold and Lichtenberger.)						
Lichtenhein, Louis, Amsterdam, N. Y. Glove.	566,589	Aug. 25	2956	721	76	1927
Lichtenstein, Louis, Wilmington, Del. Leather-staking machine.	553,682	Jan. 28	2137	506	74	442
Lichtenstein, Louis, Wilmington, Del. Leather-staking machine.	553,683	Jan. 28	2139	506	74	442
Lichtenstein, Salomon, Neuwed, Germany. Transportable bandaging-table.	561,514	June 2	801	195	75	1522
Lichtwadt, A. C. (See Wilson, George T., assignor.)						
Liddell, John D., and W. H. Dashiels, Jr., Baltimore, Md. Device for operating vertically-sliding doors of elevator-shafts.	559,180	Apr. 28	2963	715	75	608
Liddell, Walter S., Charlotte, N. C. Baling-press.	566,460	Aug. 25	2771	674	76	1191
Liddell, William, Brooklyn, N. Y., assignor to Eastern Paper Bag Company, of Connecticut. Paper-bag machine.	558,969	Apr. 28	2554	619	75	531
Liddell, William, Brooklyn, N. Y., assignor to Eastern Paper Bag Company, of Connecticut. Paper-bag machine.	564,288	July 21	1855	434	76	373
Lidke, Edward L., assignor to F. M. Rakestraw, Toledo, Ohio. Spring-doubletree.	557,332	Mar. 31	3305	793	74	1818
Lieb, Charles A., New York, N. Y., assignor to General Electric Company, of New York. Spring supporting-ear for trolley-wires.	553,858	Feb. 4	84	17	74	521
Liebau, Gustav, New York, N. Y. Wall or partition.	564,205	July 21	1716	402	76	349
Liebendorfer, Albert C., Ottawa, Ill. Drilling-machine.	554,940	Feb. 18	2010	476	74	913
Liebenstein, Isabelle, et al. (See Macklin, Athol B., assignor.)						
Lieber, Albert, Indianapolis, Ind. Hoop-driving machine.	559,856	May 12	925	205	75	871
Liebrecht, Wilhelm. (See Beck and Liebrecht.)						
Liebreich, Hans, New York, N. Y. Billiard-cue chalk apparatus.	554,625	Feb. 11	1472	344	74	794
Liebreich, Kathie, assignor of one-third to B. Sauder, New York, N. Y. Hat-fastener.	557,405	Mar. 31	3441	824	74	1845
Liebreich, Kathie, assignor of one-third to B. Sauder, New York, N. Y. Hair-holder.	566,779	Sept. 1	75	19	76	1294
Liesenberg, Arno, New York, N. Y. Cigar-holder.	560,510	May 19	2124	487	75	1141
Lietz, Adolph, San Francisco, Cal. Mathematical instrument.	557,333	Mar. 31	3306	793	74	1818
Lienkfaer, F. H. (See Stafford, George A., assignor.)						
Lievre, Isidore. (See Fricke, Charles, assignor.)						
Liftchild, Charles. (See Hoffman, Charles, assignor.)						
Liggett, William K. (See Knauss and Liggett.)						
Light Fireproofing Company. (See Eastman, Joseph, assignor.)						
Lighthall, Almerin H., New York, N. Y. Railway system.	553,622	Jan. 28	2034	481	74	424

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Lighthouse, John C., Rochester, N. Y. Pneumatic tire	539,297	Apr. 28	3180	768	75	648
Likly & Co., Henry. (See Vogt, John W., assignor.)						
Lillard, James F. (See Arnold, Lillard, and Sterling.)						
Lilley, Henry, Philadelphia, assignor to Wrought Iron Specialty Company, Royersford, Pa. Machine for making rings or bands	561,233	June 2	273	68	75	1420
Lillie, Samuel M., Philadelphia, Pa. Automatic density-regulator	559,857	May 12	929	207	75	871
Lillja, Svante E., assignor to D. M. Sechler Carriage Company, Moline, Ill. Attachment for vehicle-boots	563,045	June 30	3491	839	75	2111
Lilly, Charles E. (See Flagg and Lilly.)						
Lilly, Edward B., Farnhamville, Iowa. Pipe-wrench	554,885	Feb. 18	1918	451	74	896
Limberg, W. H., et al. (See Layton, Edward L., assignor.)						
Liming, John, Philadelphia, Pa. Hydraulic air-compressor	569,929	Oct. 20	2120	504	77	427
Lincicum, William, and C. F. Lewis, Colorado City, Colo. Safety giant-powder magazine	563,933	July 14	1220	286	76	243
Lincks, John J., New Orleans, La. Window-screen	553,006	Jan. 14	952	230	74	192
Lincoln, Amasa E., Stoughton, Mass. Machine for cutting soles	560,224	May 19	1625	369 370	75	1053
Lincoln, Clinton E., Morehead City, N. C. Spool-holder	564,434	July 21	2103	492	76	418
Lincoln, Horatio B., et al. (See Brown, Franklin, assignor.)						
Lincoln, Isaac M., Providence, R. I. Attachment for bicycles	561,262	June 2	312	79	75	1429
Lincoln, Louis R. (See Crane, Newton, assignor.)						
Lincoln Sewing Machine Company. (See Fowler and Warren, assignors.)						
Lincoln, Theodore M., Hartford, Conn. Clip for cloth-tentering machines	553,859	Feb. 4	84	17	74	521
Lind, John, Astoria, Ill. Vehicle-wheel	566,780	Sept. 1	76	19	76	1294
Lindahl, Caleb. (See Lindahl, Josua and C.)						
Lindahl, John T., Stockholm, Sweden. Massage apparatus	565,475	Aug. 11	950	225 226	76	814
Lindahl, Josua, Chicago, Ill., and C. Lindahl, National Military Home, Los Angeles county, Cal. Zodiacal chart	573,091	Dec. 15	1769	425	77	1654
Linde, Frederick, and P. A. Wutke, Donaldsonville, La. Car-coupling	561,006	May 26	3041	700	75	1330
Lindemann, August, Milwaukee, Wis. Pan	566,532	Aug. 25	2864	696	76	1209
Lindemeyer, Philip, Jr., Baltimore, Md. Roller-mill for grinding ink, &c	566,920	Sept. 1	313	74	76	1343
Lindemeyer, Philip, Jr., Baltimore, Md. Picture-support	568,090	Sept. 22	2396	577	76	1768
Lindenau, Eric W., Joliet, Ill. Employee's time-recorder	571,272	Nov. 10	1518	358 359 360	77	949
Lindenberg, Carl F., executor. (See Brehmer, Hugo, assignor.)						
Lindfors, Erick M., assignor of one-fourth to L. W. Jernberg, Cleveland, Ohio. Rotary engine	567,104	Sept. 1	659	153 154	76	1407
Lindgren, Bror J., and A. H. Whatley, assignors to Rice & Sargent Engine Company, Providence, R. I. Stop-motion for governors	563,862	July 14	1087	256	76	219
Lindley, Alva A., Oskaloosa, Iowa. Brake-shoes	573,227	Dec. 15	2010	482	77	1699
Lindley, Zachary M., assignor of thirteen-sixteenths to L. J. Douglass, W. H. Sterrett, and B. M. Hickey, Carthage, Mo. Washing-machine	568,361	Sept. 29	2856	687	76	1871
Lindner, Ernst, New York, N. Y. Gas-cock	566,590	Aug. 25	2956	722	76	1227
Lindquist, Carl E., Hendrum, Minn. Egg-tester	558,290	Apr. 14	1377	336	75	278
Lindquist, John W., assignor of one-half to J. Bassler, Galesburg, Ill. Check-row corn-planter	560,908	May 26	2886	662 663	75	1300
Lindsay, Archibald L., et al. (See Chapin, William R., assignor.)						
Lindsay, Archibald L., assignor of two-thirds to W. R. Chapin, Wyoming, and J. W. Howarth, Scranton, Pa. Thill-tug	572,552	Dec. 8	808	194	77	1447
Lindsay, Charles R., Jr., Philadelphia, Pa., assignor to Pennsylvania Globe Gas Light Company, of Pennsylvania. Street-lamp	571,005	Nov. 10	1053	246	77	863
Lindsay, John, Millbury, Mass. Sprocket-wheel	569,216	Oct. 13	862	203	77	180
Lindsay, Joseph, Dublin, Ireland. Elastic sectional tire for vehicle-wheels	573,471	Dec. 22	2492	591	77	1804
Lindsay, Robert. (See Barstow and Lindsay.)						
Lindsay, Robert H., Detroit, Mich. Pearl-button machine	553,500	Jan. 21	1815	431	74	367
Lindsay, Thomas J., Lafayette, Ind. Gear-cutting machine	572,207	Dec. 1	192	47, 48	77	1315
Lindsay, William B., W. E. Tonner, and A. Lowmiller, Steubenville, Ohio. Filter and cleaner	555,104	Feb. 25	2327	553	74	988
Lindsay, William B., W. E. Tonner, and A. Lowmiller, Steubenville, Ohio. Filter and cleaner	575,760	Aug. 11	1490	364	76	913
Lindsey, Julian R., Fort Robinson, Nebr. Bottle	572,058	Nov. 24	2892	683	77	1239
Lindsey, Thomas, Wilmerding, Pa. Air-brake	561,596	June 9	960	229	75	1577
Lindstedt, Herman M., Sag Harbor, N. Y. Apparatus for inserting springs in bicycle-tires	565,476	Aug. 11	952	226	76	814
Lindstrand, Charles F., Moline, Ill. Disk harrow	556,356	Mar. 17	1601	374	74	1461
Linegar, Charles. (See Simmonds and Linegar.)						
Lines, John, assignor to Scovill Manufacturing Company, Waterbury, Conn. Portable oil-can	554,941	Feb. 18	2011	476	74	913
Lines, John, assignor to Scovill Manufacturing Company, Waterbury, Conn. Lamp-burner	562,630	June 23	2740	664	75	1945
Lines, John, and A. J. Wolff, assignors to Scovill Manufacturing Company, Waterbury, Conn. Portable air-pump	556,153	Mar. 10	1194	279	74	1370
Linger, William H., Washington, D. C. Spring bed-bottom	557,839	Apr. 7	563	135 136	75	106
Linindoll, Charles C., Fort Edward, N. Y. Tap or other valve	555,174	Feb. 25	2441	579	74	1010
Link-Belt Engineering Company. (See Dodge, James M., assignor.)						
Link-Belt Engineering Company. (See Fry, Charles A., assignor.)						
Link-Belt Engineering Company. (See Smith, Augustus, assignor.)						
Link-Belt Machinery Company. (See Peck, Staunton B., assignor.)						
Link-Belt Machinery Company. (See Thompson, Alexander M., assignor.)						
Link, John A., assignor of nine-sixteenths to C. Carrington and A. R. Mulloony, Washington, D. C. Mucilage	565,361	Aug. 4	749	.....	76	756
Link, William H., New Richmond, Wis. Combined table and bath-tub	566,197	Aug. 18	2261	553	76	1079
Linke, Annie. (See Linke and Gould, assignors.)						
Linke, Theodore, New York, N. Y. Liquid-filter	554,280	Feb. 11	868	200	74	680
Linke, Theodore, New York, N. Y. Self-cleaning liquid-filter	560,511	May 19	2125	436	75	1141
Linke, Theodore, New York, N. Y. Valve	568,858	Oct. 6	249	58	77	48
Linke, Theodore, and H. E. Gould; said Gould assignor to A. Linke, New York, N. Y. Filter for liquids	554,279	Feb. 11	867	200	74	680
Linke, Theodore, and H. E. Gould; said Gould assignor to A. Linke, New York, N. Y. Combined faucet and filter	554,281	Feb. 11	869	200	74	681
Linkenbach, Christian, St. Paul, Minn. Clasp	558,822	Apr. 21	2292	557	75	464

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Linn, Allen B. (See Friant and Linn.)						
Linn, Allen B. (See Linn, Allen D. and A. B.)						
Linn, Allen D., assignor to Grand Rapids School Furniture Company, Grand Rapids, Mich. School seat and desk	567,105	Sept. 1	661	154	76	1407
Linn, Allen B., assignor to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper	554,827	Feb. 18	1811	424	74	878
Linn, Allen B., assignor to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper	557,280	Mar. 31	3220	773	74	1801
Linn, Allen D. and A. B., assignors to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper	553,812	Jan. 28	2354	560	74	483
Linn, Allen D. and A. B., assignors to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper	554,826	Feb. 18	1809	421	74	877
Linn, Allen D. and A. B., assignors to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper	562,771	June 23	2975	720	75	1991
Linn, Allen D. and A. B., assignors to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper	571,451	Nov. 17	1808	432	77	1018
Linn, Allen D., and L. Gohlke, assignors to Grand Rapids School Furniture Company, Grand Rapids, Mich. Chair	557,406	Mar. 31	3442	824 825	74	1845
Linn, Clarence. (See Boluss, Alfred R., assignor.)						
Linn, John B., Cleveland, assignor of one-half to O. S. Kelly, Springfield, Ohio. Electric conduit railway	565,624	Aug. 11	1238	298 299 300	76	865
Linnell, Moses A., Moosup, Conn. Sprocket drive-chain	562,629	June 23	2738	664	75	1945
Linou, Joseph L., Narbonne, France. Car-coupling	567,485	Sept. 8	1327	320	76	1539
Linguist, Maurice F., New York, N. Y. Corset	564,020	July 14	1374	319	76	271
Linguist, Peter M., Elsmore, Kans. Gate	558,188	Apr. 14	1202	293	75	245
Linsley, Thomas. (See Pouk, John B., assignor.)						
Linstrom, Charles, Vicksburg, Miss. Locomotive-truck spring-hanger	558,399	Apr. 14	1560	380	75	311
Linstrom, Charles, Vicksburg, Miss. Journal-box	559,728	May 5	632	151	75	803
Linstrom, Charles, Vicksburg, Miss. Eccentric	565,169	Aug. 4	410	99	76	693
Linstrom, Charles, Vicksburg, Miss. Suction-pipe for tanks	568,620	Sept. 29	3333	798	76	1959
Linstrom, Charles, Vicksburg, Miss. Boiler check-valve	573,788	Dec. 22	3043	721	77	1909
Lint, Amos. (See Whitehead, Oliver W., assignor.)						
Linticum, Asa S., Wellham's Cross Roads, Md. Combined furrower, marker, and coverer	567,904	Sept. 15	2019	484	76	1688
Lintner, William T., Troy, N. Y., and W. C. Bul', Bennington, Vt. Shirt and drawers stretcher	558,085	Apr. 11	1037	253	75	212
Linton, Harrison, Des Moines, Iowa. Kitchen-cabinet	565,477	Aug. 11	953	226 227	76	814
Linton, Hugh, Pawtucket, R. I. Machine for calendering paper or other material	555,385	Feb. 25	2813	661	74	1079
Linton, Joseph H. (See Chapman, Borger, and Linton.)						
Linton, William D., Vernon, Ill. Churn	554,784	Feb. 18	1737	407	74	862
Lip Garment Guard Company. (See Leeds, Louise M., assignor.)						
Lipe, Charles E., deceased, Syracuse, N. Y.; M. L. Lipe administratrix. Boring and fac- ing machine	555,013	Feb. 18	2145	511 512	74	937
Lipe, Charles E., assignor to H. A. Moyer, Syracuse, N. Y. Hub-boring machine	555,253	Feb. 25	2581	606	71	1035
Lipe, Mary L., administratrix. (See Lipe, Charles E.)						
Lipp, Louis, Cincinnati, Ohio. Float-operated cock	557,840	Apr. 7	565	136	75	106
Lippard, James H., assignor of two-thirds to W. M. McAllister, T. H. MacAllister, and O. H. Martin, Rockford, Ill. Dish-cleaner	568,202	Sept. 22	2584	622	76	1803
Lippe, Alfred, New York, N. Y. Combination-tool	561,597	June 9	961	230	75	1577
Lipphardt, William, and J. Blumenberg, Martins Ferry, Ohio. Feeding mechanism for bot- tle-sealing machines	553,757	Jan. 28	2267	537	74	468
Lipphardt, William, and J. Blumenberg, Martins Ferry, Ohio. Magazine-feeder for bottle- sealing machines	553,758	Jan. 28	2270	537 538	74	468
Lippincott, Alpheus C., New York, N. Y. Planimeter	569,107	Oct. 6	668	155	77	127
Lippincott, Fisher H., Philadelphia, Pa., assignor to American Soda Fountain Company, Trenton, N. J. Device for supplying salts for soda fountains	574,156	Dec. 29	3733	890	77	2048
Lippitt, Charles N., Beloit, Wis. Hasp-lock	563,602	July 7	619	145	76	116
Lippmann, Philipp, New York, N. Y. Corset	561,901	June 9	1499	362	75	1678
Lippold, Charles J., Washington, D. C. Support for weighing-scales	567,106	Sept. 1	662	155	76	1408
Lippold, Charles J., Washington, D. C. Weighing-scale	567,107	Sept. 1	664	155	76	1408
Lippy, David, Mansfield, Ohio. Pump	565,548	Aug. 11	1103	266	76	841
Lippy, David, Mansfield, Ohio. Pump	574,251	Dec. 29	3952	930	77	2088
Lippy, David, Mansfield, Ohio. Pump	574,252	Dec. 29	3953	940	77	2088
Lippy, David, and D. L. Zahniser, Mansfield, Ohio. Device for preventing refilling bottles	558,189	Apr. 14	1204	291	75	245
Lippy, David, I. E. Fintrock, G. A. Rinehart, and D. R. Francis, Mansfield, Ohio. Trolley	564,793	July 28	2721	647	76	548
Lippy, David, I. E. Fintrock, G. A. Rinehart, and D. R. Francis, Mansfield, Ohio. Trolley	564,794	July 28	2722	647	76	548
Lippy, David, I. E. Fintrock, G. A. Rinehart, and D. R. Francis, Mansfield, Ohio. Trolley	564,795	July 28	2723	647	76	549
Lipscomb, Herbert E., Richmond, Va. Electric time-alarm	565,761	Aug. 11	1491	364 365	76	913
Lishman, Walter W. L. (See Jefferson, Lishman, and Clapham.)						
Lisk, David A., Clifton Springs, N. Y. Bottom for metallic vessels	555,457	Feb. 25	2957	703	74	1106
Lisk, Sidney J., Clifton Springs, N. Y. Pail-bottom	571,380	Nov. 17	1696	404	77	997
Lister, John T., Cleveland, Ohio. Incandescent lamp	568,262	Sept. 22	2688	644	76	1823
Lister, William, and J. Cardwell, Sunderland, England. Machine for cutting tapered grooves in wood, metal, &c	559,858	May 12	933	207 208	75	872
Lita, Priegnitz, Germany. Combined pencil-box and T-square	562,486	June 23	2483	602	75	1897
Litchfield, Albert C., et al. (See Batchelder, William E., assignor.)						
Litchfield, Isaac W., and T. W. Sanford, Warwick, N. Y. Tread for bicycle-pedals	558,400	Apr. 14	1561	381	75	311
Litt, Edward J., Rostock, Canada. Fence-wire stay	561,407	June 2	609	152	75	1486
Little, Charles H., Melrose, assignor to R. F. Herrick, trustee, Milton, Mass. Cash-register	571,728	Nov. 17	2284	548	77	1105
Little, Edwin, assignor of one-half to S. H. Sayre, Hampton, Va. Feed-cutter	553,925	Feb. 4	232	50	74	548
Little, Francis C., Portland, Oreg. Apparatus for utilizing wave-power	570,223	Oct. 27	2546	628 629	77	540
Little, James, Evansville, Ind. Cotton-press	553,924	Feb. 4	231	50	74	548
Little, John W., San Francisco, Cal. Bicycle-brake	561,007	May 26	3043	700	75	1330
Little, Joseph A., assignor of one-half to H. P. Simpson, Lawrence, Mass. Expandible shell-reamer	555,905	Mar. 3	711	171	74	1262
Little, Orton C., assignor of one-half to M. M. Scholtz, Menasha, Wis. Weather-strip	569,582	Oct. 13	1506	355	77	800
Little, Percy, Northumberland, Pa. Barrel-making machine	559,859	May 12	925	208	75	872
Little, Thomas E. (See Sparling, William, assignor.)						
Littlefield, George B., San Francisco, Cal. Stove-lid	570,937	Nov. 10	942	219	77	843
Littlefield, Howard A. (See Fiske and Littlefield.)						
Littlefield, Irving O., assignor of one-half to J. T. Bartlett, Raymond, N. H. Tack-holder for lasts	562,631	June 23	2741	664	75	1945

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Littlehales, George W., Washington, D. C. Engraving-machine	561,677	June 9	1093	{ 262 263	75	1601
Littlejohn, Alexander I., <i>et al.</i> (See Entwistle, William G., assignor.)						
Littlejohn, Charles F., Bridgeport, Conn. Steam-engine	564,090	July 14	1506	{ 352 353	76	296
Littlejohn, Charles F., Bridgeport, Conn. Placket-fastener	566,270	Aug. 18	2369	580	76	1100
Littlewood, Walker, Leeds, England. Apparatus for color classing and designing for manu- facturing textile goods	553,007	Jan. 14	953	{ 230 231	74	193
Littleworth, Malcolm C., assignor of four-fifths to W. C., W. A., and M. A. Gould, and E. C. Lake, Duluth, Minn. Safety device for elevators	555,456	Feb. 25	2955	{ 702 703	74	1105
Livengood, Winfield S., Kansas City, Kans. Hay-press	568,203	Sept. 22	2585	622	76	1803
Livengood, Winfield S., Kansas City, Mo. Whipping attachment for horse-powers	568,778	Oct. 6	117	27, 28	77	24
Livengood, Hiram J., Jackson, Mich. Dust-collecting machine. (Reissue)	11,528	Mar. 31	3660	876	74	1885
Livermore, Darwin O., Los Gatos, Cal. Sash-lock	570,670	Nov. 3	472	110	77	726
Livermore, John W., Kingsbury, Cal. Feeder for threshing-machines	570,257	Oct. 27	2714	{ 645 646	77	553
Livesey, Robert H., and W. Squire, Fall River, Mass. Pitman for looms	561,234	June 2	274	68	75	1420
Livingston, Andrew. (See Kelley and Seeton, assignors)						
Livingston, Andrew, <i>et al.</i> (See Kelley, Edward W., assignor.)						
Livingston, Annie, New York, N. Y. Adjustable garment-pattern	556,856	Mar. 24	2451	{ 576 577	74	1638
Livingston, Edward, assignor to himself and H. M. Isaacson, New Orleans, La. Automatic fire-extinguisher	555,386	Feb. 25	2814	662	74	1079
Livingston, Joe, <i>et al.</i> (See Jackson, William W., assignor.)						
Livingston, Joseph. (See Petit, Ademor N., assignor.)						
Livingstone, William, Flushing, N. Y. Mechanical movement	562,086	June 16	1827	{ 444 445	75	1758
Livoni, John A. O., Marion, Kans. Power-converter mechanism	566,198	Aug. 18	2262	553	76	1079
Livor, Henry M. (See Waring, John B., assignor.)						
Livsey, Charles P., Norwich, assignor to E. H. Jacobs Manufacturing Company, Danielson- ville, Conn. Lug-strap for looms	574,204	Dec. 29	3859	920	77	2070
Ljungström, Birger, Stockholm, Sweden. Driving mechanism for velocipedes	556,545	Mar. 17	1944	{ 453 454	74	1525
Ljungström, Birger, Stockholm, Sweden. Vehicle with three or more wheels	561,330	June 2	467	{ 116 117	75	1460
Ljungström, Birger, Stockholm, Sweden. Mechanism for working velocipedes	571,197	Nov. 10	1387	324	77	924
Ljungström, Fredrik, Stockholm, Sweden. Mechanism for changing points of application of loads on treadles or levers	561,331	June 2	469	117	75	1461
Ljungström, Fredrik, Stockholm, Sweden. Treadle mechanism	573,016	Dec. 15	1631	{ 391 392	77	1627
Ljungstrom, Fredrik, Stockholm, Sweden. Steam generator and condenser	574,157	Dec. 29	3734	{ 890 891	77	2049
Ljungström, Lars G., assignor of one-half to W. G. C. Harmsen, Stockholm, Sweden. Ro- tary steam-engine	571,381	Nov. 17	1697	404	77	997
Lloyd & Co., Andrew J. (See Closs, Peter, assignor.)						
Lloyd-Davies, William A. (See Taylor, Jeremiah, assignor.)						
Lloyd, Edwin L., Philadelphia, Pa. Bottle-stopper	565,362	Aug. 4	750	179	76	756
Lloyd, George K., Brooklyn, N. Y. Umbrella-case	563,863	July 14	1088	256	76	219
Lloyd, John T., assignor to A. Biever, New York, N. Y. Vulcanizing wood	566,591	Aug. 25	2958	722	76	1227
Lloyd, Marshall B. (See Johnson, White, and Lloyd.)						
Lloyd, Marshall B. (See White and Lloyd.)						
Lloyd, Robert M., New York, N. Y. Connection for storage batteries	560,272	May 19	1715	390	75	1069
Lloyd, William S. (See Velasco, Adolph G., assignor.)						
Lobach, Walter, Chicago, Ill. Electrical production of chemical reactions	563,288	July 7	90	22	76	19
Lobach, Walter, assignor of one-half to F. B. Badt, Chicago, Ill. Conduit electric railway	560,807	May 26	2692	{ 618 619	75	1263
Lobdell, William W., and R. C. Tolmie, Wilmington, Del. Anchoring cores in molding- flasks	564,896	July 28	2884	691	76	579
Lobe, Bart, assignor of one-half to M. Callaban, Buffalo, N. Y. Protecting-cover for boats	558,401	Apr. 14	1562	381	75	311
Lobe, Bart, assignor to himself and G. Duchscherer, Buffalo, N. Y. Hanger for shafting	560,297	May 19	1759	401	75	1076
Lobner, William B. (See Ranson, George O., assignor.)						
Lochen, Frances M., Milwaukee, Wis. Rotary shelf for refrigerators	565,908	Aug. 18	1767	430	76	984
Locher, Adolph J. (See Young and Locher.)						
Locher, Charles H., Rockbridge county, Va. Cableway for dumping purposes	570,429	Oct. 27	3065	{ 726 727	77	617
Locher, Charles H., Glasgow, Va. Cableway for conveying and dumping rock, &c	572,491	Dec. 1	699	{ 167 168	77	1412
Lochman, Emil, St. Louis, Mo. Wood-carving machine	571,535	Nov. 17	1963	{ 467 468 469	77	1045
Lochmann, Oskar P., Leipsic, Germany. Note-disk holder	573,017	Dec. 15	1632	392	77	1628
Lochmann, Oskar P., Leipsic, Germany. Music-box	573,018	Dec. 15	1633	392	77	1628
Locke, Charles S., Joliet, Ill. Automatic attachment for feed-boxes	566,778	Sept. 1	74	19	76	1294
Locke, Frank, and D. Kennedy, Silver Creek, Minn. Wind-wheel	561,117	June 2	68	18	75	1380
Locke, Fred M., Victor, N. Y. Insulator	573,092	Dec. 15	1770	{ 425 426	77	1655
Locke, Harvey W. (See Carlton and Locke.)						
Locke, Howard G., Weymouth, assignor to O. A. Miller, Brockton, Mass. Last	557,210	Mar. 31	3091	741	74	1778
Locke, Howard G., Weymouth, assignor to Brockton Last Co., Brockton, Mass. Last	559,492	May 5	246	56	75	730
Locke, James B., Boston, Mass. Sandpapering-machine	567,905	Sept. 15	2021	485	76	1688
Locke, James P., Toledo, Ohio. Flushing-tank for water-closets	565,997	Aug. 18	1940	469	76	1019
Locke, Joseph. (See Croskey and Locke.)						
Locke, William F., assignor of one-half to J. H. Sargent and P. Gallaher, New Whatcom, Wash. Child's seat for bicycles	557,841	Apr. 7	566	136	75	107
Lockerby, Wallace H., Waverly, N. Y. Ball-caster	555,175	Feb. 25	2443	579	74	1010
Lockert, James W., Richfield, Ohio. Means for attaching snap-hooks to straps	554,282	Feb. 11	870	200	74	681
Lockhart, Fred T. (See Leitner, Joseph F., assignor.)						
Lockhart, James L., Dayton, Ohio. Boiler-tube cleaner	564,932	July 28	2961	705	76	593
Lockhart, Robert P., Patoka, Ind. Haryester and binder	571,619	Nov. 17	2102	{ 504 505	77	1070
Lockwood, Amos, Halifax, England. Shedding mechanism for looms	554,886	Feb. 18	1919	{ 451 452	74	896
Lockwood, Amos, Halifax, England. Shuttle-box-operating mechanism for looms	573,276	Dec. 15	2090	{ 502 503	77	1713

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Lockwood, Edward M., and W. M. Patterson, assignors of two-thirds to W. A. and I. B. Poucher, Estate of R. J. Oliphant, Oswego, N. Y., and G. O. Seward, Trenton, N. J. Machine for boxing matches.	564,310	July 21	1884	{ 443 444 445 416 219 116 117 }	76	378
Lockwood, George A. and J. E., Chariton, Iowa. Stem winding and setting watch.	563,777	July 14	917	219	76	188
Lockwood, George E., Philadelphia, Pa. Can-soldering machine.	555,782	Mar. 3	424	{ 116 117 }	74	1218
Lockwood, James E. (See Lockwood, George A. and J. E.)						
Lockwood, James F., assignor to Z. T. Hall, Philadelphia, Pa. Griddle.	554,942	Feb. 18	2012	476	74	913
Lockwood, John M. (See Lockwood, William C. and J. M.)						
Lockwood, Joseph E., Brighton, Canada. Combination-lock.	567,146	Sept. 8	736	172	76	1433
Lockwood, Joseph E., Detroit, Mich. Electric locomotive.	568,779	Oct. 6	119	28	77	24
Lockwood, Rhodes, Boston, Mass. Atomizer-valve.	557,589	Apr. 7	109	28	75	22
Lockwood, William. (See Sheldon and Lockwood.)						
Lockwood, William C. and J. M., Brooklyn, N. Y., assignors of one-half to J. Tice, New Brunswick, N. J. Telephony.	557,588	Apr. 7	108	28	75	22
Loder, John S., Denver, Colo. Oxidizing pyrite-smelting furnace.	567,986	Sept. 22	2177	524	76	1729
Loder, John S., Ouray, Colo., assignor of three-fourths to A. Cuninghame, Birmingham, Ala. Ore-concentrator apparatus.	553,560	Jan. 28	1933	457	74	405
Lodetti, Frank E., Rondout, N. Y. Wrench.	553,008	Jan. 14	954	231	74	193
Lodge, Edward B., Cleveland, and W. R. Lodge, Cuyahoga Falls, Ohio. Station or street indicator.	568,859	Oct. 6	250	58	77	49
Lodge, William R. (See Lodge, Edward B. and W. R.)						
Loeb, Albert H. (See Park, Harvey S., assignor.)						
Loeb, Ferdinand A., Camden, N. J. Cloth-disengaging tool for embroidering-machines.	556,546	Mar. 17	1946	454	74	1526
Loeffler, Arthur, Chicago, Ill. Elastic-tread horseshoe.	557,407	Mar. 31	3443	825	74	1845
Loeffler, Charles C. M., trustee. (See Rogers, John B., assignor.)						
Loehr, Miles E., Claypool, Ind. Spark-arrester.	560,361	May 19	1868	426	75	1095
Loesser, Edward and E., assignors of four-ninths to L. Dreyfus, New York, and R. Loesser, Brooklyn, N. Y. Diamond-polishing dop.	573,672	Dec. 22	2868	677	77	1875
Loesser, Ernest. (See Loesser, Edward and E.)						
Loesser, Ernest. (See Loesser, Richard and E.)						
Loesser, Ernest and R., Brooklyn, N. Y. Diamond-polishing tool.	558,909	Apr. 21	2443	595	75	493
Loesser, Richard. (See Loesser, Ernest and R.)						
Loesser, Richard, et al. (See Loesser, Edward and E., assignors.)						
Loesser, Richard and E., Brooklyn, assignors to L. Dreyfus, New York, N. Y. Diamond-polishing tool.	558,734	Apr. 21	2141	516	75	436
Loetscher, Andrew A., Dubuque, Iowa. Storm-sash fastener.	557,408	Mar. 31	3444	825	74	1845
Loetscher, Christian, Dubuque, Iowa, assignor, by mesne assignments, to New Britain Machine Company, New Britain, Conn. Endless-chain-cutter mortising-machine.	559,781	May 5	744	179	75	822
Loetzler, Christian E., Williamsport, Pa. Fire-hydrant.	570,031	Oct. 27	2301	{ 546 547 }	77	474
Loewenstein, Max. (See Malmström, Peter E., assignor.)						
Loewenstine, Jacob H., New York, N. Y. Glove.	556,581	Mar. 17	2000	467	74	1536
Loewer Sole-Rounder Company. (See Todd and Leary, assignors.)						
Lofgreen, Fredrick E., and W. H. Whisler, assignors of one-third to F. C. Cullen, F. O. Bloch, and H. Wasserman, Muscatine, Iowa. Stove-polish.	557,842	Apr. 7	568	-----	75	107
Lofstrom, Anders, Malden, Mass. Roll-top desk.	552,846	Jan. 7	648	159	74	122
Logan, Charles L., Los Angeles, assignor to San Francisco Register Company, San Francisco, Cal. Fare-register.	563,289	July 7	92	23	76	20
Logan, Lucius S., Danville, Ky. Foot-rest for light driving-vehicles.	555,576	Mar. 3	135	37	74	1159
Logan, Martin, New York, N. Y. Stable-drain.	559,035	Apr. 28	2665	649	75	552
Logan, Mitchell G. (See Cheek and Logan.)						
Logan, Oscar A., Chicago, Ill. Envelop-fastener.	558,823	Apr. 21	2293	557	75	464
Logan, Paul H., El Paso, Tex. Fastening device for fence-runners.	569,648	Oct. 20	1631	385	77	339
Logan, Sylvester, Emlenton, Pa. Bicycle-brake.	567,650	Sept. 15	1605	386	76	1607
Logan, U. L. (See Nalley, John T., assignor.)						
Logan, Walter S., Denver, Colo. Horseshoe-calk.	558,560	Apr. 21	1837	447	75	381
Logee, Edgar L., Providence, R. I. Fastening device for waist-belts.	561,118	June 2	70	19	75	1380
Logsdon, William L., Jeffersonville, Ind. Couch for invalids.	565,287	Aug. 4	630	150	76	732
Logue, John M., Belle Vernon, Pa. Rope-clamp.	570,287	Oct. 27	2768	658	77	563
Logue, William A., Sunset, Mont. Stamp-mill.	558,190	Apr. 14	1205	294	75	245
Lohr, Charles, Milwaukee, Wis. Stone-dressing machine.	569,719	Oct. 20	1776	422	77	364
Lohsard, Ernest, Chicago, Ill. Coin-controlled machine.	559,534	May 5	317	76, 77	75	744
Lomas, John R., West Haven, Conn. Combined clothes-drier and fire-escape.	573,673	Dec. 22	2869	677	77	1876
Lomas, Joseph, Ashland, Oreg. Tree-felling and log-sawing machine.	552,963	Jan. 14	884	215	74	179
Lomax, Charles J. (See Lomax, Walter J. and C. J.)						
Lomax, Walter J. and C. J., Bolton, England. Method of and means for effecting filtration of liquids.	560,512	May 19	2126	{ 486 487 }	75	1142
Lombard, Edward C., Meriden, assignor of one-half to O. C. Carter, Deep River, Conn. Octave-coupler for organs.	557,843	Apr. 7	568	136	75	107
Lombard, Frank, Hartford, Conn. Drop-hammer.	563,603	July 7	620	{ 145 146 }	76	116
Lombard, Frank, Hartford, Conn. Drop-hammer.	566,199	Aug. 18	2264	553	76	1079
Lombard, Frank, Hartford, Conn. Lifting-jack.	574,036	Dec. 20	3515	839	77	2009
Lombard, Robert T., Racine, Wis. Vehicle-spring.	561,235	June 2	274	69	75	1421
Lomont, Francis A., Eaton, Ind. Joint for vehicle-wheel rims.	561,119	June 2	70	19	75	1380
Long, Alfred, London, England. Apparatus for regulating water supply to closets, urinals, &c.	570,487	Nov. 3	91	21	77	655
Long & Allstatter Company. (See Long, John M. W., assignor.)						
Long, Barnett, and H. Riedel, assignors of one-third to I. Decker, Greencastle, Pa. Water-gage.	554,283	Feb. 11	871	201	74	681
Long, Benton H., Palo, Iowa. Shock-compressor.	553,962	Feb. 4	293	65	74	558
Long, Burgess M., Dekoven, and A. T. Anderson, Sturgis, Ky. Car-coupling.	556,995	Mar. 24	2689	634	74	1683
Long, Clinton E., Williamsport, Pa. Valve-stopper.	570,671	Nov. 3	474	110	77	726
Long, David E., et al. (See Beansiderfer, Joseph A., assignor.)						
Long, David F., and B. F. Shull, Canton, Ohio; said Shull assignor to said Long. Combined child's wagon and velocipede.	564,796	July 28	2724	{ 647 648 }	76	549
Long, Francis F., Tyler, Tex. Stirrup.	565,478	Aug. 11	956	228	76	815
Long, George S., assignor to Pratt & Long Chuck Company, Hartford, Conn. Drill-chuck.	553,531	Jan. 28	1879	444	74	396
Long, George W., and W. S. Fisher, Lewisburg, Tenn. Duplex shovel-plow.	562,311	June 16	2169	532	75	1826
Long, Henry C., assignor of one-half to R. C. Grovestein, Cambridge, Mass. Axle-nut wrench.	567,987	Sept. 22	2179	525	76	1729
Long, Henry L., assignor of one-half to J. D. Roberts, St. Paul, Minn. Potato-digger.	572,646	Dec. 8	980	236	77	1484

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Long Island Rubber and Cycle Company. (See Smith, Abram L., assignor.)						
Long, John M. W., assignor to Long & Allstatter Company, Hamilton, Ohio. Cultivator.	554,703	Feb. 18	1598	376	74	836
Long, John M. W., assignor to Long & Allstatter Company, Hamilton, Ohio. Riding-cultivator.	554,704	Feb. 18	1600	377	74	836
Long, John T., Chicago, Ill. Clock	555,387	Feb. 25	2816	662 663	74	1079
Long, Nathan H., Muncie, Ind. Rain-water filter	571,776	Nov. 24	2391	571	77	1144
Long, Samuel E., Richmond, Va. Valve for railway-tanks	566,592	Aug. 25	2959	722	76	1227
Long, Theodore F., Garvanza, Cal. Patch for pressure-pipes	564,251	July 21	1784	417	76	362
Long, Thomas, and E. Corbett, Boston, Mass.; said Long assignor to said Corbett. Punch-block holder for eyeletting-machines	553,715	Jan. 28	2195	521	74	454
Long, Timothy, Cleveland, Ohio. Car-unloading apparatus	553,122	Jan. 14	1159	281 282	74	232
Long, Timothy, Cleveland, Ohio. Car-unloading apparatus	560,727	May 26	2554	587 588	75	1237
Long, Timothy, Cleveland, assignor to McMyler Car Dumping Machine Company, of Cuyahoga county, Ohio. Car-unloading apparatus	568,860	Oct. 6	251	59	77	49
Long, Walter Z., Springfield, Ohio. Pop-corn-fritter machine	567,836	Sept. 15	1922	461	76	1668
Long, William H. (See Welsh, Hamilton E., assignor.)						
Longden, John, Bay State, Mass. Belt polishing-frame	572,812	Dec. 8	1280	308	77	1541
Longenecker, Charles K., Brooklyn, N. Y. Self-oiling steam-engine	561,120	June 2	72	19, 20	75	1351
Longstaff, George W., Bridgeport, Conn. Cabinet-table	553,860	Feb. 4	85	18	74	521
Longstreth, William C., Oakland, Cal. Detonating burglar-alarm	554,887	Feb. 18	1921	452	74	897
Longworth, Thomas, <i>et al.</i> (See Hoehe, Ferdinand F., assignor.)						
Longyear, J. M. (See McKenney, Franklin S., assignor.)						
Longyear, J. M. (See McKenney and Welton, assignors.)						
Look, Frank N., Northampton, Mass. Device for making covered eyelets	568,317	Sept. 22	2777	668	76	1841
Look, Frank N., assignor to Florence Manufacturing Company, Northampton, Mass. Brush	572,347	Dec. 1	453	106	77	1365
Look, John C., San José, Cal. Car-coupling	563,389	July 7	257	57	76	52
Loomer, Andrew F., Derby, and C. B. Howd, assignors to L. L. Loomer's Sons, Bridgeport, Conn. Corset	562,839	June 30	3122	756	75	2035
Loomer's Sons, L. L. (See Loomer and Howd, assignors.)						
Loomis, Ellsworth A., Chicago, Ill. Extension-table	555,727	Mar. 3	412	95	74	1204
Loomis, George D., Tiffin, Ohio. Well drilling and driving machine	565,909	Aug. 18	1768	430 431	76	924
Loomis, John W., Doudton, Ky. Evaporator	553,532	Jan. 28	1880	444	74	396
Loomis, Osborn P., Bound Brook, N. J. Commutator-brush	554,369	Feb. 11	1015	235	74	708
Loos, Friedrich, Nuremberg, Germany. Lubricator	570,706	Nov. 3	536	124	77	738
Löper, Carl, Lichtenberg, Germany. Exhaust-muffler	556,427	Mar. 17	1731	402	74	1486
Lopez, Manuel, Sale, England. Hat-fastener	568,031	Sept. 22	2273	550	76	1746
Loppé, François. (See Martin, Hervais, and Loppé.)						
Loppettien, John D., Orange, Cal. Violin-bow	564,091	July 14	1510	353	76	297
Lorash, Henry D., Indianapolis, Ind. Dumping wagon-body	569,108	Oct. 6	669	155 156	77	128
Lorand, Peter, Jordan, Minn., assignor of one-half to J. Lazarus. Wrench	554,284	Feb. 11	872	201	74	651
Lord, George W., Mattapan, Mass. Smoke-consuming device	552,847	Jan. 7	649	159	74	122
Lord, Harrison S., <i>et al.</i> (See Robertson, Burton S., assignor.)						
Lord, James B., Radcliffe, England, assignor to J. T. Horridge, Philadelphia, Pa. Educational appliance	553,533	Jan. 28	1882	445	74	397
Lordier, Michael J., Fort Wayne, Ind. Water-heater	563,976	July 14	1300	304	76	256
Loree, Perry E., assignor of one-half to F. A. Taft, Dayton, Ohio. Window-sash	564,933	July 28	2962	705	76	593
Lorenz, Jacob. (See Lorenz, John and J.)						
Lorenz, John and J., assignors, by mesne assignments, to themselves and G. Stroh, Hamilton, Ohio. Refrigerator-car	562,087	June 16	1829	445	75	1758
Lorenz, Peter A., Chicago, Ill. Sheet-metal trough or conductor	559,338	Apr. 28	3258	787	75	662
Lorenz, Richard O., Göttingen, Germany. Apparatus for producing zinc and lead by electrolysis	559,729	May 5	633	152	75	803
Lorenz, William A., <i>et al.</i> (See Christiansen, John, assignor.)						
Lorenz, William A. (See Honiss and Lorenz)						
Lorenz, William A., assignor of one-half to W. H. Honiss, Hartford, Conn. Plaiting-machine	559,139	Apr. 28	2889	696 697	75	594
Lorenz, William A., assignor of one-half to W. H. Honiss, Hartford, Conn. Toy spectacles	560,418	May 19	1975	452	75	1115
Lorenz, William A., Hartford, Conn., assignor to Consolidated S. O. S. Bag Company, New York, N. Y. Sheet-separating machine	570,175	Oct. 27	2559	608	77	524
Lorenz, William A., Hartford, Conn., assignor, by mesne assignments, to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Bicycle	572,208	Dec. 1	195	48, 49	77	1316
Lorenz, William A., and W. H. Honiss, Hartford, Conn. Paper bag	559,138	Apr. 28	2887	695 696 697 698	75	593
Lorenz, William A., and W. H. Honiss, Hartford, Conn. Compartment-bag machine	559,140	Apr. 28	2892	699 700 701 493	75	594
Lorenz, William A., and E. E. Claussen, assignors to A. H. Walker, trustee, Hartford, Conn. Paper-bag machine	553,652	Jan. 28	2092	494 495	74	434
Lorenz, William A., Hartford, and C. Reising, Southington, Conn., assignors to Consolidated S. O. S. Bag Company, New York, N. Y. Sheet separating machine	570,176	Oct. 27	2560	609 610	77	524
Lorenz, William A., and E. E. Claussen, assignors to A. H. Walker, trustee, Hartford, Conn., and Consolidated S. O. S. Bag Company, New York, N. Y. Paper-bag machine	573,277	Dec. 15	2094	503 504	77	1714
Lorenz, William A., and E. E. Claussen, assignors to A. H. Walker, trustee, Hartford, Conn., and Consolidated S. O. S. Bag Company, New York, N. Y. Paper-bag machine	573,278	Dec. 15	2097	504 505	77	1714
Lorimer, John H. (See Connell, Walter G., assignor.)						
Lorimer, Joseph H., Philadelphia, Pa. Apparatus for dyeing	570,488	Nov. 3	93	21, 22	77	656
Lorimer, William H., <i>et al.</i> (See Falkenau and Hund, assignors.)						
Loring, Atherton, Cambridge, Mass. Pipe connection for water-closets	569,790	Oct. 20	1899	450	77	385
Loring, Jacob P. (See Meldrum, Charles, assignor.)						
Lorio, Anthony A., Lakeland, La. Apparatus for handling cane	571,233	Nov. 10	1451	340 341	77	936
Lorio, Anthony A., Lakeland, assignor of one-half to E. A. Koch, Bayou Goula, La. Vehicle for hauling sugar-cane	571,309	Nov. 10	1580	375 376	77	962
Lorio, George, Hahnville, La. Apparatus for supplying sugar-cane to carriers	567,006	Sept. 15	2022	425	76	1688
Lorois, Maurice, Nantes, France, and F. G. Bates, Philadelphia, Pa.; said Lorois assignor to said Bates. Process of and apparatus for manufacturing gas	573,989	Dec. 29	3436	823	77	1994

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Loryea, William D. F., assignor of one-half to E. S. and I. S. Rosenblat, San Francisco, Cal. Flour or condiment dredge	572,362	Dec. 1	488	114	77	1371
Lothridge, Louis H. (See Hummel and Lothridge.)						
Lotz, Arthur W., and J. Huzelstein, Paris, France. Steering-fork for bicycles or other vehicles	556,010	Mar. 10	919	219	74	1321
Lotz, Reinhart P., Allegheny, Pa. Gas-burner	557,281	Mar. 31	3221	773	74	1801
Lotze, Ernst J., assignor of thirteen-thirtieths to M. Abrahams and J. E. Ketchum, Northport, Wash. Reversible plow	573,824	Dec. 22	3123	743 744	77	1924
Lotzgesell, Henry, Philadelphia, Pa. Car-fender	570,099	Oct. 27	2431	578	77	499
Loucks, David M., Jacobus, Pa. Vehicle spindle and box	566,200	Aug. 18	2267	554	76	1080
Loucks, Edwin W. (See Parker, William R., assignor.)						
Loucks, Zachariah K. (See Payne, William H., assignor.)						
Loucks, Zachariah K., et al. (See Wilday, John H., assignor.)						
Loud, Henry M., Au Sable, Mich. Beveling-machine	564,435	July 21	2104	492	76	418
Louden Machinery Company. (See Louden, William, assignor.)						
Louden, William, Fairfield, Iowa. Hay-carrier	555,605	Mar. 3	205	48	74	1167
Louden, William, Fairfield, Iowa. Hay-carrier track	555,606	Mar. 3	207	48	74	1168
Louden, William, Fairfield, Iowa. Hay-carrier track	555,607	Mar. 3	209	48	74	1168
Louden, William, Fairfield, Iowa. Hay-carrier track	555,608	Mar. 3	210	49	74	1169
Louden, William, Fairfield, Iowa. Hay-carrier apparatus	559,588	May 5	402	97	75	761
Louden, William, Fairfield, Iowa. Singletree	562,547	June 23	2578	626	75	1915
Louden, William, Fairfield, Iowa. Hay-carrier attachment	564,092	July 14	1511	353	76	297
Louden, William, Fairfield, Iowa. Ice-elevator	565,762	Aug. 11	1494	365	76	914
Louden, William, Fairfield, Iowa. Hay-carrier and attachment therefor	568,953	Oct. 6	405	91	77	77
Louden, William, assignor to Louden Machinery Company, Fairfield, Iowa. Track and track-hanger	555,321	Feb. 25	2709	635	74	1059
Lougee, Amanda M. (See Elwell, Russell T., assignor.)						
Lougee, Edwin A., Haverhill, Mass. Rope-clamp	566,404	Aug. 25	2635	643	76	1166
Lougee, Frederick G., Providence, R. I. Dial for recording apparatus	573,606	Dec. 22	2720	646	77	1848
Lough, William J., Altamont, Kans., assignor of one-half to A. Wolf, Chambersburg, Pa. Cleaner for sieves of bolting-machines	573,674	Dec. 22	2870	678	77	1876
Loughran, Albert C. L. (See Savage and Loughran.)						
Loughran, Frank, Philadelphia, Pa., assignor to Loughran Safety Window Manufacturing Company, of Philadelphia, Pa., and Camden, N. J. Window-casement	568,723	Sept. 29	3520	844	76	1995
Loughran Safety Window Manufacturing Company. (See Loughran, Frank, assignor.)						
Loughridge, Charles P., Nevada City, Cal. Meat-holder	561,008	May 26	3044	700	75	1330
Loughridge, William J., Lexington, Ky. Water-cooling apparatus	570,318	Oct. 27	1870	681 682	77	580
Loughry, William A., Yates Centre, Kans. Feather-renovating apparatus	569,791	Oct. 20	1901	451	77	386
Louis, Julius, assignor of one-half to J. Hilgers, New York, N. Y. Elastic-tread horse-shoe	556,154	Mar. 10	1196	279	74	1371
Lounsburg, Fred C., Plainfield, N. J. Curtain-fixture	568,091	Sept. 22	2398	577	76	1769
Louys, Even F., Stryker, Ohio. Cultivator	532,714	Jan. 7	370	97	74	72
Louzon, Peter, Detroit, Mich. Boiler-cleaner	562,548	June 23	2579	626	75	1915
Love, Robert, Loyalhanna, Pa. Farm-gate	569,026	Oct. 6	534	123	77	101
Lovejoy, Fredric C. (See Tilley and Lovejoy.)						
Lovejoy, Thomas H., Chicago, Ill. Street-car truck	571,091	Nov. 10	1208	283	77	891
Lovejoy, Thomas H., assignor, by mesne assignments, to Chicago Hardware Manufacturing Company, Chicago, Ill. Cash indicator and recorder	560,066	May 12	1328	297 298	75	946
Lovelace, Robert S., Hentsridge, England. Velocipede	564,797	July 28	2726	648	76	549
Loveland, John W., Lincoln, Ill. Threshold-strip	564,206	July 21	1718	402	76	349
Loveless, Braman H., et al. (See Ranboff, John M., assignor.)						
Lovell, Albert K., New York, N. Y. Wrench	559,901	May 12	1023	226	75	888
Lovell, George W., assignor of one-third to T. D. Dale, Marietta, Ohio. Drill-jack	559,730	May 5	636	152	75	803
Loveridge, Frederick H. (See Tucker and Loveridge.)						
Loveridge, Frederick H., Coldwater, Mich., assignor to Western Electric Company, Chicago, Ill. Automatic current regulation of dynamo-electric machines	563,290	July 7	96	23	76	21
Lovering, William C., et al. (See Culver, Frederick S., assignor.)						
Lovette, John A., Manhattan, Kans. Band-cutter and feeder attachment	573,019	Dec. 15	1634	393	77	1628
Loving, James D., Bowling Green, Ky. Fence-machine	570,938	Nov. 10	943	219	77	843
Loving, Joseph H., Fate, Tex. Machine for making tablets	555,105	Feb. 25	2328	553	74	988
Low, Abbot A. (See Johnson and Low.)						
Low, Abbot A., Brooklyn, N. Y. Tide-indicator	569,340	Oct. 13	1080	257	77	223
Low, Everett M., assignor, by mesne assignments, to Worcester Envelope Company, Worcester, Mass. Envelop-machine	556,062	Mar. 10	1024	245 246	74	1339
Low, Everett M., assignor, by mesne assignments, to Worcester Envelope Company, Worcester, Mass. Envelop-machine	556,063	Mar. 10	1029	246 247	74	1340
Low, S. P., et al. (See McDonald, Robert, assignor.)						
Lowderbaugh, Hezekiah S., Lyons, Iowa. Well or cistern cleaner	565,763	Aug. 11	1496	365	76	914
Lowdon, David. (See Marquand and Lowdon.)						
Lowe, Henry C., and F. C. Gande, Gandeenville, W. Va. Pruning implement	573,339	Dec. 15	2221	531	77	1736
Lowe, James A. (See Van Vechten, Junius T. B., assignor.)						
Lowe, John, Providence, R. I. Window-fastener	557,134	Mar. 31	2935	703	74	1754
Lowe, Louis W., Lincleville, N. Y. Machine for making continuous inlaid linoleum	562,840	June 30	3122	756	75	2035
Lowe, Robert, et al. (See McGinty, John H., assignor.)						
Lowe, Robert, assignor of one-half to F. McKee, Washington, Pa. Feed-water heater and purifier	558,502	Apr. 21	1753	426	75	365
Lowe, Walter P., Cleveland, and C. W. Bilfinger, Lima, assignors to Manhattan Oil Company, Toledo, Ohio. Process of and apparatus for distillation of oil	556,155	Mar. 10	1197	280	74	1371
Lowell Machine Shop. (See Flather, Frederick A., assignor.)						
Lowell Machine Shop. (See Humphrey, Otis L., assignor.)						
Lowell Machine Shop. (See Whitaker, Channing, assignor.)						
Lowenberg, Georg, Berlin, Germany. Composition of matter for use in manufacturing glow bodies for incandescent lamps	568,780	Oct. 6	121	.....	77	25
Lowenberg, George. (See Rammoser, Albert, assignor.)						
Lewis, Frank L., et al. (See Carleton, Thomas L., assignor.)						
Lowman, Benjamin J., assignor to himself and E. L. C. Ward, Bridgeport, Ala. Fire and burglar alarm	570,258	Oct. 27	2715	646	77	553
Lowmiller, Alpheus. (See Lindsay, Tonner, and Lowmiller.)						
Lowrey, John R., Omaha, Nebr. Boiler-fue	555,822	Mar. 3	557	133	74	1232
Lowrey, Joseph H., Neola, Iowa. Pneumatic tire shield	567,245	Sept. 8	887	212	76	1461
Lowrie, Harvey C., Denver, Colo. Apparatus for excavating, removing, and depositing earthy matter	565,549	Aug. 11	1105	267 268	76	811

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Lowrie, John A. (See Rickard and Lowrie.)						
Lowry, John. (See Schmidt and Lowry.)						
Lowry Manufacturing Company. (See Dunn, Ambrose C., assignor.)						
Lowther, Granville, Winfield, Kans. Traveling-bag.....	570,809	Nov. 3	702	160	77	768
Lowthian, Thomas. (See Schroter, George A., assignor.)						
Loy, William H., Cedar Rapids, Iowa. Heating-stove.....	567,034	Sept. 1	530	124	76	1382
Loyd, Alexander, and J. H. Forrester, Jacksonville, Tenn. Locking device for mail-bags.....	565,550	Aug. 11	1111	268	76	841
Loyd, Samuel, New York, N. Y. Transformation picture.....	563,778	July 14	919	219	76	188
Loyens, Charles, and A. Paulson, Breda, Netherlands, assignors to Diamond Match Company, Chicago, Ill. Box-shuck-making machine.....	556,996	Mar. 24	2691	634 635 636 636 637	74	1683
Loyens, Charles, and A. Paulson, Breda, Netherlands, assignors to Diamond Match Company, Chicago, Ill. Box-making machine.....	556,997	Mar. 24	2697	638 639 640	74	1684
Loyens, Charles, and A. Paulson, Breda, Netherlands, assignors to Diamond Match Company, Chicago, Ill. Machine for making box-covers.....	557,516	Mar. 31	3632	871	74	1880
Lubbers, John H., Pittsburg, Pa. Leer for glass sheets.....	555,047	Feb. 18	2222	530	74	950
Lubbers, John H., New Kensington, assignor of one-fifth to Dixon-Woods Company, Pittsburg, Pa. Glass conveying mechanism.....	555,048	Feb. 18	2223	530 531 532	74	950
Lubbock, William L. (See Johns, John P., assignor.)						
Lubowski, Hermann, assignor to F. Krupp Grusonwerk, Magdeburg, Germany. Water-tight joint for canal-lifts.....	561,902	June 9	1500	362 363	75	1678
Lucas, Albert, Magdeburg, Germany. Bicycle-support.....	567,035	Sept. 1	531	125	76	1382
Lucas, Austin H., assignor of one-half to G. P. Shane, Pittsburg, Pa. Cut-out for arc-lamps.....	564,757	July 28	2665	633 634	76	539
Lucas, Charles O. (See Harrison and Lucas.)						
Lucas, François, Munson Station, Pa. Foot-lantern.....	571,924	Nov. 24	2664	631	77	1195
Lucas, Georg, Berlin, Germany. Scaffold.....	561,263	June 2	313	79	75	1429
Lucas, George C., Cleveland, Ohio. Railway-frog.....	565,998	Aug. 18	1942	469 470	76	1019
Lucas, George C., Cleveland, Ohio. Clamp railway-frog.....	567,401	Sept. 8	1193	285 286	76	1514
Lucas, Harry, Birmingham, England. Bicycle-bell.....	571,777	Nov. 24	2392	572	77	1145
Lucas, James R., Outville, Ohio. Hog-trough.....	564,207	July 21	1719	402	76	349
Lucas, John, Hastings, Minn. Grain and seed separator.....	555,577	Mar. 3	156	37	74	1159
Lucas, John, Hastings, Minn. Feed-distributor.....	565,008	Aug. 4	78	19	76	632
Lucas, John F., Saginaw, Mich. Ice-scraper.....	567,318	Sept. 8	1051	251	76	1489
Lucas, Simeon B., Hinsdale, N. Y. Tug-holder.....	573,889	Dec. 29	3242	772	77	1960
Lucas, Thomas H., assignor of one-half to H. B. Martin, Minneapolis, Minn. Furnace.....	554,705	Feb. 18	1600	377	74	836
Luce, Charles E., Stuttgart, Germany. Veil-fastener.....	567,907	Sept. 15	2023	485	76	1688
Luce, James R., Everett, Wash. Saw-tooth.....	565,288	Aug. 4	632	150	76	732
Luce, John A. (See McLellan, John T., assignor.)						
Luce, John E., Minneapolis, Minn. Electric band.....	569,649	Oct. 20	1632	386	77	339
Luce, William, Nehalem, Oreg. Swimming device.....	560,590	May 19	2260	518	75	1166
Luckenbach, Royer, assignor to C. P. Hoskins, Philadelphia, Pa. Toy.....	560,728	May 26	2556	588	75	1237
Luckenbach, Royer, assignor to C. P. Hoskins, Philadelphia, Pa. Toy.....	560,729	May 26	2557	588	75	1238
Luckett, John P., Baltimore, Md. Sheet-metal-seaming machine.....	558,735	Apr. 21	2144	516 517	75	437
Ludikar, Bohumil. (See Hellmann, Ludikar, and Suda.)						
Ludington, Frank J., Waterbury, Conn. Machine for making paper packages for cheroots, &c.....	561,332	June 2	471	117 118 119 120	75	1461
Ludington, Frank J., assignor to L. C. White Company, Waterbury, Conn. Machine for making button-backs.....	564,828	July 28	2774	659 660	76	558
Ludl, Eduard E., New York, N. Y. Explosive-engine.....	572,209	Dec. 1	198	49, 50	77	1316
Ludlow, George M., et al. (See Burton, Charles C., assignor.)						
Ludlow, James T., San Francisco, Cal. Wire ropeway.....	572,305	Dec. 1	390	92, 93	77	1353
Ludlum, Thomas B., Denver, Colo. Hydraulic mining machinery.....	563,604	July 7	624	146	76	117
Ludovici, William O., San Francisco, Cal. Fluid-pressure regulator.....	566,775	Sept. 1	70	18	76	1293
Ludwick, Jerome, and H. H. Amborn, Chicago, Ill. Portable bake-oven.....	564,798	July 28	2727	648 649	76	549
Luebbers, John, assignor to J. B. Schroder & Co., Cincinnati, Ohio. Lock.....	570,032	Oct. 27	2303	547	77	475
Lueders, Caroline. (See Van Graafeiland, Charles, assignor.)						
Luers, Hyman. (See Josephs and Luers.)						
Luethi, Fredrick C. (See Grodzik and Luethi.)						
Lufkin, Charles M., Langdon, N. H. Swivel-plow.....	570,177	Oct. 27	2563	610	77	525
Lufkin, Harvey L. (See Mattison, Charles D., assignor.)						
Luft, Walter, Barmen, Germany. Dress-fastener for closing ladies' dresses.....	567,348	Sept. 8	1097	264	76	1497
Luger, George, Berlin, Germany. Cartridge-pocket.....	567,147	Sept. 8	739	173	76	1434
Lugo, Orazio, and H. T. Jackson, New York, N. Y. Electrolytic treatment of soap-lyes.....	558,970	Apr. 28	2557	620	75	532
Lugrin, Henry A., Brooklyn, assignor of one-half to M. D. Fielding, New York, N. Y. Stop-watch.....	552,715	Jan. 7	371	97, 98	74	72
Lukasevig, John. (See Lukasevig, Paul and J.)						
Lukasevig, Paul and J., Custer, Wis. Pipe-coupling.....	562,189	June 16	1996	483	75	1790
Lukermann, Frederic. (See Quintus, Ritchie, Quintus, Beebe, and Lukermann.)						
Lukens, Gabriel L., Decatur, assignor of one-half to C. Roney, Bethany, Ill. Device for insuring collection of fares on railways.....	552,878	Jan. 7	719	175	74	134
Lum, Fred C. (See Hinman, George C., assignor.)						
Lumley, Edwin J., Portsmouth, Va., assignor of three-eighths to C. B. Brookes, Washington, D. C. Continuous-cigarette machine.....	562,772	June 23	2976	721 722	75	1992
Lumley, William, Chicago, Ill. File-box.....	573,020	Dec. 15	1635	393	77	1628
Lund, Dankard H., Watson, Minn. Motion-regulator for self-binders.....	558,191	Apr. 14	1207	294	75	245
Lund, Franklin P., Buffalo, N. Y. Combined roller and ice skate.....	566,271	Aug. 18	2371	580	76	1100
Lund, Fredrick A., assignor to D. J. Kennelly, Los Angeles, Cal. Crutch.....	562,333	June 16	2227	542	75	1834
Lundell, Robert. (See Johnson and Lundell.)						
Lundell, Robert, Brooklyn, assignor to Johnson-Lundell Electric Company, New York, N. Y. Electric railway.....	560,513	May 19	2128	487	75	1142
Lundell, Robert, Brooklyn, assignor to Electric Experimental and Developing Company, New York, N. Y. Alternating electric motor.....	560,591	May 19	2261	518	75	1166

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Lundell, Robert, Brooklyn, assignor of two-thirds to E. H. Johnson, New York, N. Y. Dynamo-electric machine	571,310	Nov. 10	1581	376	77	962
Lundholm, Erik M., St. Paul, Minn. Sterilizer for surgical instruments, &c.	553,561	Jan. 28	1934	457	74	405
Lundquist, Charles P., assignor of one-half to E. C. Dennin, Brooklyn, N. Y. Bottle	569,217	Oct. 13	864	203	77	180
Lundqvist, Emil, Pittsburg, Pa. Electric-car truck	556,893	Mar. 24	2526	595	74	1651
Lundqvist, Richard, Laguna de Terminos, Mexico. Laundry-list indicator	570,319	Oct. 27	2872	682	77	581
Lundstrom, Carl J., assignor to D. H. Burrell & Co., Little Falls, N. Y. Centrifugal liquid-separator	571,838	Nov. 24	2498	592	77	1165
Lungstras, Ewald. (See Vocke and Lungstras.)						
Lungwitz, Emil E. (See Schweitzer and Lungwitz.)						
Lungwitz, Emil E., Brooklyn, N. Y. Furnace for smelting ores	555,961	Mar. 10	827	196	74	1304
Lunken, Edmund H., assignor to Lunkenheimer Company, Cincinnati, Ohio. Straightway valve	571,880	Nov. 24	2576	610	77	1179
Lunkenheimer Company. (See Lunken, Edmund H., assignor.)						
Lunn, Fred C. (See Hinman, George C., assignor.)						
Lunt, Eva J., Beverly, Mass. Shoestring-fastener	561,009	May 26	3045	700	75	1330
Lüpke, Paul, Trenton, N. J. Signaling apparatus	564,706	July 28	2561	606	76	521
Lurssen, Herman H. (See Mattfeldt and Lurssen.)						
Lüsberg, John M. (See Cavanaugh and Lüsberg.)						
Luscomb, Henry H., Hartford, Conn. Handle for velocipedes	569,877	Oct. 20	2031	484	77	410
Lussier, Frederick, Riverpoint, assignor of one-half to M. C. Latham, Lippitt, R. I. Stop-motion for mules	553,195	Jan. 14	1288	312	74	256
Lussier, Pierre, Jr. (See Tremblay, Marcel, assignor.)						
Lust, John, New Washington, Ohio. Fodder-binder	554,943	Feb. 18	2013	476	74	913
Lutes, George W., Lisbon, Ohio, assignor of one-fourth to A. B. Casselman, Washington, D. C. Undercut-mining machine	553,248	Jan. 21	1382	337 338	74	288
Luther, Benjamin G., Worcester, Mass. Sawing and mitering machine	553,009	Jan. 14	955	231	74	193
Luther, Frederick A. (See Topping, Alfred S., assignor.)						
Luther, James D., et al. (See Hutchins, Abner B., assignor.)						
Luther, William M., Buffalo, N. Y. Fumigator	573,675	Dec. 22	2871	678	77	1876
Lutkeke, Peter, assignor of one-half P. J. Netzer, St. Louis, Mo. Combined thill-coupling and antirattler	570,100	Oct. 27	2432	578	77	500
Lutton, William J., Paterson, N. J. Pattern-chain support for looms	553,279	Dec. 15	2100	505	77	1715
Lutz, Hans, Nuremberg, and W. Schaefer, Munich, Germany. Furnace	574,070	Feb. 4	480	110	74	594
Luxeder, Guido. (See Schwarz and Luxeder.)						
Luxmore, John P., Chicago, Ill. Electric program-clock	556,428	Mar. 17	1732	402 403	74	1486
Luyers, Charles, Brussels, Belgium. Aero-electric automatic brake	563,934	July 14	1222	236	76	243
Lyall, James, New York, N. Y. Woven fabric for wheel-tires	557,409	Mar. 31	3445	826	74	1846
Lyall, James, New York, N. Y. Fabric for tubular articles	562,312	June 16	2193	533	75	1827
Lybe, Daniel I., Sidney, Iowa. Tire-tightener	561,598	June 9	962	230	75	1577
Lycan, Albert E., Eureka, Ill. Swinging gate	559,141	Apr. 28	2003	701	75	596
Lycan, Albert E., Paris, Ill. Device for cutting plug-tobacco	571,905	Nov. 24	2631	624	77	1189
Lyda, William H. (See Bateman and Lyda.)						
Lydecker, Albert A., Paterson, N. J. Car-fender	570,645	Nov. 3	419	99	77	716
Lyford, Jay B., Bridgeport, Conn. Mechanical movement for type-writing machines	565,009	Aug. 4	80	19	76	632
Lyford, Oliver S., Jr. (See Badt and Lyford.)						
Lyford, Oliver S., Jr., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric-arc lamp	562,313	June 16	2194	533	75	1827
Lyman, Frederick W. (See Clark, John B., assignor.)						
Lyman, Henry C. (See Sherwood, Charles H., assignor.)						
Lyman, Henry F., Cleveland, Ohio. Safety-hook	553,123	Jan. 14	1161	282	74	232
Lyman, William, Middlefield, Conn. Sight for firearms	558,402	Apr. 14	1583	381	75	311
Lyman, William, Middlefield, Conn. Sight for firearms	558,403	Apr. 14	1564	381	75	312
Lynam, Joseph, and E. W. Russell, San José, Cal. Fruit-dipping apparatus	556,826	Mar. 24	2411	566 567	74	1630
Lynch, Andrew J., et al. (See Bennum, George W., assignor.)						
Lynch, Arthur C., New York, N. Y., and G. W. Christoph, Hartford, Conn. Dust-separator	567,988	Sept. 22	2181	525	76	1729
Lynch, Edward W. (See Veon, Andrew E., assignor.)						
Lynch, Harry B., McKeesport, Pa., assignor to E. C. Converse, New York, N. Y. Method of and apparatus for coating pipe	561,712	June 9	1165	277 278	75	1616
Lynch, Harry B., McKeesport, Pa., assignor to E. C. Converse, New York, N. Y. Pipe-drying apparatus	561,713	June 9	1167	278	75	1616
Lynch, Harry B., McKeesport, Pa., assignor to E. C. Converse, New York, N. Y. Method of and apparatus for pickling pipe or bar	561,714	June 9	1169	278 279	75	1617
Lynch, Harry B., McKeesport, Pa., assignor to E. C. Converse, New York, N. Y. Storage-floor for pipe or bar iron	561,715	June 9	1172	279	75	1617
Lynch, Harry B., McKeesport, Pa., assignor to E. C. Converse, New York, N. Y. Method of and apparatus for preparing pipe or bar for coating with metal	561,716	June 9	1174	279	75	1617
Lynch, James S., Brooklyn, N. Y. Window-cleaning chair	565,764	Aug. 11	1497	365	76	914
Lynch, James S., Brooklyn, N. Y. Support for bicycles	569,289	Oct. 13	985	236	77	203
Lynch, John M., et al. (See Pollard, Enos C., assignor.)						
Lynch, Matthew, New York, N. Y. Corner-iron for frames	566,593	Aug. 25	2961	722	76	1228
Lynch, Matthew W., Madison, Wis. Lock-buckle	573,093	Dec. 15	1771	426	77	1655
Lynch, Robert L., Leepport, Ky. Insect-destroyer	571,925	Nov. 24	2865	632	77	1196
Lynch, Vernon T., assignor of one-half to J. M. Roach, Chicago, Ill. Trolley-pole governor	573,517	Dec. 22	2562	608	77	1817
Lynecker, Gustav A., Munich, Germany. Electric signaling device for railways	555,217	Feb. 25	2515	594	74	1023
Lynd, George P., Jr., assignor to Buffalo Chemical Fire Extinguisher Company, Buffalo, N. Y. Fire-extinguisher	566,461	Aug. 25	2772	674	76	1191
Lyham, William C., Richmond, Va. Means for binding and suspending packages of paper bags	558,291	Apr. 14	1378	337	75	278
Lynn, Lewis L., assignor to American Biscuit and Manufacturing Company, St. Louis, Mo. Sheet-metal packing-box	560,140	May 12	1458	328	75	972
Lyne, William S., Pittsburg, Pa. Revolving bookcase	565,083	Aug. 4	213	54	76	657
Lynott, John P., Louisiana, Mo. Heat-radiating drum	557,211	Mar. 31	3092	741	74	1779
Lynott, John P., Louisiana, Mo. Heating-stove	561,408	June 2	610	152	75	1486
Lyon, Charles H., Chicago, Ill. Distributing fertilizers	563,195	June 30	3770	902	75	2164
Lyon, Elmer E., Cosby, Mo. Combination clamping wire stretcher and splicer	558,086	Apr. 14	1039	254	75	212
Lyon & Healy. (See Durkee, George B., assignor.)						
Lyon, James W., Brooklyn, N. Y. Reel for tape-measures	569,792	Oct. 20	1904	451	77	386
Lyon, Thomas B., Chilesburg, Ky. Convertible single and double tree	566,523	Aug. 25	2865	696	76	1209
Lyon, William A., S. E. Dunham, H. M. and W. E. Sproul, Danbury, Conn. Car-fender	566,328	Aug. 25	2481	608	76	1137

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Lyons, Charles, Jr. (See Bradshaw, Silas S., assignor.)						
Lyons, George W., Watertown, N. Y. Paper-pulp machine	564,436	July 21	2105	492	76	418
Lyons, Mary, New York, N. Y. Hat box or trunk	573,739	Dec. 22	3044	{ 721 722 }	77	1909
Lyons, Michael J., and L. Beemer, Duluth, Minn., assignors to M. Emerich, Chicago, Ill. Bath apparatus	558,292	Apr. 14	1360	337	75	278
Lyons, Michael J., and L. Beemer, Duluth, Minn., assignors to M. Emerich, Chicago, Ill. Bath apparatus	565,010	Aug. 4	81	19	76	632
Lyons, Robert, Lucky Valley, Iowa. Lister-cultivator	566,594	Aug. 25	2962	723	76	1223
Lysle, Robert W., et al. (See Bull, William C., assignor.)						
Lyte, Cecil H. M., London, England. Floor fabric	568,092	Sept. 22	2399	578	76	1769
Lytile, Nicholas E. (See Hewson, Edward M., assignor.)						
Lytile, Robert F., et al. (See Winters, David L., assignor.)						
M. & H. Manufacturing Company. (See Munro and Hitchings, assignors.)						
M. M. Buck Manufacturing Company. (See Seim, Henry H., assignor.)						
M. Ohmer's Son's Company. (See Tyler and Ohmer, assignors.)						
M. Rumely Company. (See Charroin, Frank B., assignor.)						
M. Rumely Company. (See Rumely, Meinrad, assignor.)						
Maas, Jacob. (See Gaschlin, Frederick G., assignor.)						
Mable, William, Fort Collins, Colo. Air-brake	572,553	Dec. 8	808	194	77	1448
MacAllister, Thomas H., et al. (See Lippard, James H., assignor.)						
MacCallum, James, Worcester, Mass. Warp-doubling machine	558,411	Apr. 14	1581	{ 386 387 }	75	315
MacColl, James R., Pawtucket, R. I. Lappet-loom	570,259	Oct. 27	2717	{ 646 647 }	77	554
MacColl, James R., Pawtucket, R. I. Lappet-loom	570,260	Oct. 27	2720	{ 647 648 }	77	554
MacCormac, John, et al. (See Shanks, John S. D., assignor.)						
MacCulloch, Robert C. (See Moore and MacCulloch.)						
MacDonald, James H., New Haven, Conn. Street-car fender	557,336	Mar. 31	3311	795	74	1819
MacFadden, Carl K. (See Rogers and Warren, assignors.)						
MacHaffie, John. (See Faure and MacHaffie.)						
MacKellar, Smiths & Jordan Company. (See Ziegler, George H., assignor.)						
MacKenzie, Edwin Y., Kingston, Jamaica. Bicycle	570,320	Oct. 27	2873	682	77	581
MacKenzie, George W., T. C. Sloane, Beaver, and W. P. Hanna, Pittsburg, Pa.; said MacKenzie and said Sloane assignors of one-fourth to said Hanna. Calculating-machine	573,228	Dec. 15	2011	{ 482 483 }	77	1699
MacKenzie, John, assignor to L. A. MacKenzie, West Troy, N. Y. Oiler for floors	564,707	July 28	2563	606	75	522
MacKenzie, John, Cleveland, Ohio, assignor to Buckeye Malleable Iron and Coupler Company. Locomotive-tender coupling	569,218	Oct. 13	865	{ 203 204 }	77	181
MacKenzie, John, Cleveland, Ohio, assignor to Buckeye Malleable Iron and Coupler Company. Engine-coupling	570,672	Nov. 3	474	111	77	726
MacKenzie, Lucretia A. (See MacKenzie, John, assignor.)						
MacKenzie, William K., and C. Chamberlain, Washington, D. C. Air and light port for marine vessels	552,536	Jan. 7	57	17	74	14
MacKintosh, George P., et al. (See Raphael, Lippmann, assignor.)						
MacKintosh, William, et al. (See Raphael, Lippmann, assignor.)						
MacLachlan, William F., Chicago, Ill. Shut-off and regulating cock for compressed gases	553,861	Feb. 4	87	18	74	521
MacLaren, David. (See Sharpe and Banfield, assignors.)						
MacLauchlan, James H. (See Kane and MacLauchlan)						
MacMillan, James R. (See Conner, MacMillan, and Fuller.)						
MacPherson, Duncan, Montreal, Canada. Railway-frog	552,916	Jan. 14	805	{ 196 197 }	74	164
MacRonald, Fred S., Portland, Me., assignor to Casco Paper Box Company, of Maine. Packing-case	572,657	Dec. 8	999	241	77	1489
MacSpadden, John C. and V. C., St. Joseph, Mo. Valve for pneumatic tubes	568,362	Sept. 29	2858	687	76	1871
MacSpadden, Volney C. (See MacSpadden, John C. and V. C.)						
Macan, William A., et al. (See Bull, William C., assignor.)						
Macanlay, Thomas A., deceased, New York, N. Y.; D. McCauley, administrator. Automatic musical instrument	564,384	July 21	2014	{ 473 474 }	75	401
Macanlay, Thomas A., deceased, New York, N. Y.; D. McCauley, administrator. Automatic musical instrument	564,385	July 21	2019	474	76	402
Macanlay, Thomas A., deceased, New York, N. Y.; D. McCauley, administrator. Automatic musical instrument	564,386	July 21	2021	475	76	403
Macanlay, Thomas A., deceased, New York, N. Y.; D. McCauley, administrator. Automatic musical instrument	564,387	July 21	2022	475	76	403
Macanlay, Thomas A., New York, N. Y., assignor, by mesne assignments, to Singer Manufacturing Company, of New Jersey. Sewing-machine	567,603	Sept. 15	1523	{ 366 367 }	76	1590
Macbeth, James, Buffalo, N. Y. Car-brake adjuster	556,011	Mar. 10	921	220	74	1321
Macbeth, James, Brooklyn, N. Y. Electric blasting-machine	564,437	July 21	2106	{ 492 493 }	76	418
Macdonald, Alexander F., Schenectady, N. Y., assignor to General Electric Company, of New York. Electric brake	567,989	Sept. 22	2182	{ 525 526 }	76	1730
Macdonald, John T., Jr. (See Fay, Stillman M., assignor.)						
Macdonald, Peter J., Gloucester, Mass. Jib tacking device	562,549	June 23	2381	626	75	1915
Macdonald, Ranald M., Christchurch, New Zealand. Automatic governor	559,181	Apr. 28	2965	716	75	608
Macdonald, Ranald M., Christchurch, New Zealand. Ticket printing and registering device	559,182	Apr. 28	2965	{ 716 717 }	75	608
Macdonald, Thomas H., Bridgeport, Conn., assignor to American Graphophone Company, of West Virginia. Device or apparatus for duplicating graphophone-records	559,806	May 12	818	192	75	851
Macdonald, Thomas H., Bridgeport, Conn., assignor to American Graphophone Company, of West Virginia. Box-fastener	562,137	June 16	1904	461	75	1773
Macdonald, Thomas H., Bridgeport, Conn., assignor to American Graphophone Company, of West Virginia. Graphophone	569,290	Oct. 13	986	337	77	204
Mace, Theodore, Philadelphia, Pa. Light-emitting body and producing same	574,358	Dec. 29	4129	981	77	2121
Macek, Johann, Buda-Pesth, Austria-Hungary, assignor to A. Frankl. Device for closing bottles	573,094	Dec. 15	1773	426	77	1655
Macevoy, Peter C., Brooklyn, N. Y., assignor of one-half to C. F. Canfield, Newark, N. J. Trolley for electric railways	571,092	Nov. 10	1210	283	77	892
Macey, Fred. (See Walton, Barker, and Van Dyke, assignors.)						
Macfarlane, James S., Mansfield, Conn. Spinning-machine	573,676	Dec. 22	2872	678	77	1876
Machauser, Frank. (See Sheffield, George V., assignor.)						
Machinery Construction Company. (See Morgan, Henry W., assignor.)						
Machold, Anthony F., Philadelphia, Pa. Saddle-cover	570,033	Oct. 27	2305	547	77	475

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Mack, Daniel H. (See Persels and Mack.)						
Mack, John F., Little Valley, N. Y. Extension-ladder	570,939	Nov. 10	945	219 220	77	843
Mack, William A., Cleveland, Ohio. Means for lubricating journal-bearings	555,176	Feb. 25	2444	579	74	1010
Mack, William A., Norwalk, Ohio, assignor to Standard Sewing Machine Company, of Ohio. Sewing-machine	559,493	May 5	247	56	75	730
Mack, William A., Norwalk, Ohio, assignor to Standard Sewing Machine Company, of Ohio. Tension device for sewing-machines	561,011	May 26	3047	701	75	1331
Mackenzie, Austin G., Wellsville, and J. S. Hollingshead, Tiltonville, Ohio. Brake for children's carriages	555,458	Feb. 25	2957	703	74	1106
Mackey, John J., et al. (See Skanks, Stephen C., assignor.)						
Mackey, Michael C., St. Louis, Mo. Ditching or excavating machine	569,975	Oct. 20	2204	524	77	442
Mackey, Perry D. (See Gayley and Mackey.)						
Mackey, Samuel P., Ridgefield, Wash. Weighing or measuring machine	569,878	Oct. 20	2033	484	77	410
Mackinnon, William M., Leeds, England. Apparatus for drying air	562,632	June 23	2711	665	75	1945
Mackint, Alvie O., Anderson, Ind., assignor of one-half to W. B. Thomas, Johnstown, Pa. Electric-arc lamp	560,039	May 12	1269	285 286	75	935
Mackinney, William C., Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company, of Pennsylvania. Textile-stretching device	573,095	Dec. 15	1774	427	77	1655
Mackinnon, Alexander H., and S. M. Gage, Seattle, Wash. Bicycle	556,201	Aug. 18	2269	554	76	1081
Macklett, Otto C., St. Paul, Minn. Fish-scraper	565,999	Aug. 18	1944	470	76	1020
Macklin, Athol B., assignor of two-thirds to I. Liebenstein and J. D. Abraham, New York, N. Y. Photographic or surveyor's stand	563,496	July 7	442	102	76	85
Mackly, Samuel C., et al. (See Galbraith, David R. S., assignor.)						
MacLachlan, Andrew D. (See Sadlier, William T., assignor.)						
MacLachlan, John W., assignor, by mesne assignments, to J. G. Campbell, Brooklyn, N. Y. Machine for cutting index-books	565,551	Aug. 11	1113	269	76	842
MacLay, James D., and A. J. Seaman, Louisville, Ky. Package-wrapping machine	565,479	Aug. 11	957	228	76	815
Maclear, Henry W. (See Legh and Maclear.)						
Macomber, Clarence R., Worcester, Mass. Chemical fire-pail	563,977	July 14	1302	304	76	257
Macorquodale, Duncan S., Toronto, Canada. Fare-box	562,841	June 30	3124	756 757	75	2036
Macphail, James, Rockford, Ill. Grain-binder	561,010	May 26	3045	701	75	1330
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Head-board for grain-binders	567,148	Sept. 8	741	173	76	1434
Macy, Charles B., Noblesville, assignor of one-half to M. R. Williams, Anderson, Ind. Rotary cooker	560,808	May 26	2694	619	75	1264
Macy, Clarence A., Rochester, N. Y. Automatic stop mechanism for elevators	553,862	Feb. 4	88	18	74	521
Macy, Edwin M., Viney Grove, Ark. Feed-rack	574,100	Dec. 29	3633	868	77	2031
Macy, Fred. (See Berkey, Julius, assignor.)						
Macy, Jason W., Searsborough, Iowa. Road-grader	561,264	June 2	314	79	75	1429
Madden, Albert F., Newark, N. J. Cigarette-roller	571,778	Nov. 24	2393	572	77	1145
Madden, Albert F., Newark, assignor to A. G. Winters, Stillwater, N. J. Machine for making metal shade-rollers	556,857	Mar. 24	2453	577 578	74	1639
Madden, Albert F., Newark, assignor to Electric Storage Battery Company, Gloucester City, N. J. Machine for making grids for secondary-battery plates	570,224	Oct. 27	2649	629	77	541
Madden, Albert F., assignor to A. Van Winkle and R. N. Chamberlain, Newark, N. J. Battery-grid and machine for producing same	572,363	Dec. 1	489	114 115	77	1371
Madden, Frank J. (See Clelland and Madden.)						
Madden, James W., Brooklyn, N. Y. Foot-belt	571,488	Nov. 17	1877	448	77	1030
Madden, Keeley R. (See Bennett, Andrew J., assignor.)						
Madden, Patrick J., Rochester, N. Y. Flushing attachment for water-closets	566,990	Sept. 1	455	105	76	1367
Madden, Patrick J., Rochester, N. Y. Flushing attachment for water-closets	569,341	Oct. 13	1081	257	77	223
Madden, Patrick J., Rochester, N. Y. Flushing attachment for water-closets	569,559	Oct. 13	1453	343	77	290
Madden, Patrick J., Rochester, N. Y. Flushing attachment for water-closets	569,560	Oct. 13	1455	344	77	290
Madden, Patrick J., Chicago, Ill. Flushing attachment for water-closets	574,367	Dec. 29	4142	984	77	2123
Madden, Son & Co., Thomas. (See McCune, Mervin H., assignor.)						
Madden, Thomas. (See Killackey and Madden.)						
Maddock, John, Trenton, N. J. Means for attaching seats and lids to water-closet bowls	564,438	July 21	2108	493	76	419
Maddux, Richard C., Duster, Tex. Insect-destroyer	556,760	Mar. 24	2301	541	74	1609
Maddux, Thomas C., Carthage, Tenn. Steam-cooker	567,858	Sept. 15	1958	469	76	1675
Madison, William, Los Gatos, Cal. Window-lock	559,982	May 12	1163	259	75	918
Madison, William A. (See Tibbitts, Madison, and Allen.)						
Maercklin, Friedrich. (See Stoll and Maercklin.)						
Maehlen, Albert. (See Scullin and Maehlen.)						
Mafera, Guy, assignor of one-half to J. Rennison & Co., Boston, Mass. Spring-bed	566,781	Sept. 1	77	20	76	1295
Magdolf, Alb. (See Goldmann, Theodor G. B., assignor.)						
Magee, Francis E., Brooklyn, N. Y. Electric-lighting mechanism for bicycles	572,430	Dec. 1	613	145	77	1394
Magee, Francis E., Brooklyn, N. Y. Electric lamp	572,431	Dec. 1	614	145	77	1395
Magee, Frank A., Wenham, assignor to Magee Furnace Company, Boston, Mass. Gas-burner for stoves, ranges, &c.	566,329	Aug. 25	2482	608	76	1137
Magee Furnace Company. (See Magee, Frank A., assignor.)						
Magee, John H., assignor of one-half to J. T. Noble, Buffalo, N. Y. Cooking stove or range	572,265	Dec. 1	303	72	77	1337
Magenheimer, Louis, assignor to Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Chocolate-dipper	560,909	May 26	2891	663	75	1301
Magill, Jerome B., assignor of one-half to C. A. Barnard, Moline, Ill. Cupola-furnace	573,825	Dec. 22	3124	744	77	1924
Maginnis, Patrick. (See Phillips, George C., assignor.)						
Magnus, Emil. (See Hurley, John J., assignor.)						
Magnusson, Charles A., St. Paul, Minn. Fish-hook and snell protector	566,595	Aug. 25	2964	723	76	1228
Magnusson, Nils L. (See Ravenscroft and Magnusson.)						
Magovern, John J. (See Randolph, John R., assignor.)						
Magrane, George F., Washington, D. C. Necktie	553,759	Jan. 28	2273	538	74	468
Maguolo, Ferdinand, La Claire, Ill. Cigar-case	556,192	Mar. 10	1266	295 296	74	1383
Mahedy, James, Kellerton, Iowa. Heater	571,135	Nov. 10	1298	301	77	907
Maher, James S., Kennard, Ohio. Wire fence	555,823	Mar. 3	557	133	74	1232
Maher, Oscar, assignor of one-half to E. D. Morgan and T. F. Burgess, Durango, Colo. Sash-holder	556,858	Mar. 24	2457	579	74	1639
Mahla, Emil, and C. Brann, Nuremberg, Germany. Manufacture of writing-pencils	553,414	Jan. 21	1672	222	74	341
Mahle, Lewis G., Carrollton, N. Y. Carpet-stretcher	572,018	Nov. 24	2815	664	77	1224
Mahler, Adam G., assignor of one-half to I. Heiberger, New York, N. Y. Pick-holder	570,321	Oct. 27	2874	682	77	581
Mahler, Adolph, et al. (See Moehn, John N., assignor.)						
Mahler, Charles, Paterson, N. J. Reed for looms	561,333	June 2	478	121	75	1462
Mahon, Hubert C., Junction City, Oreg. Can supporting and tilting device	568,781	Oct. 6	122	28	77	25

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Mahoney, Jerry L., Shelton, Conn. Puzzle	561,678	June 9	1097	263	75	1602
Mahoney, John. (See Barnes, Thomas, assignor.)						
Maiden, Rachel F., Philadelphia, Pa. Cover for portable washtubs.	558,824	Apr. 21	2294	557	75	464
Maier, John D., Jr., Wilmington, Del. Rule	556,582	Mar. 17	2001	467	74	1536
Maier, John J. (See Wagner and Maier.)						
Maier, Joseph, <i>et al.</i> (See Rademacher, Frank, assignor.)						
Mailoux, Cyprien O., assignor to J. J. J. De Rycke, New York, N. Y. Outlet-box and fixture-support	562,633	June 23	2743	665 666	75	1946
Main, George, Quincy, Mass. Bush-hammer	552,848	Jan. 7	650	159	74	123
Main, George, Quincy, Mass. Bush-hammer	552,849	Jan. 7	651	160	74	123
Main, George, Quincy, Mass. Bush-hammer	552,850	Jan. 7	651	160	74	123
Main, Jacob F., Boston, Mass. Coat and hat holder	569,422	Oct. 13	1215	285	77	246
Main, Jacob F., assignor to E. H. Phillips, Boston, Mass. Lamp-cleaning device.	560,592	May 19	2263	518	75	1167
Main, Robert. (See Donald, William, assignor.)						
Main, Rufus H. (See Riffe, James H., assignor.)						
Main, Willard F., Iowa City, Iowa. Music-box	559,183	Apr. 28	2969	717 718	75	609
Mainardi, Romolo, Cincinnati, Ohio. Automatic pump for inflating pneumatic tires	573,826	Dec. 22	3125	744	77	1924
Mainella, Felix. (See Ajello, Vincent, assignor.)						
Maines, John B., assignor to himself and D. J. Barr, Providence, R. I. Thill-coupling jack	569,583	Oct. 13	1509	356	77	301
Maingot, Joseph N., San Fernando, Trinidad, assignor to E. Carrigan, Warwick, R. I. Ramie-decorating machine	553,034	Jan. 14	990	240 241	74	199
Mains, Claude P., Cleveland, Ohio. Car-fender	558,404	Apr. 14	1567	382	75	312
Mains, Randolph S., Brooklyn, N. Y. Baking-pan	557,685	Apr. 7	288	69	75	55
Maisch, Charles F., Philadelphia, Pa. Car-fender	571,779	Nov. 24	2395	572	77	1145
Maish & Gorton Manufacturing Company. (See Maish, Wilbur F., assignor.)						
Maish, Wilbur F., assignor to Maish & Gorton Manufacturing Company, Warsaw, Ind. Bolting-reel	567,569	Sept. 8	1457	349 350	76	1563
Mait, Joseph, Oakland, Cal. Apparatus for separating and saving gold	563,046	June 30	3492	839	75	2111
Maitland, George. (See Stieringer, Luther, assignor.) (Reissue.)						
Majert, Wilhelm, Falkenberg, Germany. Pyrocatechin mono-acetic acid and making same	557,410	Mar. 31	3446		74	1846
Major, Charles, Bridgewater, England. Fireproof and ventilating floor	556,998	Mar. 24	2707	640	74	1685
Major, Charles W., assignor to himself and J. B. Dennis, Ottumwa, Iowa, and G. G. Major, Toledo, Ohio. Curling-iron	563,291	July 7	98	23	76	21
Major, Guy G., <i>et al.</i> (See Major, Charles W., assignor.)						
Majors, Joseph D., Macedonia, Ala. Car-coupling	566,991	Sept. 1	457	105	76	1368
Maldura, Giovanni B., Rome, Italy. Bridge for mandolins	554,828	Feb. 18	1812	425	74	878
Malinow, Herman, Los Angeles, Cal. Lemon-squeezer	560,273	May 19	1717	390	75	1069
Mallary, John S., and J. A. Leonard, Youngstown, Ohio. Ink-well	554,785	Feb. 18	1739	407	74	802
Mallette, Eli M. (See Thompson, Edward O., assignor.)						
Mallinckrodt, John F., assignor to Boulder Novelty Company, Boulder, Colo. Tobacco-pipe	562,472	June 23	2463	597	75	1894
Mallmann, Wilhelm. (See Bergmann, Carl, assignor.)						
Mallon, James, New Orleans, La., assignor of one-half to J. W. Bodley, Staunton, Va. Sugar-canesling	571,675	Nov. 17	2192	528	77	1088
Mallory, Ernest E., West Unity, Ohio. Umbrella or parasol	568,093	Sept. 22	2400	578	76	1769
Mallory & Wheeler Company. (See Andrews, Charles W., assignor.)						
Mallory, William H., <i>et al.</i> (See Simpson, James, assignor.)						
Mally, Frank J. (See Flindall and Mally.)						
Malm, Andrew, Two Harbors, Minn. Railway-switch	562,315	June 16	2196	533	75	1828
Malmquist, Carl E., Long Island City, N. Y. Corn-holder	553,249	Jan. 21	1384	338	74	288
Malmström, Axel E. (See Östlund and Malmström.)						
Malmström, Peter E., assignor of one-half to M. Loewenstein, New York, N. Y. Apparatus for carbonating and dispensing beverages	558,910	Apr. 21	2445	596	75	494
Malone, James M., and J. D. Perkins, Marble Hill, Ga. Stone-dressing machine	566,596	Aug. 25	2965	724	76	1228
Malone, Leslie, St. Louis, Mo. Bicycle-supporting apparatus	560,141	May 12	1460	328 329	75	972
Maloney, James A., Washington, D. C. Brush	557,844	Apr. 7	570	137	75	107
Maloney, James A., Washington, D. C. Vehicle-tire	566,597	Aug. 25	2967	724	76	1229
Maloney, James A., Washington, D. C. Saddle for bicycles	572,432	Dec. 1	615	146	77	1395
Maloney, James A., assignor to B. S. Minor, Washington, D. C. Syringe	565,480	Aug. 11	959	228	76	816
Maloney, James H., New York, N. Y. Nut-lock	564,289	July 21	1858	435	76	374
Maloney, Peter J., Worcester, Mass. Excavator	556,012	Mar. 10	924	220	74	1322
Malpas, Arthur. (See Hartland and Malpas.)						
Malsbary, Albert J., Reedley, Cal. Grain-drill attachment for gang-plows	553,926	Feb. 4	233	51	74	548
Malsch, Frank. (See Holton and Malsch.)						
Maltby, Harry C. (See Allen and Maltby.)						
Malter, Mathias C., Mariah Hill, Ind. Gate	567,908	Sept. 15	2024	485	76	1689
Maltzahn, Carl A. von, Blücherhof, Germany. Cultivation of asparagus	571,273	Nov. 10	1521	360	77	949
Malyon, Kittie F., Chicago, Ill. Hook	562,314	June 16	2195	533	75	1827
Mamaux, Isaac, Pittsburg, and J. T. Kelly, Allegheny, assignors of five twelfths to J. C. Woods, Pittsburg, Pa., and said Kelly assignor of one-eighth to said Mamaux. Device for sprinkling liquids	564,021	July 14	1375	320	76	271
Manchester, George A., Providence, R. I. Door-fastener	560,809	May 26	2695	619	75	1264
Mandel, Joseph. (See Haberthur, Benedikt, assignor.)						
Mandelbaum, Herman. (See Dunn, James H., assignor.)						
Manderfield, George J., and J. C. Brevin, Philadelphia, Pa. Knitting-machine	557,845	Apr. 7	571	137	75	108
Mandt, Targe G., Stoughton, Wis. Sleigh	561,012	May 26	3048	701	75	1331
Mandt, Targe G., Stoughton, Wis. Neck-yoke center	566,782	Sept. 1	78	20	76	1295
Mandt, Targe G., Stoughton, assignor to J. A. Johnson, Madison, Wis. Whiffletree-hook	553,863	Feb. 4	90	19	74	522
Mandt, Targe G., Stoughton, assignor to J. A. Johnson, Madison, Wis. Running-gear for vehicles	553,864	Feb. 4	91	19	74	522
Mandt, Targe G., assignor to T. G. Mandt, Stoughton, Wis. Wagon-bolster spring	563,497	July 7	443	102	76	85
Mandt, Tilla G. (See Mandt, Targe G., assignor.)						
Manegold, Frederick A., assignor of one-half to J. Z. Albert, Reading, Pa. Hub-attaching device	567,946	Sept. 15	2100	506	76	1702
Manes, James, assignor of one-fourth to W. J. Girvin, Denver, Colo. Machine for pulverizing and amalgamating ores	566,992	Sept. 1	458	106	76	1368
Maney, Thomas F. (See Doyle, James J., assignor.)						
Mangels, William F., Brooklyn, N. Y. Bicycle-railway	567,486	Sept. 8	1329	320 321	76	1540
Manger, Frederick W. (See Huebel and Manger.)						
Manger, Frederick W., and O. H. Huebel, Brooklyn, N. Y. Binding-post for electric bells, &c	571,977	Nov. 24	2755	650	77	1213

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Manhattan Brass Company. (See Gross, August, assignor.)						
Manhattan Oil Company. (See Lowe and Bilfinger, assignors.)						
Manhattan Optical Company. (See Schroeder, Heinrich L. H., assignor.)						
Manbes, Pierre, assignor of one-half to Société Anonyme de Métallurgie du Cuivre, Procédés Pre. Manbes, Lyons, France. Manufacturing nickel and cobalt.	574,068	Dec. 29	3573	-----	77	2020
Manley, Mandelbert L., Ferry, Mich. Potato-planter	574,037	Dec. 29	3517	840	77	2009
Mann, Charles B. (See Zapf, William F., assignor.)						
Mann, Charles F. S. (See Clement and Mann.)						
Mann, Cora G., Brooklyn, N. Y. Commode	571,620	Nov. 17	2104	505	77	1071
Mann, Edgar F., assignor of one-half to F. Starring, Detroit, Mich. Car-storage arrangement.	567,487	Sept. 8	1329	321	76	1540
Mann, John Q., Pursley, Tex. Attachment for sulky-plows	569,291	Oct. 13	989	237	77	204
Mann, Joseph R., Lewistown, Pa. Edge-tool	561,409	June 2	611	152	75	1486
Mann, Michael H., Holyoke, Mass. Newspaper-clip	561,410	June 2	614	153	75	1486
Mann, Thomas G. H., London, England. Rest or holder for books.	562,473	June 23	2464	597 598	75	1894
Mann, William B., Baltimore, Md. Elevating-chair	557,846	Apr. 7	574	137 138	75	108
Mann, William B., Baltimore, Md. Dental chair	557,847	Apr. 7	578	138	75	109
Mannesmann, Max, Remscheid, Germany, and R. Mannesmann, New York, N. Y., said Max Mannesmann assignor to said R. Mannesmann. Automatic feed mechanism for step-by-step tube-rolls	556,013	Mar. 10	926	220 221	74	1322
Mannesmann, Reinhard. (See Mannesmann, Max and R.)						
Mannesmann, Reinhard, New York, N. Y., assignor to Mannesmann Tube Company, Jersey City, N. J. Vehicle-pole	552,917	Jan. 14	807	197	74	165
Mannesmann, Reinhard, New York, N. Y., assignor to Mannesmann Tube Company, Jersey City, N. J. Single or double tree	552,918	Jan. 14	808	197	74	165
Mannesmann, Reinhard, New York, N. Y., assignor to Mannesmann Tube Company, Jersey City, N. J. Means for conveying water over hills or mountains	555,014	Feb. 18	2147	512	74	938
Mannesmann, Reinhard, New York, N. Y., assignor to Mannesmann Tube Company, Jersey City, N. J. Tubular frame for bridges, &c.	555,015	Feb. 18	2149	513	74	938
Mannesmann Tube Company. (See Mannesmann, Reinhard, assignor.)						
Manning, Daniel F., Troy, assignor of three-fifths to E. McCreary, G. H. Fitts, and A. Blyth, Cohoes, N. Y. Automatic car-fender	554,495	Feb. 11	1238	289 290	74	750
Manning, Elwin W., Waverly, N. Y. Bottle-stopper	561,013	May 26	3049	701	75	1331
Manning, Lemuel S., Oakland, Cal. Basket-carrier for bicycles	558,879	Apr. 21	2391	583	75	483
Mannstaedt, Louis, Kalk, Germany. Safe	553,348	Jan. 21	1566	374	74	320
Mansfield, Frederick W. R., Louisville, Ky. Show-case	570,322	Oct. 27	2874	683	77	581
Mansfield, Albert K., Salem, Ohio. Steam-engine	569,292	Oct. 13	991	238	77	204
Mansfield Display Novelty Company. (See Bloom, William H., assignor.)						
Mansfield, Frank, New York, N. Y. Door	554,888	Feb. 18	1923	453	74	897
Mansfield, George W., and I. F. Baker, Lynn, Mass., assignors to Thomson-Houston Electric Company, of Connecticut. Car-truck	566,202	Aug. 18	2270	554 555	76	1081
Mansfield, Henry A., New York, N. Y., assignor to Bridgeport Fire Extinguisher Company, Danbury, Conn. Fire-extinguisher	557,411	Mar. 31	3447	826	74	1246
Mansur, Charles W., et al. (See Stewart, John A., assignor.)						
Mantey, Henry, Orizaba, Mexico. Edge runner mill	573,890	Dec. 29	3242	772	77	1960
Manton, Frank S., Providence, R. I. Towing-machine	562,316	June 16	2197	534 535	75	1828
Manton, Frank S., assignor to American Ship Windlass Company, Providence, R. I. Ship-windlass attachment	562,474	June 23	2467	593	75	1894
Manton, Joseph P., Providence, R. I. Apparatus for singeing cloth	569,109	Oct. 6	671	156	77	128
Manton, Joseph P., Providence, R. I. Ship's windlass	569,110	Oct. 6	672	156 157	77	128
Manuel, George W., New Orleans, La. Furnace-cleaner	555,870	Mar. 3	644	154 155	74	1249
Manufacturers' Automatic Sprinkler Company. (See Siver, Charles W., assignor.)						
Manvell, Theodore W., Brooklyn, N. Y. Ribbon for type-writing machines	554,706	Feb. 18	1602	377	74	837
Mapel, Ora A., Statler's Run, W. Va. Puzzle	574,158	Dec. 29	3737	891	77	2049
Marable, Benjamin F., assignor of one-half to M. Hanley, Dubuque, Iowa. Saw-dressing device	568,782	Oct. 6	123	29	77	25
Marable, John H., Sr., et al. (See Harvey, James M., assignor.)						
Marbach, Herman L., assignor of one-half to O. P. Moon, Lorain, Ohio. Hydrocarbon-burner	566,598	Aug. 25	2968	724	76	1229
Marbach, Leopold M. (See Laganke and Marbach.)						
Marble, Edwin H. (See Marble, Edwin T. and E. H.)						
Marble, Edwin T. and E. H., Worcester, Mass. Mechanism for sewing webs of fabric	568,032	Sept. 22	2274	551	76	1746
Marble, Galett L., Seattle, Wash. Heating and ventilating apparatus	568,954	Oct. 6	407	91	77	78
Marble, T. J. (See Bailey, Effie A., assignor.)						
Marbury, John, Memphis, Tenn. Dipper	558,503	Apr. 21	1754	426	75	365
Marceau, Alfred, Newark, N. J. Ball-bearing	559,902	May 12	1024	227	75	889
Marceau, David. (See Drolet and Marceau.)						
Marceau, Theodore C., San Francisco, Cal. Producing photographs in relief	567,748	Sept. 15	1769	425	76	1639
Marceau, Theodore C., San Francisco, Cal. Producing photographs in relief	574,069	Dec. 29	3575	853	77	2021
Marceau, Ulric. (See Drolet and Marceau.)						
March, John M., et al. (See Chesney, Oliver M., assignor.)						
Marchand, Francis T. and G. E., Annapolis, Md. Distance instrument	563,196	June 30	3772	903	75	2164
Marchand, George E. (See Marchand, Francis T. and G. E.)						
Marchand, Paul E., Ottawa, Canada. Electric switch	557,848	Apr. 7	580	138	75	106
Marchant, John J., Rio Janeiro, Brazil. Generator	566,203	Aug. 18	2272	555 556	76	1081
Marcil, L. N. (See Barselon, Alexandre, assignor.)						
Marco, John M., Philadelphia, Pa., assignor to Knowles Loom Works, Worcester, Mass. Shedding mechanism for looms	561,266	June 2	324	81	75	1432
Marcotte, Ephrem, Las Vegas, assignor of one-half to R. Bohrisch, East Las Vegas, N. Mex. Ter. Hanger for brake-beams	570,323	Oct. 27	2878	683	77	582
Marcus Mason Manufacturing Company. (See Wiggin, William H., assignor.)						
Marcus, Siegfried, Vienna, Austria-Hungary. Incandescent hydrocarbon-lamp	558,589	Apr. 21	1895	459	75	390
Marcuse, Hugo, Berlin, Germany. Automatic switch-arm for telephone-receivers	568,577	Sept. 29	3247	781 782	76	1942
Marden, Aldis H., Watertown, Mass. Ball-caster	555,578	Mar. 3	159	33	74	1159
Mardis, Martin L., Salem, Ohio. Car-coupling	571,274	Nov. 10	1322	360	77	950
Margraf, Fricke & Co. (See Thompson, John L., assignor.)						
Marhoff, Jesse. (See Marhoff, Walter E. and J.)						
Marhoff, Walter E., Galesburg, and J. Marhoff, Olivet, Mich. Easel	562,138	June 16	1905	461	75	1773

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Marichal, Arthur. (See Good and Marichal.)						
Marichal, Arthur, assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Valve	556,547	Mar. 17	1947	454	74	1526
Marichal, Arthur, assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Valve	573,607	Dec. 22	2721	647	77	1848
Marichal, Arthur, Brussels, Belgium, assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Pump	556,548	Mar. 17	1948	454	74	1526
Marichal, Arthur, Brussels, Belgium, assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Valve	556,549	Mar. 17	1949	455	74	1526
Marietta Manufacturing Company. (See Brinser, James D., assignor.)						
Marion, Henri, Annapolis, Md. Message-holder for use with homing pigeons	569,111	Oct. 6	673	157	77	123
Marion Manufacturing Company. (See Huddle, William, assignor.)						
Marion Steam Shovel Company. (See King and Barnhart, assignors.)						
Maris, Charles E., Philadelphia, Pa. Brake for hoisting-machines	554,131	Feb. 4	615	139	74	617
Marix, Paul, Paris, France. Indicating and registering apparatus for meters	558,736	Apr. 21	2146	518	75	437
Marix, Paul, Paris, France. Indicating and registering apparatus for meters	559,394	May 5	79	17	75	696
Mark, John D., Chicago, Ill. Propeller for ships	565,170	Aug. 4	411	99	76	693
Markham, Samuel H., Pittsburg, Pa. Micrometer-calipers	561,802	June 9	1326	318	75	1645
Markham, William F., Plymouth, Mich. Spring air-gun	553,716	Jan. 28	2197	521	74	454
Markham, William F., Plymouth, Mich. Air-gun	557,849	Apr. 7	582	138	75	110
Markley, John A., assignor of three-fifths to J. C. Carpenter, J. A. Roberts, J. L. Duncan, and J. C. King, Clifton Forge, Va. Pedestal for car-trucks	552,768	Jan. 7	486	120	74	92
Markley, John A., Clifton Forge, assignor of three-fifths to H. Firmstone, Longdale, Va. Equalizing device for railway-brakes	573,677	Dec. 22	2875	678	77	1877
Markmann, Anton, Jersey City, N. J. Paper-hanging machine	569,835	Oct. 20	1967	468	77	399
Markowsky, John, Philadelphia, Pa. Dental forceps	560,419	May 19	1977	452	75	1115
Marks, Alphonso, McComb, Ohio. Saw-guide	561,411	June 2	614	153	75	1487
Marks, Richard J., assignor of one-half to W. P. O Toole, Hartford, Conn. Electroplating apparatus	574,038	Dec. 29	3519	846	77	2010
Marks, William D., assignor to American Electric Meter Company, Philadelphia, Pa. Dent for ratchet-wheels	571,050	Nov. 10	1126	263	77	877
Marks, William D., assignor to American Electric Meter Company, Philadelphia, Pa. Electric meter	573,021	Dec. 15	1637	393	77	1629
Markussen, Henry, Croton, N. J. Wagon-standard	553,171	Jan. 14	1239	301	74	247
Marlett, Harvey L., Alpena, S. D. Car-mover	552,537	Jan. 7	59	17	74	14
Marlin Fire Arms Company. (See Henburn, Lewis L., assignor.)						
Marlin, Harry A. (See A. Abrahams, John W., assignor.)						
Marohn, Ferdinand, Milwaukee, Wis. Producing ointment bases from raw wool-fat	556,014	Mar. 10	929	221	74	1323
Marquand, Augustus J., Cardiff, and D. Lowdon, Barry Dock, England. Manufacture of electrical resistances	571,429	Nov. 17	1878	448	77	1030
Marquand, Theodore F., Florence, Ariz. Horse-power	556,583	Mar. 17	2002	468	74	1536
Marquart, Rudolf, assignor of two-thirds to E. Pfister, New York, E. B. Tompkins, Brooklyn, and R. C. Fisher, New Rochelle, N. Y. Fender and automatic brake mechanism	563,498	July 7	444	103	76	85
Marquart, Rudolf, New York, assignor to himself, R. C. Fisher, New Rochelle, and E. B. Tompkins, Brooklyn, N. Y. Stone-dressing machine	563,499	July 7	446	103	76	86
Marr, Alexander W., assignor to Nation l Cash Register Company, Dayton, Ohio. Transferring and resetting mechanism for cash-registers	570,178	Oct. 27	2564	610	77	525
Marrs, Marcus, Howell, Tenn. Wagon-bed hoister	553,288	Jan. 21	1467	352	74	303
Marshall, Adolf J., Little Falls, N. Y. Rennet test for milk	553,349	Jan. 21	1567	374	74	320
Maraden, Algernon M., London, England. Mechanism for advertising purposes	553,415	Jan. 21	1673	399	74	341
Maraden, John F., Baltimore, Md. Combined pen wiper and rack	566,330	Aug. 25	2483	608	76	1138
Marsden, Mark W., Philadelphia, Pa. Floating dry-dock and ship-cleaning device	570,489	Nov. 3	96	23	77	656
Marsden, Mark W., Philadelphia, Pa. Corn product and making same	572,019	Nov. 24	2816	665	77	1224
Marsden, Mark W., Philadelphia, Pa. Reduction of pithy plants	572,091	Nov. 24	2996	703	77	1256
Marsh, Calvin D., assignor to Rowley & Hermance Company, Williamsport, Pa. Molding or sticking machine	556,015	Mar. 10	930	221	74	1323
Marsh, Calvin D., assignor to Rowley & Hermance Company, Williamsport, Pa. Door or blind clamping machine	556,684	Mar. 17	2153	503	74	1564
Marsh, Charles W. E., et al. (See Price, Benjamin, assignor.)						
Marsh, Converse D. (See Aylsworth, Jonas W., assignor.)						
Marsh, Edward A., Newton, Mass. Mailing or shipping package for watches	555,322	Feb. 25	2711	635	74	1060
Marsh, Edward B., Amherst, Mass. Corner-bead	562,783	June 23	3001	725	75	1995
Marsh, George A., Carnegie, Pa. Softening base bullion	569,293	Oct. 13	995		77	205
Marsh, George A., Carnegie, Pa. Softening base bullion. (Reissue)	11,579	Dec. 8	1505		77	1587
Marsh, John A., St. Louis, Mo. Device for operating railway-switches	571,006	Nov. 10	1055	246	77	863
Marsh, Joseph W., assignor to Standard Underground Cable Company, Pittsburg, Pa. Electric connection	558,971	Apr. 28	2560	620	75	532
Marsh, Marion B., et al. (See Allen, Fred E., assignor.)						
Marsh, William T., Rich Hill, Mo. Box-lid holder	573,156	Dec. 15	1878	452	77	1674
Marshall, Cassius M., assignor of one-half to A. N. Berry, Frankfort, Ind. Exhaust-nozzle	569,561	Oct. 13	1457	344	77	291
Marshall, Charles K., Tacoma, Wash. Wrecking-frog	564,093	July 14	1513	354	76	297
Marshall, Dana K., Manchester, N. H. Musical figure	569,219	Oct. 13	866	204	77	181
Marshall, Eli, Henfield, England. Fly-catcher	559,184	Apr. 28	2970	718	75	609
Marshall, Ferguson, Philadelphia, Pa. Revolving plow	561,717	June 9	1178	280	75	1618
Marshall Gold Saver Company. (See Marshall, John, assignor.)						
Marshall, Henry H., Lincoln, Nebr. Draft mechanism for railway-cars	555,520	Mar. 3	60	13	74	1141
Marshall, James. (See Jackson, William H., assignor.)						
Marshall, James, Fall River, Mass. Drying-rack	563,605	July 7	625	146	76	117
Marshall, James, Fall River, Mass. Means for conveying steam from tubs	573,340	Dec. 15	2222	531	77	1736
Marshall, James J., Sydney, New South Wales. Driving-gear for cycling-machines	567,787	Sept. 15	1828	438	76	1650
Marshall, John, Mansfield, Ohio. Swinging saw for sawing meats, &c	555,649	Mar. 3	292	68	74	1182
Marshall, John, assignor to Marshall Gold Saver Company, Fairfield, Cal. Apparatus for separating gold from sand, &c	568,913	Oct. 6	331	76	77	64
Marshall, Joseph. (See Morton and Marshall.)						
Marshall, Lewis C., assignor to F. W. Bird & Son, Walpole, Mass. Car-roof	563,718	July 7	812	194	76	152
Marshall, Norman, Boston, Mass. Electric switch	556,510	Mar. 17	1885	439	74	1515
Marshall, Porter, Fair Play, Mo. Sash-balancing device	561,014	May 26	3050	702	75	1331
Marshall, Robert E., Wilmington, Del. Air-brake apparatus	560,730	May 26	2558	588	75	1238
Marshall, T. Hill. (See Randall, James, assignor.)						
Marshall, Waldo H., assignor to W. V. Kelley, Chicago, Ill. Truck-bolster	565,481	Aug. 11	960	229	76	816

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Marshall, William R., East Saginaw, Mich. Fan-concentrator	566,000	Aug. 18	1944	{ 470 471	76	1020
Marshall, William R., East Saginaw, Mich. Fan-concentrator	566,001	Aug. 18	1946	471	76	1020
Marshall, William R., assignor to Allington & Curtis Manufacturing Company, East Saginaw, Mich. Dust-collector	556,357	Mar. 17	1603	374	74	1461
Marshbank, Andrew J., Lansdale, assignor to D. Fleming and M. E. Hershey, Harrisburg, Pa. Mechanical stoker	559,860	May 12	937	209	75	873
Marshman, Newman R. (See Burrigide and Marshman.)						
Marshman, Newman R., and L. S. Burrigide, assignors to H. E. Payne, New York, N. Y. Type-writing machine	565,171	Aug. 4	413	{ 99 100	76	693
Marso, John N., Joliet, Ill. Pipe-cutter	554,028	Feb. 4	415	91	74	581
Marston, George H. (See Weston and Marston.)						
Marston, Oliver H., Stoneham, Mass. Paper-folding machine	557,310	Mar. 31	3265	{ 783 784	74	1810
Marteeny, Tillman A., Kansas City, Mo. Skating-cycle	573,096	Dec. 15	1777	427	77	1656
Martin, Albert L. (See West, William A., assignor.)						
Martin, Charles B., Schenectady, N. Y., assignor to General Electric Company, of New York. Insulator	574,101	Dec. 29	3634	868	77	2031
Martin, Charles B., and E. M. Hewlett, Schenectady, N. Y., assignors to General Electric Company, of New York. Insulator	570,034	Oct. 27	2306	548	77	475
Martin, Charles E., Parsons, Pa. Bicycle	563,292	July 7	100	24	76	21
Martin, Charles R., Redondo, Cal. Wave-motor	562,317	June 16	2201	{ 535 536	75	1829
Martin, Charles W. (See Wetteroth, William, assignor.)						
Martin, Cyrus R., et al. (See Cook, Marion P., assignor.)						
Martin, Cyrus S., Rockford, Ill. Means for setting tires	568,363	Sept. 29	2860	687	76	1871
Martin, Daniel, Cambridge, Mass. Carpenter's square	569,220	Oct. 13	868	204	77	181
Martin, David C., Hagerstown, Md. Display-rack	562,007	June 16	1682	409	75	1732
Martin, Denis P., E. Hervais, and F. Loppé, Paris, France. Brake for vehicles	555,871	Mar. 3	646	{ 155 156	74	1249
Martin, Edmund D., assignor to A. C. Freitag, New Orleans, La. Inhaler	564,628	July 28	2443	575	76	498
Martin, Frank. (See Storer and Martin.)						
Martin, Frank A., Harrison, Ohio. Plow-point	570,673	Nov. 3	476	111	77	727
Martin, Frank D., Perkinville, Vt. Bracket	573,891	Dec. 29	3244	772	77	1960
Martin, Fuchs M. (See Smith, Haydon, and Urry, assignors.)						
Martin, George H. (See Townsend, Frank B., assignor.)						
Martin, Gertrude L. (See Lee, Rufus K., assignor.)						
Martin, Henry A., Hartford, Conn. Telephone-transmitter	563,935	July 14	1228	287	76	243
Martin, Henry B. (See Lucas, Thomas H., assignor.)						
Martin, Henry D., Shirley, and J. P. Tolman, Newton, assignors to Samson Cordage Works, Boston, Mass. Spinning and twisting frame	566,204	Aug. 18	2273	556	76	1081
Martin, Henry D., Shirley, and J. P. Tolman, Newton, assignors to Samson Cordage Works, Boston, Mass. Separator for spinning and twisting frames	566,205	Aug. 18	2277	557	76	1082
Martin, Henry H., Louisville, Ky. Toy bicycle	560,103	May 12	1398	314	75	960
Martin, Henry J., Chicago, Ill., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Wrench	557,311	Mar. 31	3271	784	74	1811
Martin, Jacob M. (See Stoner and Martin.)						
Martin, James, Baltimore, Md. Sand-distributor	554,603	Feb. 11	1419	332	74	785
Martin, James A., and J. L. Latta, Hickory, N. C. Compressed-air water-elevator	569,294	Oct. 13	997	239	77	206
Martin, James E., assignor to Carpet Loom Company, Worcester, Mass. Needle-loom	573,827	Dec. 22	3126	745	77	1924
Martin, James, J. McCarty, and T. Craft, Pittsburg, Pa. Penholder	556,511	Mar. 17	1888	439	74	1515
Martin, James W., Webb, Tex. Churn	565,552	Aug. 11	1115	269	76	842
Martin, James W., Manchester, England. Hoist, &c	573,678	Dec. 22	2878	679	77	1877
Martin, Jeremiah M. (See Reppeto and Martin.)						
Martin, Jerome W., Nashville, Tenn. Wire-and-picket-fence machine	558,504	Apr. 21	1755	426	75	365
Martin, John A., Morganfield, Ky. Band-saw guide	567,859	Sept. 15	1859	{ 469 470	76	1675
Martin, John C., et al. (See Henwood, John, assignor.)						
Martin, John M., New York, N. Y. Saddle-flap retainer	567,278	Sept. 8	967	229	76	1474
Martin, John S., Baughman, Ohio. Fence-stay	564,439	July 21	2109	493	76	419
Martin, Jonathan, Topeka, Kans. Nut-lock	573,032	Dec. 15	1639	394	77	1629
Martin, Joseph L., Dawson, Pa. Journal-box	571,490	Nov. 17	1879	448	77	1030
Martin, Lewis, New York, N. Y. Fountain-pen	558,293	Apr. 14	1381	337	75	279
Martin, Matthew B. (See Martin, William W., assignor.)						
Martin, Oliver H., et al. (See Lippard, James H., assignor.)						
Martin, Philip R., Buffalo, N. D. Tension device for grain-binding machines	568,621	Sept. 29	3334	798	76	1959
Martin, Ralph, assignor of one-half to H. Clarke, St. Paul, Minn. Photographic salting solution	560,003	May 12	1201	.....	75	924
Martin, Robert H., Brooklyn, N. Y. Composition of matter	569,759	Oct. 20	1847	.....	77	376
Martin, Samuel W., assignor to Mast, Foos & Company, Springfield, Ohio. Lawn-mower	560,514	May 19	2131	487	75	1142
Martin, Thomas J., Jr. (See Fagan, Maurice E., assignor.)						
Martin, Thomas M. (See Parkinson, Martin, and Bowen.)						
Martin, Thomas M., and J. Parkinson, assignors to Pacific Elevator Company, Los Angeles, Cal. Elevator or other carrier	561,679	June 9	1097	{ 263 264	75	1602
Martin, Thomas N., Cheyenne, Wyo., assignor of one-third to F. D. Johnston, Omaha, Nebr. Pole-tip	565,412	Aug. 4	832	196	76	771
Martin, Wesley B., Allegheny, Pa. Feed-box	557,590	Apr. 7	111	28	75	22
Martin, William. (See McKenzie and Martin.)						
Martin, William H., Mobile, Ala. Elevated-track cycle	559,298	Apr. 28	3181	{ 768 769	75	648
Martin, William H., National Military Home, Cal. Life-saving device for railway purposes	561,267	June 2	326	82	75	1432
Martin, William H., National Military Home, assignor of one-half to J. N. Armstrong, Los Angeles county, Cal. Life-saving device for railway purposes	555,177	Feb. 25	2445	{ 579 580	74	1010
Martin, William S., Des Moines county, Iowa. Mechanical whip	558,087	Apr. 14	1040	254	75	213
Martin, William T., Dayton, Wash. Hand-pad for writing purposes	565,765	Aug. 11	1498	366	76	915
Martin, William W., Brentwood, Tenn., assignor of one-half to M. B. Martin, Brooklyn, N. Y. Twine-lock	566,272	Aug. 18	2372	581	76	1100
Martindale, Benjamin F., and F. D. Moore, Fort Scott, Kans. Press	561,265	June 2	315	80, 81	75	1429
Martindale, Benjamin F., Wichita, assignor of one-third to E. R. Mead and E. E. Hale, Fort Scott, Kans. Baling-press	573,023	Dec. 15	1640	394	77	1629
Martindale, E. D. (See Fellay, Louis J., assignor.)						
Martindale, John H., Russell, Pa. Measuring-can for dispensing liquids	561,718	June 9	1178	280	75	1618
Martindale, Montagu D., London, England. Wrench	568,692	Sept. 29	3468	830	76	1984

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Martinez, Richmond J. (See King, William, assignor.)						
Martini, Jean R. (See Nouel and Martini.)						
Martinson, Andrew, La Crosse, Wis. Staple-puller.....	564,094	July 14	1514	354	76	298
Martyr, Ernest E. (See Martyr, Leonard W. and E. E.)						
Martyr, Leonard W. and E. E., Galveston, Tex. Rocking-chair fan.....	564,566	July 21	2328	546	76	458
Marvel, Theodore L., Taunton, Mass. Endless bucket conveyer.....	567,683	Sept. 15	1658	399	76	1618
Marvin, Walter R. (See Bonnett, Clarence R., assignor.)						
Marx, Conrad, Brooklyn, N. Y. Baby-carriage.....	572,658	Dec. 8	1000	241	77	1489
Marx, George B., New York, N. Y. Coal-wagon.....	558,590	Apr. 21	1897	459	75	391
März, Margaretha, and L. Sack, New York, N. Y. Manufacture of shoes.....	567,149	Sept. 8	743	173	76	1434
Marzahn, William F., Buffalo, N. Y. Dynamo-electric machine.....	571,780	Nov. 24	2396	{ 572 573 }	{ 77 77 }	{ 1145 1145 }
Maschinenbau-Actien-Gesellschaft Nürnberg. (See Behrends, Robert, assignor.)						
Maschke, Salli, Berlin, Germany. Hot-air steam-bath apparatus.....	568,622	Sept. 29	3335	799	76	1939
Mase, August F. (See Mase, Frederick W., assignor.)						
Mase, Frederick W., Oshkosh, Wis., assignor of one-half to A. F. Mase, Milwaukee, Wis. Bridge-gate.....	552,192	Apr. 14	1208	295	75	246
Maske, Robert W., Chicago, Ill. Dust collector and separator.....	561,599	June 9	963	230	75	1578
Maskelyne, John N., Jr., London, England. Type-writing machine.....	560,142	May 12	1461	{ 329 330 }	{ 75 75 }	{ 973 973 }
Masland, Maurice H., Philadelphia, Pa. Yarn-dyeing machine.....	555,609	Mar. 3	212	49	74	1169
Maslin, John, and M. J. McHugh, Jersey City, N. J. Bottle-washer.....	558,505	Apr. 21	1757	427	75	365
Mason, Alfred J., Jr. (See Paice, Alexander, assignor.)						
Mason, Arthur. (See Meats and Mason.)						
Mason, Au & Magenheimer Confectionery Manufacturing Company. (See Magenheimer, Louis, assignor.)						
Mason, Charles H., Shortsville, N. Y., assignor to Empire Drill Company, of New York. Horse hay-rake.....	572,647	Dec. 8	981	236	77	1485
Mason, George W., Sharon, Pa. Bottle-stopper.....	570,602	Nov. 3	314	77	77	697
Mason & Hamlin Company. (See Kelly, George B., assignor.)						
Mason, Herbert W., Glens Falls, N. Y. Egg-beater.....	567,909	Sept. 15	2025	486	76	1689
Mason, John T., <i>et al.</i> (See Hall, William H., assignor.)						
Mason Machine Works. (See Meats, John T., assignor.)						
Mason Machine Works. (See Meats and Dean, assignors.)						
Mason Machine Works. (See Meats and Eaton, assignors.)						
Mason Machine Works. (See Meats and Mason, assignors.)						
Mason Machine Works. (See Wilkinson, Jabez, assignor.)						
Mason Regulator Company. (See Mason, William B., assignor.)						
Mason, Richard, and F. Ely, Newark, N. J. Ball-caster.....	570,603	Nov. 3	315	77	77	697
Mason, Robert, Boston, Mass. Offset for printing-presses.....	566,206	Aug. 18	2220	{ 557 558 }	{ 76 76 }	{ 1022 1022 }
Mason, Sidney. (See Moreau and Mason.)						
Mason, Silas B. (See Montgomery, John A., assignor.)						
Mason, Walter L., Red Bank, N. J. Detachable porcelain crown for bridgework.....	559,185	Apr. 28	2971	718	75	609
Mason, Walter L., Red Bank, N. J. Detachable porcelain tooth-crown.....	566,695	Aug. 25	3117	761	76	1257
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Punch.....	560,515	May 19	2133	488	75	1143
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Locking means for operating handles of breech-loading guns.....	564,440	July 21	2111	493	76	419
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Safety-stop for operating-bars of breech-loading firearms.....	564,441	July 21	2112	494	76	419
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Detachably uniting gun-barrels with stocks.....	565,766	Aug. 11	1499	366	76	915
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Safety device for action-bars of bolt-guns.....	565,767	Aug. 11	1503	366	76	915
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Reducing-die for cartridge-cases.....	570,760	Nov. 3	629	145	77	753
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Damper-regulator.....	561,600	June 9	964	{ 230 231 }	{ 75 75 }	{ 1578 1578 }
Mason, William H., East Monroe, Ohio. Fence.....	571,491	Nov. 17	1880	449	77	1030
Massey, Andrew J., Shilo, and J. W. Stallings, Dallas, Tex. Strainer for coffee-pots.....	559,459	May 5	195	42	75	719
Massey, John R. (See Lean and Massey.)						
Massey, Joseph B. G., Llano, Tex. Wire stretcher and splicer.....	560,731	May 26	2559	589	75	1238
Massie, Mitford C. (See Wiltshire and Massie.)						
Mast, Foos & Company. (See Martin, Samuel W., assignor.)						
Mast, P. P., <i>et al.</i> (See Hoskins, Thomas D., assignor.)						
Mast, Peter, Bowling Green, Ohio. Gate.....	566,331	Aug. 25	2484	609	76	1138
Mast, Peter, Delphos, Ohio. Apparatus for manufacturing wire fencing.....	566,332	Aug. 25	2485	609	76	1138
Mast, William J. D., assignor to John C. Jewett Manufacturing Company, Buffalo, N. Y. Alcohol-lamp.....	560,319	May 19	1798	409	75	1082
Masters, Frederick W. (See Briggs and Masters.)						
Mastin, Moody M., Hicksville, Ohio. Child's carriage.....	561,412	June 2	616	153	75	1487
Matatall, Albert H. and I. C., Harrison, N. J. Electrically-welded pipe-joint.....	569,836	Oct. 20	1968	468	77	399
Matatall, Ira C. (See Matatall, Albert H. and I. C.)						
Mater, Henry, La Gro, Ind. Fence-post.....	573,097	Dec. 15	1779	427	77	1656
Matheny, John, Indianapolis, Ind. Safety egg-case.....	569,760	Oct. 20	1848	438	77	376
Mather, Alonzo C., Chicago, Ill. Application of power to canal-boats.....	556,016	Mar. 10	932	{ 221 222 }	{ 74 74 }	{ 1323 1323 }
Mather, Alonzo C., Chicago, Ill. Electrical propulsion of canal-boats.....	564,629	July 28	2444	575	76	498
Mather, Charles B., Ottumwa, Iowa. Water-gage.....	564,095	July 14	1515	354	76	298
Mather, Richard H., Windsor, Conn. Steam-engine.....	559,395	May 5	81	17, 18	75	696
Mather, William, Manchester, England. Machine for manufacturing mosaic floor-cloth.....	555,650	Mar. 3	293	68, 69	74	1182
Mathews, Charles G., Athens, Ohio. Suspenders.....	564,829	July 28	2778	661	76	558
Mathews, Frederick, New York, N. Y. Switch for railways.....	553,995	Feb. 4	356	78	74	570
Mathews, John R., <i>et al.</i> (See Lemon and Bartlett, assignors.)						
Mathews, Lowry J., <i>et al.</i> (See Lemon and Bartlett, assignors.)						
Mathews, Patricia W., Eureka, Cal. Hair-cutter's comb.....	567,910	Sept. 15	2026	486	76	1689
Mathews, William A., Gratts, Ohio. Adjustable pattern.....	560,593	May 19	2264	519	75	1167
Mathewson, Arthur W., Lewiston, Me. Railway-head.....	565,084	Aug. 4	214	54, 55	76	657
Mathewson, Charles J., and W. W. Grier, Hulton, Pa.; said Mathewson assignor to said Grier. Door or shutter.....	563,779	July 14	920	220	76	188
Mathewson, Jerry B., assignor of one-half to E. E. Stevens, David City, Nebr. Horse-collar.....	553,350	Jan. 21	1568	374	74	321
Mathias, Georges, Paris, France, assignor to F. J. Elliott, London, England. Hat.....	561,413	June 2	617	154	75	1487

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Mathieu, Napoléon. (See Guérard, Pierre E., assignor.)						
Mathis, August and J. W., Chicago, Ill. Pneumatic despatch apparatus	558,825	Apr. 21	2295	558	75	464
Mathis, Julien W. (See Mathis, August and J. W.)						
Mathison, James, Jersey City, N. J. Windlassing-machine	555,521	Mar. 3	61	13	74	1142
Mathison, Joseph, Somerville, Mass. Machine for attaching buttons	561,015	May 26	3052	702 703 704	75	1332
Mathushek, Victor H., New York, N. Y. Metallic frame for pianofortes	556,273	Mar. 10	1412	331	74	1411
Matsson, Erkes E., Siljansnas, Sweden. Arithmetical apparatus	555,218	Feb. 25	2516	594	74	1023
Mattes, John R., et al. (See Norton, James A., assignor.)						
Matteson, Adelbert, Portland, Oreg. Type-writing machine	567,349	Sept. 8	1099	264 265	76	1497
Matteson, Don C. (See Sears, James R., assignor.)						
Matteson, Frederic C., Burdett, Kans. Double-acting pump	566,405	Aug. 25	2636	643	76	1166
Matteson, Orlando F., Davenport, Iowa. Wire-and-slat-weaving machine	563,197	June 30	3775	903 904	75	2164
Mattfeldt, Otto M., and H. H. Lurssen, Mount Washington, Md. Expansion gear-wheel	568,623	Sept. 29	3337	799	76	1959
Matthern, Charles O. E., Chicago, Ill. Bicycle	559,299	Apr. 28	3183	769 770	75	648
Matthews, Charles, Irwin, Pa. Car-brake	561,414	June 2	618	154	75	1487
Matthews, Charles, Irwin, Pa. Curtain-fixture	564,630	July 28	2446	575 576	76	499
Matthews, Charles E., Huntington, W. Va. Grate attachment	560,143	May 12	1466	331	75	973
Matthews, Christopher C., Alexandria, Ind. Wrench	564,442	July 21	2115	494	76	420
Matthews, Francis M., Cameron, Mo. Insect or vermin guard for organs	569,505	Oct. 13	1357	319	77	272
Matthews, Hugh W., Chicago, Ill. Insect-trap	552,644	Jan. 7	237	66	74	46
Matthews, James F., and H. L. Sherburne, Topeka, Kans. Anti-train-robbery apparatus	562,008	June 16	1684	409 410	75	1733
Matthews, Jephtha W. and R. S., Wilson, Ark. Churn	566,084	Aug. 18	2071	504 505	76	1043
Matthews, Jeremiah H., South Bend, Ind. Sawmill head-block	553,351	Jan. 21	1569	374 375	74	321
Matthews, Joseph, Wyandotte, Mich., assignor of one-half to A. G. Sherman, Cleveland, Ohio. Sheet-metal-rolling mill	556,193	Mar. 10	1269	296	74	1383
Matthews, Joseph, and K. Mott, Brunswick, Ga. Fastening device for hooks and eyes, &c.	557,850	Apr. 7	583	139	75	110
Matthews, Luther, Paris, Tenn. Training hedges	569,720	Oct. 20	1778	422	77	364
Matthews, Robert P. (See Jackson, Perrine, and Matthews.)						
Matthews, Robert S. (See Matthews, Jephtha W. and R. S.)						
Matthews, Walter W. (See Hanna, James O., assignor.)						
Matthews & Willard Manufacturing Company. (See Miller, John C., assignor.)						
Matthiessen, Franz O., Irvington, N. Y. Package elevating and distributing apparatus	552,716	Jan. 7	375	98, 99	74	73
Matthijez, Ernst. (See Symmank and Matthijez.)						
Mattison, Charles D., assignor to H. L. Lufkin, New York, N. Y. Conduit for electric railways	565,085	Aug. 4	228	56	76	658
Mattison, Charles J., Oswego, N. Y. Machine for packing granulated or powdered substances	571,492	Nov. 17	1881	449	77	1031
Mattison, James D., Saginaw, Mich. Roller-bearing	567,150	Sept. 8	744	174	76	1434
Mattson, John. (See Carr, John B., assignor.)						
Mattusch, Frank, Muscatine, Iowa. Button-making machine	553,492	Jan. 21	1803	429	74	365
Mattusch, Frank, Muscatine, Iowa. Blank-cutter	553,493	Jan. 21	1805	429	74	365
Matz, Conrad, Newport, Ky. Machine for perforating cigar-heads	567,947	Sept. 15	2101	506	76	1702
Matzen, Herman, Cleveland, Ohio. Nursing-bottle	554,071	Feb. 4	490	110	74	595
Matzinger, John, Mount Vernon, assignor of one-half to O. R. W. Worm, New York, N. Y. Car fender and brake	563,606	July 7	626	146	76	118
Maubeuge, Félicien, Termonde, Belgium. Double acting mechanical fuse	565,172	Aug. 4	417	100 101	76	694
Maud, William R., Pontefract, England. Corkscrew	561,016	May 26	3057	704	75	1333
Mauerman, William B., and G. Wunderlich, Philadelphia, Pa. Bedstead attachment	559,186	Apr. 28	2972	718 719	75	610
Mauldin, Columbus S., Wolfe City, Tex. Convertible corn and cotton planter, stalk-cutter, and roller	559,300	Apr. 28	3185	770	75	649
Mauran, William A., Providence, R. I. Carpet-lining	562,635	June 23	2746	667	75	1946
Maureaux, Paul. (See Arnold, Raiford A., assignor.)						
Maurer, George, Hildale, Pa. Lubricator for coal-cars	553,684	Jan. 28	2141	507	74	442
Mauritzen, James B., and J. C. Tinkle, Clayton, Tex. Ironing-table	566,993	Sept. 1	460	106	76	1368
Mausser, Paul, Oberndorf, Germany. Means for affixing side-arms to guns	572,266	Dec. 1	304	73	77	1337
Mawhinney, Robert J. (See Elliott and Mawhinney.)						
Mawhinney, Samuel. (See Tyler, Abel D., Jr., assignor.)						
Maxfield, William C., assignor of three-fifths to E. J. Swerer, Columbus, Ohio. Dish-cleaner	556,358	Mar. 17	1604	375	74	1462
Maxim, Hiram S., Bexley, assignor to Maxim-Nordenfelt Guns and Ammunition Company, Limited, London, England. Gas-operated ordnance	567,604	Sept. 15	1527	367	76	1591
Maxim, Hosea F., Norfolk, Va. Thermostat	564,567	July 21	2330	546 547	76	458
Maxim, Hudson, Pittsfield, Mass. Cellular explosive charge	552,919	Jan. 14	810	197	74	165
Maxim-Nordenfelt Guns and Ammunition Company. (See Maxim, Hiram S., assignor.)						
Maxon, Stiles E., assignor of one-half to L. W. Wynkoop, J. M. Nickum, and W. J. Kelly, Portland, Oreg. Marine velocipede	573,828	Dec. 22	3129	746	77	1925
Maxon, Thomas. (See Kennedy and Maxon.)						
Maxson, Frank W., Rochester, N. Y. Machine for printing sign-cards	555,106	Feb. 25	2329	553 554	74	988
Maxwell, Anderson, assignor to Watt Mining Car Wheel Company, Barnesville, Ohio. Mine-car-door fastening	565,249	Aug. 4	633	150	76	733
Maxwell, Charles F. (See Maxwell, Edwin F., assignor.)						
Maxwell, David E., et al. (See Beal, William C., assignor.)						
Maxwell, Edmund L., and H. W. Gorman, Los Angeles, Cal. Guard or screen for urinals	571,275	Nov. 10	1524	361	77	950
Maxwell, Edwin F., West Bridgewater, Mass. Rand-trimmer	567,246	Sept. 8	889	212	76	1461
Maxwell, Edwin F., West Bridgewater, assignor of one-half to C. F. Maxwell, North Brookfield, Mass. Rotary seam-rubbing tool	561,017	May 26	3059	704	75	1333
Maxwell, George S., assignor of three-tenths to W. H. and J. N. Cullingworth, Richmond, Va. Telephone-switchboard	562,009	June 16	1687	410	75	1733
Maxwell, George S., assignor of three-tenths to W. H. and J. N. Cullingworth, Richmond, Va. Telephone-switchboard	562,010	June 16	1689	411	75	1734
Maxwell, George S., assignor of one-fifth to W. H. and J. N. Cullingworth, Richmond, Va. Telephone system	562,011	June 16	1690	411	75	1734

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Maxwell, George S., assignor of three-tenths to W. H. and J. N. Cullingworth, Richmond, Va. Telephone-switchboard.....	562,012	June 16	1691	411	75	1734
Maxwell, George S., assignor of three-tenths to W. H. and J. N. Cullingworth, Richmond, Va. Telephone-switch.....	562,013	June 16	1692	411	75	1734
Maxwell, Hu and R. R., Fresno, Cal. Refrigerating apparatus.....	560,516	May 19	2134	488	75	1143
Maxwell, Robert E. (See Maxwell, Hu and R. R.)						
Maxwell, William, St. Louis, Mo. Race-starting machine.....	574,205	Dec. 29	3660	920	77	2070
May, Adolph. (See Kirkpatrick, May, and Stevens.)						
May, Lewis. (See Hart, William H., assignor.)						
May, Peter E., Mineral Point, Wis. Corn-fodder binder.....	566,333	Aug. 25	2488	610	76	1138
May, Redding L., and L. T. Hunter, Trenton, N. C. Millstone-dressing machine.....	562,733	June 23	2917	708	75	1979
May, Samuel, Jr. (See Porter, Daniel R., assignor.)						
May, William D., Niagara Falls, N. Y. Apparatus for electrolytic deposition.....	570,133	Oct. 27	2486	589	77	509
Maydwell, Harry F., et al. (See Browning, George, assignor.)						
Mayer, Daniel. (See Goodwin, George, assignor.)						
Mayer, Daniel. (See Robinson, William, assignor.)						
Mayer, Daniel, London, England. Resonator for stringed musical instruments.....	561,903	June 9	1502	363	75	1679
Mayer, Frederick W., Hartford, Conn. Means for attaching or detaching electric-light globes.....	568,408	Sept. 29	2932	705	76	1825
Mayer, Fritz G. (See Caemmerer and Mayer.)						
Mayer, Fritz G., Chicago, Ill. Dynamo-electric machine.....	561,803	June 9	1327	318	75	1646
Mayer, Gabriel. (See Smalstig and Mayer.)						
Mayer, George, New York, N. Y. Folding baby-carriage.....	554,072	Feb. 4	491	111	74	595
Mayer, James R., Erie, Pa. Sand-heater.....	571,382	Nov. 17	1699	404	77	997
Mayer, Karl, assignor to E. Thalmann, New York, N. Y. Skating-floor.....	557,077	Mar. 24	2831	674	74	1711
Mayer, Otto F., Berlin, Germany. Type-writing machine.....	572,348	Dec. 1	455	107	77	1365
Mayer, Otto F., assignor to C. F. Kindermann & Co., Berlin, Germany. Type-writing machine.....	565,482	Aug. 11	963	229	76	816
				230		
Mayer, Walter S., Galveston, Tex. Envelop.....	572,554	Dec. 8	612	195	77	1449
Mayer, William, et al. (See Conrad, Charles P., assignor.)						
Mayer, William T. (See Michaelis, Gustavus, assignor.)						
Mayes, Wilton P., assignor of one-half to J. W. Lauer, Terre Haute, Ind. Bottle-closure.....	573,518	Dec. 22	2564	609	77	1817
Mayfield, William D., Fort Worth, Tex. Egg-case fastener.....	565,115	Aug. 4	291	69	76	671
Mayhew, James N., Indianapolis, Ind. Axiometer.....	571,781	Nov. 24	2398	573	77	1146
Mayland, Rowland H., et al. (See Craig, Gilbert T., assignor.)						
Maynadier, James E. (See Whitmore, Nathaniel G., assignor.)						
Maynadier, James E., trustee. (See Fullerton, George A., assignor.)						
Maynadier, William M., Baltimore, Md. Fly-catcher.....	560,040	May 12	1276	287	75	937
Maynard, Charles A., Northampton, Mass. Tool-shank.....	565,910	Aug. 18	1770	431	76	984
Maynard, William C., Canton, Ohio. Top.....	566,922	Sept. 1	322	75	76	1344
Maynard, William C., Canton, Ohio. Embroidery-holder.....	570,940	Nov. 10	948	220	77	844
Mayo, Robert D., Frankfort, assignor of one-half to D. A. McLeod, Manistee, Mich. Life-boat.....	565,768	Aug. 11	1505	367	76	916
Mayo, Robert D., Frankfort, assignor of one-half to D. A. McLeod, Manistee, Mich. Life-boat.....	565,769	Aug. 11	1508	367	76	916
Mayo Tobacco Drying and Ordering Company. (See Peple, Charles A., assignor.)						
Mayo, Walter E., Chicago, Ill. Lamp-burner.....	565,625	Aug. 11	1243	300	76	866
Mayr, George, Brooklyn, assignor of one-half to E. Farmer, New York, N. Y. Driving mechanism for bicycle-dynamos.....	553,035	Jan. 14	992	241	74	200
Mayr, Walter A. (See Backof, William C., assignor.)						
Mays, Jonathan A., London, England. Apparatus for separating metals.....	566,921	Sept. 1	320	74, 75	76	1344
McAboy, Isaac E., Huntington, W. Va. Automatic rapid-firing gun.....	566,214	Aug. 18	2290	560	76	1085
McAdams, George F., Brooklyn, N. Y. Line-printing machine.....	553,356	Jan. 21	1582	377	74	323
McAdams, George F., Brooklyn, N. Y. Ringed roller for printing-machines, &c.....	570,226	Oct. 27	2654	630	77	542
McAdams, John, Brooklyn, N. Y. Electric attachment for paper-ruling machines.....	559,190	Apr. 28	2979	720	75	611
McAdams, Sallie R., administratrix. (See Ritter, John L., assignor.)						
McAdoo, Samuel, Toronto, Ohio. Pipe-turner.....	568,996	Sept. 1	464	107	76	1369
McAhee, Joel P., Erie, Ala. Home-fastener.....	553,420	Jan. 21	1680	401	74	342
McAleese, Bernard. (See Pardee and McAleese.)						
McAllister, James P., Columbus, Ohio. Curtain-stretcher pin.....	553,127	Jan. 14	1165	283	74	234
McAllister, James. (See Benham and McAllister.)						
McAllister, William M., et al. (See Lippard, James H., assignor.)						
McArdle, James J., Lincoln, R. I. Nut-lock.....	556,102	Mar. 10	1095	261	74	1352
McArthur, Andrew J., Gainesville, Fla. Thill-coupling.....	557,314	Mar. 31	3275	785	74	1812
McArthur, John S., and C. J. Ellis, Glasgow, Scotland. Extracting gold and silver from ores.....	555,463	Feb. 25	2968		74	1107
McAulay, Daniel C., Port Morien, Canada. Boiler-pressure-indicating alarm.....	566,997	Sept. 1	466	108	76	1370
McAusland, William, Taunton, Mass. Foot for pitchers, &c.....	570,325	Oct. 27	2879	684	77	582
McAvity, George, et al. (See McShane, William, assignor.)						
McAvity, John A., et al. (See McShane, William, assignor.)						
McAvity, Thomas, et al. (See McShane, William, assignor.)						
McBerty, Frank R. (See Scribner and McBerty.)						
McBerty, Frank R., Downer's Grove, assignor to Western Electric Company, Chicago, Ill. Signaling apparatus for telephone-lines.....	562,906	June 30	3243	783	75	2059
McBerty, Frank R., Downer's Grove, assignor to Western Electric Company, Chicago, Ill. Apparatus for selective-signal systems.....	563,294	July 7	102	24	76	22
McBerty, Frank R., Downer's Grove, assignor to Western Electric Company, Chicago, Ill. Apparatus for telephone-switchboards.....	567,404	Sept. 8	1197	286	76	1515
McBerty, Frank R., Downer's Grove, assignor to Western Electric Company, Chicago, Ill. Keyboard apparatus.....	573,992	Dec. 29	3442	824	77	1996
McBerty, Frank R., Downer's Grove, assignor to Western Electric Company, Chicago, Ill. Telephone-exchange apparatus.....	574,255	Dec. 29	3958	941	77	2089
McBeth, William, Hamilton, Canada. Band-saw guide.....	573,028	Dec. 15	1647	396	77	1631
McBride, Albert P., Independence, Kans. Gas, oil, and water separator.....	569,345	Oct. 13	1092	259	77	225
McBride, Henry S. (See Sweet and McBride.)						
McBride, John H., Topeka, Kans. Inkstand.....	568,865	Oct. 6	264	61	77	51
McBride, John, T. Naulty, and S. L. Wiegand, Philadelphia, Pa.; said Naulty and Wiegand assignors to said McBride. Apparatus for unloading railway-cars.....	563,939	July 14	1234	288 } 289 }	76	245
McBrien, Frank, Newark, N. J. Railway-signal.....	562,318	June 16	2203	536	75	1829
McCabe, Bernard, Boston, Mass. Preventing scale in steam-boilers.....	554,530	Feb. 11	1290	302	74	760
McCabe, Bryan C., New York, N. Y. Wheelbarrow.....	562,139	June 16	1907	462	75	1773
McCabe, James, Bay City, Mich. Apparatus for procuring pure water.....	565,686	Aug. 11	1354	329	76	888
McCabe, James S., et al. (See Burton, George D., assignor.)						
McCabe, James W., New York, N. Y. Manufacturing photographic mounts.....	569,510	Oct. 13	1366	320	77	274

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McCabe, Peter, New York, N. Y. Construction of fireproof buildings.....	573,476	Dec. 22	2499	592	77	1805
McCabe, Thomas W. R. (See Woodruff and McCabe.)						
McCabe, Thomas W. R., assignor to William L. Gilbert Clock Company, Winsted, Conn. Calendar-clock mechanism.....	571,198	Nov. 10	1389	{ 324 325 }	77	925
McCabe, William, <i>et al.</i> (See Norman, Addison, assignor.)						
McCadden, Emma, Blair, Nebr. Sad-iron.....	553,813	Jan. 28	2355	560	74	484
McCafferty, James E. (See Cahill, Henry D., assignor.)						
McCaffrey, Joseph G., assignor to A. D. Leuty, Detroit, Mich. Convertible chair.....	564,253	July 21	1790	{ 419 420 }	76	363
McCahey, John, assignor to New England Butt Company, Providence, R. I. Stop-motion for cordage and braiding machines.....	563,295	July 7	105	25	76	22
McCahey, John, assignor to New England Butt Company, Providence, R. I. Spool-carrier for cordage and braiding machines.....	563,296	July 7	106	25	76	22
McCaleb, William, Bluffs, Ill. Band-cutter and feeder.....	561,909	June 9	1509	365	75	1620
McCall, Donald T., Jackson, Mich. Bevel-edge-cardboard cutter.....	570,180	Oct. 27	2572	611	77	526
McCallen, John C., Russellville, Ky. Churn.....	573,993	Dec. 29	3144	824	77	1996
McCallip, William W., Columbus, Ohio. Machine for weaving wire.....	562,641	June 23	2753	{ 668 669 }	75	1948
McCallum, George L., Newerf, Pa. Milk-pail.....	562,734	June 23	2919	708	75	1979
McCallum, James, Aurora, Ill. Wagon running-gear.....	553,290	Jan. 21	1469	353	74	303
McCallum, William A., Avondale, assignor to C. Andrews, Cincinnati, Ohio. Hanger for trolley-wires.....	557,860	Apr. 7	596	141	75	112
McCallum, William A., assignor to C. Andrews, Cincinnati, Ohio. Trolley-wire support.....	568,452	Sept. 29	3003	723	76	1898
McCance, Alexander, White Ash, Pa. Envelop.....	570,289	Oct. 27	2770	659	77	563
McCandless, Alexander, Moberly, Mo. Window-screen.....	570,326	Oct. 27	2850	684	77	582
McCane, Charles T., Rockspring, Ky. Fodder packer and binder.....	571,385	Nov. 17	1703	405	77	998
McCann, Howard L., assignor of one-half to W. P. Jackson, Coatesville, Pa. Nut-lock.....	574,256	Dec. 29	3960	941	77	2089
McCann, James L., Roanoke, W. Va. Railway-spike puller.....	565,687	Aug. 11	1355	329	76	809
McCann, James L., Roanoke, W. Va. Railway-switch.....	569,653	Oct. 20	1636	387	77	340
McCann, William B., assignor to G. C. Courtwright and J. D. Fulmer, Philadelphia, Pa. Ice-cream freezer.....	555,523	Mar. 3	63	14	74	1142
McCarel, William L., assignor of one-half to J. V. Ayer, Brazil, Ind. Curing clay products.....	568,266	Sept. 22	2691	645	76	1824
McCarroll, Walker W., Chicago, Ill. Electrotype-mold builder.....	556,472	Mar. 17	1806	{ 419 420 }	74	1500
McCarthy, Ed, <i>et al.</i> (See Griffin, Thomas J., assignor.)						
McCarthy, Frank E., Allegheny, Pa. Horseshoe.....	570,493	Nov. 3	105	26	77	658
McCarthy, Gerald J., Orange, N. J., assignor to T. S. Meek, Philadelphia, Pa. Knife-sharpener.....	556,716	Mar. 17	2200	514	74	1574
McCarthy, J. J. (See Pickles, Charles K., assignor.)						
McCarthy, John B., and J. A. Griffin, Eckley, Colo. Calf-weaner.....	566,335	Aug. 25	2492	611	76	1139
McCarthy, John C., Fort Wayne, Ind. Oil-can.....	553,563	Jan. 28	1937	458	74	406
McCarthy, Louis, Boston, Mass. Insulating-joint.....	554,394	Feb. 11	1053	246	74	716
McCarthy, Louis, Boston, Mass. Trolley-wire support.....	565,174	Aug. 4	424	102	76	695
McCarthy, Louis, Boston, Mass. Section-insulator.....	570,140	Oct. 27	2496	{ 591 592 }	77	511
McCarthy, Micheal, and J. H. Wehmhoff, Dalton City, Ill. Portable elevator.....	558,829	Apr. 21	2304	{ 559 560 }	75	465
McCarthy, William, Wytheville, Va. Claw-bar.....	566,606	Aug. 25	2980	727	76	1232
McCartney, Albert, assignor to Albert McCartney Company, Chicago, Ill. Fireproof partition for buildings.....	552,539	Jan. 7	62	17	74	15
McCartney, Elizabeth F., New York, N. Y. Bicycle-skirt.....	562,140	June 16	1909	462	75	1774
McCartney, Elizabeth F., New York, N. Y. Bicycle-garment.....	566,004	Aug. 18	1950	472	76	1021
McCartney, James, New York, N. Y. Pincushion.....	571,169	Nov. 10	1344	314	77	917
McCartney, John F., assignor of one-half to G. W. Knapp, Worcester, Mass. Washout-water-closet range or latrine.....	560,740	May 26	2573	{ 592 593 }	75	1241
McCarty, Charles, <i>et al.</i> (See McCartney, Frank, assignor.)						
McCarty, David H., St. Louis, Mo. Steam-generator.....	564,023	July 14	1376	320	76	272
McCarty, Frank, Martin's Ferry, Ohio, assignor of one-third to T. Johns and C. McCarty, Wheeling, W. Va. Apparatus for separating laminated packs.....	558,457	Apr. 14	1673	403	75	333
McCarthy, Joseph. (See Martin, McCarty, and Craft.)						
McCaskey, Perry A., Lisbon, Ohio. Bill and account file.....	560,523	May 19	2143	490	75	1145
McCaskill, Donald A. (See Seanor and McCaskill.)						
McCaughey, John J. (See Dawson, John A., assignor.)						
McCauley, Alice M., Detroit, Mich. Bicycle-skirt.....	567,191	Sept. 8	802	{ 189 190 }	76	1446
McCauley, Daniel, administrator. (See Macaulay, Thomas A.)						
McCauley, John H., assignor of two-thirds to E. M. Winfrey and A. D. Anderson, Wichita Falls, Tex. Window-shade raiser.....	558,198	Apr. 14	1217	296	75	247
McCauley, Marion R., Las Animus, Colo. Mailing-machine.....	559,862	May 12	940	210	75	873
McCauley, Reuben A., Baltimore, Md., assignor to National Burial Company of Baltimore City, of Maryland. Funeral carriage or car.....	557,335	Mar. 31	3310	{ 794 795 }	74	1819
McCauley, William M., <i>et al.</i> (See Harvey, James M., assignor.)						
McCauly, William D., Elmore, Ark. Cultivator.....	568,866	Oct. 6	265	61	77	51
McCausland, William J., Philadelphia, Pa. Means for effecting removal of hides from carcasses.....	561,021	May 26	3064	705	75	1334
McCawly, Joel A., Canton, assignor of one-half to E. R. Street and D. L. Grinter, Cadiz, Ky. Hame-fastener.....	553,012	Jan. 14	960	232	74	194
McCawley, Joel A., assignor of one-half to G. W. Cobb, Canton, Ky. Cistern-cleaner.....	571,278	Nov. 10	1528	362	77	951
McCherry, Thomas, Brooklyn, N. Y. Spike.....	555,965	Mar. 10	833	198	74	1305
McChesney, Edwin, Cincinnati, Ohio. Mucilage-bottle.....	573,994	Dec. 29	3445	824	77	1996
McClain, Jacob S. (See Nevegold, Frederick, assignor.)						
McClanahan, Robert E. (See Andriot and McClanahan.)						
McClay, William S., Uniontown, Pa. Railway-spike.....	562,411	June 23	2355	576	75	1873
McClearen, Martin A., Centerville, Tenn. Automatic car-coupling.....	553,357	Jan. 21	1584	378	74	324
McCleary, Frank O., assignor to B. Shaeffer, Canton, Ohio. Griddle.....	559,037	Apr. 28	2669	650	75	533
McClees, Nelson O. (See Soper, Frank, assignor.)						
McClellan, Benjamin S., New Orleans, La. Hose-hanger.....	565,780	Aug. 11	1524	371	76	919
McClellan, Edward J., New York, N. Y. Lathe.....	572,709	Dec. 8	1098	266	77	1507
McClellan, Edward J., New York, N. Y., assignor to Garvin Machine Company, of New York. Form-turning machine.....	552,717	Jan. 7	379	99	74	73
McClellan, John A., Walnut Springs, Tex. Strainer for coffee-pots, &c.....	558,512	Apr. 21	1771	430	75	368
McClellan, John J. (See Vance, Eldred S., assignor.)						
McClellan, Oscar D., assignor of two-thirds to J. H. Parke and F. Dougherty, Philadelphia, Pa. Apparatus for treating garbage, &c.....	558,974	Apr. 28	2565	{ 621 622 }	75	533

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McClellan, Oscar D., assignor to himself, F. Dougherty, and J. H. Parke, Philadelphia, Pa. Apparatus for cremating garbage, &c.	558,975	Apr. 28	2567	622	75	533
McClellan, Oscar D., assignor to himself, F. Dougherty, and J. H. Parke, Philadelphia, Pa. Apparatus for cremating garbage, &c.	558,976	Apr. 28	2568	623	75	534
McClellan, Oscar D., assignor to himself, F. Dougherty, and J. H. Parke, Philadelphia, Pa. Apparatus for cremating garbage, &c.	558,977	Apr. 28	2570	624	75	534
McClellan, Oscar D., and W. T. Girling, assignors to themselves, J. J. Torpey, and R. Cunningham, Philadelphia, Pa. Means for reheating exhaust-steam.	574,160	Dec. 29	3741	892	77	2050
McClellan, Virgil, Lawson, and G. D. Warren, Villa Park, Colo. Railway-frog.	556,685	Mar. 17	2155	504	74	1565
McClellan, William J., Portland, Conn. Railway-frog.	562,968	June 30	3375	812	75	2089
McClelland, David H., Allegheny, Pa. Railway-switch.	573,477	Dec. 22	2500	592	77	1805
McClelland, George B., et al. (See Webster, Charles A., assignor.)				593		
McClenahan, William J., Philadelphia, Pa. Car-fender.	567,914	Sept. 15	2033	488	76	1691
McCloskey, Charles J., assignor of one-half to R. McCloskey, Philadelphia, Pa. Nut-lock.	558,658	Apr. 21	2012	487	75	412
McCloskey, John, Boston, Mass. Rotary engine.	554,290	Feb. 11	882	203	74	624
McCloskey, Richard. (See McCloskey, Charles J., assignor.)						
McClung, Frank H., Jr., Knoxville, Tenn. Garter and belt.	569,511	Oct. 13	1368	320	77	274
McClung, Herbert J., et al. (See Winters, David L., assignor.)						
McClure, George W., Pittsburg, Pa. Rolling-mill adjustment.	557,861	Apr. 7	598	142	75	113
McClure, George W., Pittsburg, Pa. Hot-blast stove.	573,900	Dec. 29	3257	776	77	1963
McClure, George W., Pittsburg, Pa. Hot-blast stove.	573,901	Dec. 29	3259	777	77	1963
McClure, George W., Pittsburg, Pa. Hot-blast stove.	573,902	Dec. 29	3260	777	77	1964
McClure, George W., Pittsburg, Pa. Hot-blast stove.	574,041	Dec. 29	3526	842	77	2011
McClure, Jesse A. (See Neil, Michael, assignor.)						
McClure Manufacturing Company. (See Wright, Isaac D., assignor.)						
McClure, Pattison F., Pierre, S. D. Inkstand-filling attachment.	567,192	Sept. 8	804	190	76	1446
McClurg, Reuben R., and J. W. Phillips, Doublehead, Ala. Plow-clamp, abutment, and scraper-holder.	557,689	Apr. 7	294	71	75	56
McClymonds, Louis K., assignor to New York Belting and Packing Company, Limited, New York, N. Y. Pneumatic tire.	567,993	Sept. 22	2191	527	76	1732
McColl, Francis P., Brooklyn, N. Y. Package or packing-receptacle.	566,998	Sept. 1	467	108	76	1370
McColl, Francis P., Brooklyn, N. Y. Machine for ridging sheet metal.	566,999	Sept. 1	470	109	76	1370
McColl, Francis P., Brooklyn, N. Y., assignor to Franco-American Patent Can Opening Company, of New Jersey. Metal can.	570,494	Nov. 3	106	26, 27	77	658
McCollin, Thomas H., Philadelphia, Pa. Photographer's press.	569,761	Oct. 20	1849	438	77	376
McCollom, William J., assignor to B. Pierpont and J. F. Kerr, Paterson, N. J. Burglar-alarm.	563,202	June 30	3786	907	75	2166
McConechy, James, Glasgow, Scotland. Wheel for cycles.	572,683	Dec. 8	1044	253	77	1497
McConnell, Jacob Y., Darby, assignor to G. Burnham, E. H. Williams, W. P. Henszey, J. H. Converse, W. L. Austin, S. M. Vaulcain, A. B. Johnson, and G. Burnham, Jr., Philadelphia, Pa. Combination-locomotive.	561,022	May 26	3064	706	75	1334
McConnell, Louis Y., Rochester, N. Y. Voting-machine.	570,812	Nov. 3	706	161	77	769
McConnell, R. F. (See Grogan and Wax, assignors.)				162		
McConway & Torley Company. (See Buhoup, Harry C., assignor.)						
McConway & Torley Company. (See McConway, William, assignor.)						
McConway & Torley Company. (See McConway, Kelso, and Curtis, assignors.) (Reissue.)						
McConway, William. (See Buhoup, Harry C., assignor.)						
McConway, William, assignor to McConway & Torley Company, Pittsburg, Pa. Car-coupling.	553,474	Jan. 21	1767	421	74	359
McConway, William, W. Kelso, Pittsburg, and F. J. Curtis, Ben Avon, assignors to McConway & Torley Company, Pittsburg, Pa. Car-coupling. (Reissue.)	11,546	June 2	872	210	75	1535
McCool, William A., and W. G. Algeo, Jr., assignors to Union Drawn Steel Company, Beaver Falls, Pa. Die for metal-drawing.	567,605	Sept. 15	1328	367	76	1591
McCool, William A., and W. G. Algeo, Jr., assignors to Union Drawn Steel Company, Beaver Falls, Pa. Draw-plate.	567,606	Sept. 15	1529	368	76	1591
McCord, Alvin C. and D. W. Chicago, Ill. Dust-guard for car-axle boxes.	554,079	Feb. 4	505	113	74	598
McCord, Andrew J., and J. F. McGregor, Nashville, Tenn. Trace-carrier.	566,266	Sept. 1	219	51	76	1324
McCord, David W. (See McCord, Alvin C. and D. W.)						
McCorkindale, Duncan L., Childs, Md. Plug.	572,365	Dec. 1	496	116	77	1372
McCormick, Francis J., Sr. (See Rogers, Timothy, assignor.)						
McCormick Harvesting Machine Company. (See Peck, Albert S., assignor.)						
McCormick Harvesting Machine Company. (See Pridmore, Henry E., assignor.)						
McCormick Harvesting Machine Company. (See Pridmore, John W., assignor.)						
McCormick Harvesting Machine Company. (See Severance, James R., assignor.)						
McCormick Harvesting Machine Company. (See Smith, Theodore, assignor.)						
McCormick, Herbert S., Oakland, Cal. Register for folding mattresses.	571,009	Nov. 10	1061	247	77	864
McCormick, James E., Port Jervis, N. Y. Shaper and ditcher.	554,948	Feb. 18	2019	478	74	915
McCormick, James F., West Indianapolis, Ind. Vehicle-wheel.	564,446	July 21	2120	496	76	421
McCormack, John, Brooklyn, N. Y. Harrow.	564,096	July 14	1517	355	76	298
McCormack, John B., Holyoke, Mass. Water-wheel bucket.	560,390	May 19	1763	491	75	1076
McCormack, John B., Holyoke, Mass. Water-wheel.	560,391	May 19	1764	402	75	1077
McCormick, John B., Jr., assignor to himself and J. Dixon, York, Pa. Turbine water-wheel.	554,291	Feb. 11	886	203	74	684
McCormick, John B., Jr., assignor to himself and J. Dixon, York, Pa. Making turbine wheels.	554,292	Feb. 11	887	204	74	684
McCormick, John H., assignor to H. S. Hallwood, Columbus, Ohio. Cash register and indicator.	570,141	Oct. 27	2498	592	77	511
McCormack, John J., Brookline, Mass. Electrical advertising device.	566,087	Aug. 18	2076	506	76	1044
McCormick, John T., San Francisco, Cal. Metallic furring for buildings.	573,158	Dec. 15	1881	453	77	1675
McCormick, Joseph B. (See Roberts and McCormick.)						
McCormick, Michael A., et al. (See Welch, Rosia W., assignor.)						
McCormick, Theodore J., Pomona, Cal. Step-ladder.	569,119	Oct. 6	682	160	77	130
McCormick, Thomas, Berlin, and K. B. Fletcher, Lancaster, N. H. Clean-out valve.	554,344	Feb. 11	978	226	74	700
McCormick, William J., Mount Hope, Wis. Mechanical movement.	556,550	Mar. 17	1950	455	74	1526
McCornack, Herbert, Elgin, Ill. Can-cleaner.	563,505	July 7	461	108	76	88
McCowatt, David, assignor of one-half to D. McCowatt, Jr., Chicago, Ill. Hot-air furnace.	563,240	June 30	3842	921	75	2176
McCown, Noah C., Beaver, Okla. Ter. Green-corn cutter.	564,832	July 28	2782	661	76	559

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McCoy, Daniel, <i>et al.</i> (See Billings, George W., assignor.)						
McCoy, George R., Osceola, Nebr. Combined suspenders and shoulder-braces	560,276	May 19	1724	391	75	1071
McCoy, Harry E. (See Phillis and McCoy.)						
McCoy, James F., Winona, Minn. Cylinder-cock	572,211	Dec. 1	207	51	77	1317
McCoy, Josiah R., Marshalltown, Iowa. Fire-alarm	563,203	June 30	3787	908	75	2167
McCoy, Walter I., <i>et al.</i> (See Conway, John, assignor.)						
McCoy, William H., assignor to Miller's Falls Company, Miller's Falls, Mass. Chuck	568,539	Sept. 29	3183	767	76	1929
McCoy, William J., Santa Barbara, Cal. Trousers-stretcher	561,806	June 9	1334	319	75	1647
McCrary, Thomas J. (See Copeland, Roberts, and McCrary.)						
McCreedy, Charles H., West Bridgewater, Pa. Oscillating engine	558,095	Apr. 14	1058	260	75	217
McCreedy, William F., Homewood, Pa. Carpet-loom	553,253	Jan. 21	1391	339	74	290
McCreary, Edward, <i>et al.</i> (See Manning, Daniel F., assignor.)						
McCreary, Edward, assignor of two-thirds to G. H. Fitts and A. Blyth, Cohoes, N. Y. Car-fender	565,914	Aug. 18	1776	433	76	985
McCreary, Joseph, Toledo, Ohio. Adjustable outlet-gate for ventilating-pipes	574,104	Dec. 29	3638	869	77	2032
McCreery, King. (See Jones and McCreery.)						
McCreight, Bruce B., Du Bois, Pa. Movable index for record-books	563,204	June 30	3789	908	75	2167
McCrosky, William B., Eureka Springs, Ark. Cold-storage apparatus	561,910	June 9	1510	365	75	1680
McCullen, Oscar, Richmond, Va. Mouth-shield	566,730	Aug. 25	3179	777	76	1267
McCulloch, Edward M., Ann Arbor, Mich., and C. Buckley, New Albany, Ind. Bridle-bit	557,862	Apr. 7	599	142	75	113
McCullough, James S., assignor of one-half to J. H. Davidson, Poland, Ohio. Cover for evaporating-pans	566,005	Aug. 18	1951	473	76	1021
McCullough, John L., Brooklyn, N. Y. Magazine-firearm	557,863	Apr. 7	599	143	75	113
McCullough, John L., Brooklyn, N. Y. Target apparatus	561,124	June 2	79	21, 22	75	1382
McCullough, Morgan. (See McCullough, Van Rensselaer and M.)						
McCullough, Van Rensselaer and M. Vernonia; said Van Rensselaer McCullough assignor to said M. McCullough and said M. McCullough assignor of one-half to T. J. Hoare, Multnomah county, Oreg. Device for converting motion	571,679	Nov. 17	2197	529	77	1088
McCully, Robert, Philadelphia, Pa. Stone-breaker	557,216	Mar. 31	3096	742 743	74	1779
McCully, Robert, Philadelphia, Pa. Stone-breaker	566,088	Aug. 18	2077	507	76	1044
McCully, Robert, Philadelphia, Pa. Crushing-machine	566,463	Aug. 25	2774	674	76	1191
McCully, Robert, Philadelphia, Pa. Crusher	566,464	Aug. 25	2776	674	76	1192
McCune, Mervin H., assignor to T. Madden, Son & Co., Indianapolis, Ind. Lounge	558,830	Apr. 21	2306	560	75	466
McCune, William, Carthage, Mo. Combined harrow and pulverizer	559,191	Apr. 28	2982	720	75	611
McCutcheon, William S., El Paso, Tex. Implement for replacing inner tubes of pneumatic tires	570,142	Oct. 27	2506	594	77	513
McDaniel, James, Minneapolis, Minn. Wheat-washing machine	573,686	Dec. 22	2887	682	77	1879
McDaniel, James, Minneapolis, Minn. Wheat-washing machine	573,687	Dec. 22	2888	682 683	77	1880
McDermott, George. (See Bradbury and McDermott.)						
McDermott, Henry, Marinette, Wis. Sawmill set-works	564,530	July 21	2249	527 528	76	445
McDermott, James J. F., assignor of one-half to A. Yoerg, Jr., St. Paul, Minn. Power-transmitter for windmills	559,082	Apr. 28	2744	667	75	566
McDermott, John A., Washington, D. C. Skeleton standing-top rockaway	556,199	Mar. 10	1280	299	74	1385
McDermott, Thomas, and F. P. McNulty, Cincinnati, Ohio. Collar, necktie, and stud fastener	557,141	Mar. 31	2946	705	74	1756
McDermott, William E. (See Ashley and McDermott.)						
McDevitt, M. A. (See Trisler, John R., assignor.)						
McDonald, Alexander, Ashley, Ohio. Field-anchor for check-row corn-planters	564,710	July 28	2567	608	76	522
McDonald, Amos C., Brooklyn, N. Y. Glass-holding attachment for plates	556,200	Mar. 10	1281	299	74	1386
McDonald, Charles B., assignor of one-half to J. O. Armour, Chicago, Ill. Drying apparatus	568,096	Sept. 22	2406	579 580	76	1770
McDonald Cotton Compress Company. (See Gooch, Alphonse S., assignor.)						
McDonald Cotton Compress Company. (See McDonald, Lewis B., assignor.)						
McDonald, Donald, Louisville, Ky. Hopper for charging coal	559,731	May 5	637	153	75	803
McDonald, Frank, Malden, Mass. Heel-spring	553,128	Jan. 14	1166	283	74	234
McDonald, James, assignor of one-half to G. F. Troutwine, Gloversville, N. Y. Belt-fastener	562,643	Dec. 23	2758	669	75	1949
McDonald, James H., Olympia, Wash. Propelling mechanism for boats	573,522	Dec. 22	2570	610	77	1818
McDonald, John, Shinbasi, Japan. Flanged railway and tramway wheel	557,217	Mar. 31	3098	743 332 333 334	74	1780
McDonald, Lewis B., Little Rock, Ark., assignor to McDonald Cotton Compress Company, of Arkansas. Press for baling cotton, &c	556,274	Mar. 10	1412	335 336 337 338	74	1412
McDonald, Lewis B., Little Rock, Ark., assignor to McDonald Cotton Compress Company, of Arkansas. Reciprocator	557,415	Mar. 31	3452	827 828	74	1847
McDonald, Lorenzo D., Atlanta, Ga., assignor to O. Best and J. W. Thomas, Jr., Nashville, Tenn. Cylinder-cock operator for locomotives	560,915	May 26	2900	665	75	1303
McDonald, Martin J., Trenton, N. J. Spring-motor for velocipedes	567,037	Sept. 1	533	125	76	1383
McDonald, Martin J., Trenton, N. J. Power-accumulator	569,049	Oct. 6	572	131 132	77	109
McDonald, Nicholas D., <i>et al.</i> (See Murphy, Thomas P., assignor.)						
McDonald, Robert, assignor of one-half to S. P. Low and G. R. Hendrix, Magalia, Cal. Adjustable socket-wrench	567,405	Sept. 8	1199	287	76	1516
McDonald, Samuel J., Warren, Pa. Steam and oil separator	560,420	May 19	1978	452	75	1115
McDonald, William H., Redlands, Cal. Bottle	568,037	Sept. 22	2223	553	76	1748
McDonald, William R., assignor of one-half to R. Kupperschmidt, Memphis, Tenn. Umbrella-holder for bicycles	558,296	Apr. 14	1384	338	75	279
McDonell, Angus. (See Peterson, Charles, assignor.)						
McDonell, Donald, <i>et al.</i> (See Mitchell, James C., assignor.)						
McDonnell, George P. (See Flucks and McDonnell.)						
McDonnell, John. (See Cotter and Walker, assignors.)						
McDonough, Frank, Eau Clair, Wis. Loading or unloading apparatus	572,023	Nov. 24	2822	666	77	1226
McDonough, James W., Chicago, Ill. Photographic-printing frame	561,685	June 9	1112	265	75	1605
McDonough, James W., Chicago, Ill. Multicolored screen	561,686	June 9	1113	265	75	1605
McDonough, James W., Chicago, Ill. Photographic negative	561,687	June 9	1115	265	75	1606
McDonough, James W., Chicago, Ill. Photographic color-screen	562,642	June 23	2755	669	75	1948
McDonough, Joseph P. (See Latimer, Lewis H., assignor.)						
McDonough, Patrick J., and T. E. Shelly, Bellaire, Ohio. Invalid's drinking-cup	560,916	May 26	2901	665	75	1303
McDougall, Alexander, Duluth, Minn. Coating water-bottoms of vessels	553,590	Jan. 28	1985	470	74	415

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McDougall, Alexander, West Superior, Wis. Hatch-coaming	560,362	May 19	1869	426	75	1095
McDougall, John L., assignor of one-third to D. McMillan, Winnipeg, Canada. Saw-filing machine	553,254	Jan. 21	1392	339	74	290
McDougall, William C., Cheboygan, Mich. Pencil-sharpener and eraser	563,400	July 7	277	62	76	56
McDowall, Robert, Owen Sound, Canada. Machine for sounding and drawing profiles of beds of rivers, &c.	572,610	Dec. 8	923	223	77	1473
McDowell, Alexander, Lynn, Mass. Necktie-holder and collar-clasp	566,215	Aug. 18	2292	561	76	1085
McDowell, Charles E., assignor of one-half to H. W. Gennerich, New York, N. Y. Coin-controlled vending-machine	563,789	July 14	939	223 224	76	192
McDowell, D. F. H., <i>et al.</i> (See Davidson, John M., assignor.)						
McDowell, James T., Ellensburg, Wash. Fire-lighter	558,513	Apr. 21	1772	430	75	369
McDowell, John N., (See Dempster, McDowell, and Kline.)						
McDowell, W. L., <i>et al.</i> (See Davidson, John M., assignor.)						
McDuffee, Andrew J., (See Sunderland, Jesse W., assignor.)						
McDuffee, John L., trustee. (See Schlesinger, William M., assignor.)						
McEachren, John W., (See Clarke and McEachren.)						
McElfresh, Franklin P., Shelby county, Iowa. Trace-carrier	563,873	July 14	1108	261	76	223
McElhiney, Harrison H., St. Louis, Mo. Spoke-socket	555,966	Mar. 10	834	199	74	1306
McElroy, George W., Adrian, Mich. Wrench	570,856	Nov. 3	796	183	77	787
McElroy, James F., Albany, N. Y. Electric heater	555,259	Feb. 25	2592	608	74	1037
McElroy, James F., Albany, N. Y. Multiple-series controller	570,878	Nov. 3	836	194 195	77	795
McElroy, James F., assignor to Consolidated Car Heating Company, Albany, N. Y. Automatic switch	554,080	Feb. 4	507	113 114	74	598
McElroy, James F., assignor to Consolidated Car Heating Company, Albany, N. Y. Gas-burner	555,875	Mar. 3	657	157	74	1251
McElroy, James F., assignor to Consolidated Car Heating Company, Albany, N. Y. Electric switch	562,142	June 16	1911	463 464	75	1774
McElroy, James F., assignor to Consolidated Car Heating Company, Albany, N. Y. Gas-lamp	569,562	Oct. 13	1458	344	77	291
McElroy, James F., assignor to Consolidated Car Heating Company, Albany, N. Y. Gas-lamp	571,311	Nov. 10	1583	376	77	962
McElroy, Joseph A., New York, N. Y. Sliding door	562,141	June 16	1910	462 463	75	1774
McElroy, Stephen D., New York, N. Y. Base-ball-scoring device	565,141	Aug. 4	360	83	76	684
McElroy, William, assignor of two-thirds to G. W. Bayley, Brooklyn, and F. White, New York, N. Y. Insulated joint for light-fixtures	572,124	Dec. 1	54	14	77	1288
McEnhill, William H., and B. B. Richardson, New Brighton, N. Y. Folding bed	567,154	Sept. 8	753	176	76	1436
McEntire, James H., Evansville, Ind. Fire-escape	561,425	June 2	652	160	75	1493
McEvoy, Charles H., Lowell, Mass. Electrical connecting-cord	554,716	Feb. 18	1618	381	74	840
McEvoy, Charles H., Lowell, Mass. Electrical connecting-cord	573,612	Dec. 22	2728	648	77	1850
McEwen, George C., Newark, N. J. Means for controlling flow of liquids	570,436	Oct. 27	3085	732	77	621
McEwen, Lucius B., Bonnet Carré, La. Pull-boat	562,644	June 23	2759	669 670	75	1949
McEwen, Thomas G., assignor to Universal Gas Light and Fuel Syndicate, Limited, London, England. Apparatus for manufacturing gas	562,412	June 23	2356	576	75	1873
McFadden, William H., Allegheny, Pa. Feed-table for rolling-mills	572,175	Dec. 1	142	34	77	1304
McFadden, William H., Allegheny, Pa. Governor for power-shafts	574,209	Dec. 29	3878	923	77	2073
McFall, George S., Crump, Tenn. Cultivator	554,892	Feb. 18	1931	455	74	899
McFall, William H., (See Burger and McFall.)						
McFarland, Arthur W., West Bend, Iowa. Egg and packing separator	556,431	Mar. 17	1740	404	74	1488
McFarland, Frank S., Brooklyn, N. Y. Sash-holder	563,205	June 30	3790	908	75	2167
McFarland, James D., Jr., Prosper, Oreg. Crank-handle	569,346	Oct. 13	1093	259	77	225
McFarland, William E., (See Moors, George F., assignor.)						
McFarlane, James, Glasgow, and W. B. Edgar, Partick, Scotland. Fitting for incandescent electric lamps	565,862	Aug. 11	1676	411	76	949
McFarlane, James L., Medina, Wis. Cutting-tool	572,559	Dec. 8	820	197	77	1450
McFarlane, John, Washington, D. C. Boiler-cleaner	565,387	Aug. 4	790	188	76	763
McFarlane, John, assignor to G. J. Bessler, Washington, D. C. Boiler-cleaner	559,594	May 5	414	99	75	763
McFee, E. M., <i>et al.</i> (See Yeakey, Robert L., assignor.)						
McGahy, John A., New York, N. Y. Fire-alarm	573,903	Dec. 29	3262	779	77	1964
McGann, Thomas F., Somerville, Mass., assignor to Barlow Manufacturing Company. Display rack	554,717	Feb. 18	1619	382	74	840
McGarry, James, Bay City, Mich. Car-ventilator	561,945	June 9	1572	381	75	1692
McGarry, James P., West Bay City, Mich. Journal-bearing	555,109	Feb. 25	2335	554	74	989
McGarry, James P., Bay City, Mich. Hydrocarbon illuminating-lamp	556,361	Mar. 17	1607	375 376	74	1462
McGee, Patrick S., Dodgeville, Mass. Game-board	552,694	Jan. 7	343	90	74	67
McGehee, Abner J., Jackson, Tenn. Pneumatic signaling system	569,120	Oct. 6	683	160	77	130
McGehee, John S., New Orleans, La. Hoisting device	560,145	May 12	1469	331 332	75	974
McGehee, John S., New Orleans, La. Street-sprinkling apparatus	568,540	Sept. 29	3184	767	76	1930
McGiehan, Isaac S., New York, N. Y. Refuse-burner	554,453	Jan. 11	1170	272	74	738
McGiehan, Isaac S., New York, N. Y. Furnace	562,845	June 30	3133	759	75	2037
McGiffin, John L., Scottsdale, Pa. Valve for steam-pumps	558,199	Apr. 14	1219	297	75	247
McGiffin, John L., Scottsdale, Pa. Valve mechanism for steam-pumps	570,042	Oct. 27	2318	550	77	477
McGill, David, London, England. Ticket punching and recording device	557,142	Mar. 31	2947	705	74	1756
McGill, Harry F., Akron, Ohio. Japan-board-point cleaner	570,181	Oct. 27	2573	611	77	526
McGill, John J., assignor of one-half to J. Battle, Thorold, Canada. Electrical connector for arc-lights	556,362	Mar. 17	1609	376	74	1463
McGillivray, George, (See Kahl, Henry, assignor.)						
McGinley, James, Kingston, assignor of two-thirds to J. H. Broderick and J. H. Kenney, Parsons, Pa. Lubricator	570,605	Nov. 3	318	79	77	697
McGinn, Thomas, Stella, N. C. Safety-bottle	565,781	Aug. 11	1525	371	76	920
McGinnis, David Z., C. C. Rowley, and J. S. Bean, North Hope, assignors to W. E. Gamble, Emleuton, Pa. Rope-clamp	563,676	July 7	743	175	76	140
McGinty, Bernard, Doylestown, Pa. File for newspapers, bills, letters, &c.	555,289	Feb. 25	2653	621	74	1049
McGinty, Bernard, Doylestown, Pa. Tympan-gage	573,345	Dec. 15	2229	533	77	1737
McGinty, John H., Mansfield, Ohio, assignor of two-thirds to W. J. Holway, R. Lowe, and F. McKee, Washington, Pa. Oil-can	557,082	Mar. 24	2838	676	74	1713
McGinty, John J., New York, N. Y. Counting or adding machine	562,143	June 16	1914	464	75	1775
McGlashan, Charles F., Truckee, Cal. Ice palace	565,175	Aug. 4	425	102	76	695
McGlew, Thomas, San Francisco, Cal. Pulverizing-mill	565,176	Aug. 4	427	102	76	696
McGloin, Frank, New Orleans, La. Antifriction-bearing	560,322	May 19	1801	410	75	1083

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McGlone, John, St. Louis, Mo. Drying-closet	564,254	July 21	1792	420	76	363
McGonegal, Zora, New York, N. Y., and H. E. Crilly, Allentown, Pa. Cross-tie holder	552,965	Jan. 14	889	215	74	180
McGoodwin, William L. (See Cravens and McGoodwin.)						
McGovern, Hugh, Providence, R. I. Grate	554,193	Feb. 4	710	161	74	635
McGowan, Archibald W. (See Thorneley, Edward, H., assignor.)						
McGowan, James, <i>et al.</i> (See Lemon and Bartlett, assignors.)						
McGowan, Patrick H., Denver, Colo. Concentrator	566,607	Aug. 25	2981	728	76	1232
McGrann, Bernard J., Lancaster, Pa. Vehicle-seat	558,595	Apr. 21	1908	464	75	393
McGrath, Patrick C. (See Dalrymple and McGrath.)						
McGrath, Patrick C., assignor of one-half to H. A. Dalrymple, Rutland, Vt. Razor-strop	556,363	Mar. 17	1610	376	74	1463
McGrath, Patrick C., assignor of one-half to H. A. Dalrymple, Rutland, Vt. Ball-grinding machine	556,364	Mar. 17	1611	377	74	1463
McGrath, Patrick C., assignor of one-half to H. A. Dalrymple, Rutland, Vt. Machine for casting balls	563,206	June 30	3791	909	75	2167
McGrath, Patrick J., Elizabeth, N. J. Upright boiler	567,768	Sept. 15	1797	431	76	1644
McGrath, William H., Fort Wayne, Ind., and J. M. Oram, Dallas, Tex. Electric meter	552,540	Jan. 7	64	18	74	15
McGraw, Thomas F., assignor of one-half to Clancy Brothers, Racine, Wis. Knockdown box	563,506	July 7	463	109	76	89
McGreevey, John A., Burrows, Ind. Straw-harpoon	563,790	July 14	941	224	76	193
McGregor, Bradford, and H. Eichler, Covington, Ky. Paper-file	552,966	Jan. 14	890	216	74	180
McGregor, Duncan J., Duluth, Minn. Snow-plow and rutter	572,212	Dec. 1	208	51	77	1317
McGregor, James, and J. L. Jackson; said McGregor assignor to E. D. Church, Saginaw, Mich. Steam-generator	573,688	Dec. 22	2891	683	77	1880
McGregor, Joel F. (See McCord and McGregor.)						
McGregor, John A., assignor to Edwin Harrington, Son & Company, Incorporated, Philadelphia, Pa. Hoisting-machine	573,904	Dec. 29	3263	779	77	1964
McGregor, Thomas L. (See Crawley, James E., assignor.)						
McGregor, Thomas L., Milwaukee, Wis. Steam-boiler	556,473	Mar. 17	1809	420	74	1501
McGregor, Thomas L., Milwaukee, Wis. Manhole	556,474	Mar. 17	1810	420	74	1501
McGuire, Elwood W., Richmond, Ind. Lawn-mower	554,081	Feb. 4	508	114	74	598
McGuire, Elwood W., Richmond, Ind. Handle attachment for lawn-mowers	561,426	June 2	654	160	75	1494
McGuire, Henry, Memphis, Mich. Animal-poke	553,358	Jan. 21	1585	378	74	324
McGuire Manufacturing Company. (See Hubbard, Moses G., Jr., assignor.)						
McGuire Manufacturing Company. (See McGuire and Hubbard, assignors.)						
McGuire Manufacturing Company. (See McGuire and Perry, assignors.)						
McGuire, Michael G., Chicago, Ill. Umbrella	555,729	Mar. 3	415	95, 96	74	1204
McGuire, Michael L., Syracuse, N. Y. Water-closet	569,383	Oct. 13	1149	273	77	235
McGuire, Robert C., assignor of two-thirds to H. S. Brickell, and T. F. Kirk, Jr., Pittsburgh, Pa. Fender for cars	553,591	Jan. 28	1987	471	74	416
McGuire, Samuel H. (See Leuzinger and Blom, assignors.)						
McGuire, William A., Chicago, Ill. Brake-shoe	563,297	July 7	107	26	76	23
McGuire, William A., and M. G. Hubbard, Jr., assignors to McGuire Manufacturing Company, Chicago, Ill. Car-brake	557,013	Mar. 24	2741	649 650	74	1692
McGuire, William A., and M. G. Hubbard, Jr., assignors to McGuire Manufacturing Company, Chicago, Ill. Car-truck	566,526	Aug. 25	2869	697	76	1210
McGuire, William A., and M. G. Hubbard, Jr., assignors to McGuire Manufacturing Company, Chicago, Ill. Pivotal car-truck	573,029	Dec. 15	1648	396	77	1631
McGuire, William A., and H. M. Perry, assignors to McGuire Manufacturing Company, Chicago, Ill. Street-sweeper	557,416	Mar. 31	3458	828 829	74	1848
McGurn, John, Rochester, N. Y. Nailless horseshoe	566,089	Aug. 18	2080	507	76	1045
McGurty, James H., Jersey City, N. J. Boat-releasing device	556,103	Mar. 10	1096	261	74	1352
McGurty, James H., Jersey City, N. J. Elevated electric railway	560,917	May 26	2902	665 666	75	1303
McHugh, James M., Boston, Pa. Mining-machine	563,401	July 7	278	63	76	56
McHugh, Michael J. (See Maslin and McHugh.)						
McIlhany, Joseph W., assignor of one-half to R. W. Fortune, Lockhart, Tex. Broom or mop holder	566,787	Sept. 1	87	22	76	1296
McIlroy, Archibald Y. and J. L., Tolar, Tex. Rake	569,654	Oct. 20	1638	387	77	341
McIlroy, Joseph L. (See McIlroy, Archibald Y. and J. L.)						
McIntire, Charles H. (See Gartner, Alfred, assignor.)						
McIntire, Charles H. (See Haug, Herman, assignor.)						
McIntire, Charles H. (See Robertson, Duncan M., assignor.)						
McIntire, Charles H., Newark, N. J. Wire-connector	557,690	Apr. 7	295	71	75	56
McIntire, Charles L., South Norridgewock, Me. Checkrein-hook	572,905	Dec. 8	1418	342	77	1571
McIntire, Charles S., Allegheny, assignor to U. S. Cycle Improvement Company, Pittsburgh, Pa. Velocipede-gear	567,155	Sept. 8	755	176	76	1436
McIntire, Jacob N., assignor to Brunswick-Balke-Collender Company, New York, N. Y. Cue-trimmer	555,730	Mar. 3	416	96	74	1204
McIntire, Jacob N., assignor to Brunswick-Balke-Collender Company, New York, N. Y. Billiard-table cushion	561,911	June 9	1511	366	75	1680
McIntire, Jacob N., New York, N. Y., assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Billiard-table cushion	560,170	May 12	1513	342	75	981
McIntire, John W., Chicago, Ill. Bicycle	566,275	Aug. 18	2376	582	76	1101
McIntosh, Alexander, Buda, Tex. Hay-press	567,406	Sept. 8	1200	287	76	1516
McIntosh, Ezekiah P., Denver, Colo. Display refrigerator and counter	570,043	Oct. 27	2322	551	77	477
McIntosh, John S. (See Dias, John C., assignor.)						
McIntosh, Scott, <i>et al.</i> (See Cazier, Perry H., assignor.)						
McIntosh, William, Winona, Minn. Lubricator	566,788	Sept. 1	88	22	76	1297
McIntyre, Charles, Fort Benton, Mont. Centrifugal pump	569,655	Oct. 20	1639	387	77	341
McIntyre, Charles, Fort Benton, Mont. Centrifugal pump	569,656	Oct. 20	1641	388	77	341
McIntyre, Charles, Great Falls, assignor, by mesne assignments, to E. N. McIntyre, Poplar, Mont. Centrifugal pump	564,934	July 28	2963	706	76	593
McIntyre, Elizabeth N. (See McIntyre, Charles, assignor.)						
McIntyre, John C., assignor of three-fourths to Sprague Manufacturing Company, Farnham, N. Y. Corn-silking machine	566,465	Aug. 25	2777	675	76	1192
McIntyre, John J., Hartford, Conn. Umbrella attachment	569,762	Oct. 20	1851	438	77	377
McIntyre, John J., Hartford, Conn. Micrometer-beam gage	571,094	Nov. 10	1213	284	77	892
McIntyre, John W., Philadelphia, Pa. Bench-vice	563,364	Sept. 29	2860	688	76	1871
McIntyre, William, Hartford, Conn. Door-hanger	565,915	Aug. 18	1777	433	76	986
McIntyre, William M., Edgewood Park, Pa. Speed-pulley	562,234	June 16	2060	499	75	1803
McIver, Samuel A., and E. M. Debruhl, Longstreet, La. Broom-head	568,267	Sept. 22	2693	645	76	1824
McKaig, Eddy T., Chicago, Ill. Metal bedstead	552,770	Jan. 7	489	121	74	92
McKaig, Elthera P., Richmond Hill, N. Y. Pilot for railway-cars	553,787	Jan. 28	2308	547 548	74	475

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McKain, George L., Washington, Pa. Tool-fishing apparatus.....	571,279	Nov. 10	1528	362	77	951
McKanna, John J., Houston, Tex. Bicycle-holder.....	554,454	Feb. 11	1172	273	74	738
McKay, Felix E., Troupe, Tex. Apparatus for filling bottles.....	559,733	May 5	638	153	75	804
McKay, George, Norwich, Conn. Interlocked-cordage machine.....	553,623	Jan. 28	2036	{ 481 482 }	74	425
McKay, George D., Minneapolis, Minn. Underwaist.....	561,427	June 2	651	160	75	1494
McKay, Gordon. (See Chase, Frank, assignor.)						
McKay, James. (See McKay, John and J.)						
McKay, John and J., Philadelphia, Pa. Bicycle-railway.....	566,926	Sept. 1	329	77	76	1345
McKay, John L., King's Mountain, N. C. Loom.....	567,351	Sept. 8	1107	267	76	1499
McKay Neverslip Sole Company. (See McKay, Robert, assignor.)						
McKay, Robert, assignor to McKay Neverslip Sole Company, Detroit, Mich. Machine for recessing leather.....	570,558	Nov. 3	236	59	77	682
McKay, Robert, assignor to McKay Neverslip Sole Company, Detroit, Mich. Heel-plate for boots or shoes.....	570,707	Nov. 3	537	124	77	738
McKay, William J., Hamilton, Canada. Valve.....	554,455	Feb. 11	1173	273	74	738
McKechnie, Archibald E., assignor of five-eighths to R. G. Dun, C. J. Kintner, and A. T. Buchanan, New York, N. Y. Bung for barrels.....	571,494	Nov. 17	1886	450	77	1031
McKee, Alexander P., Anderson, Ind. Tool for finishing bottles.....	563,207	June 30	3793	909	75	2168
McKee, Francis A., Belton, Tex. Seed-planter.....	556,551	Mar. 17	1952	455	74	1527
McKee, Frederick. (See Lowe, Robert, assignor.)						
McKee, Frederick, <i>et al.</i> (See McGinty, John H., assignor.)						
McKee, James W. (See Kennedy and McKee.)						
McKee, John, Warren, Ohio. Wire fence.....	562,413	June 23	2357	576	75	1874
McKee, John, Warren, Ohio. Wire fence.....	565,916	Aug. 18	1778	434	76	986
McKee, John C., <i>et al.</i> (See Rively, John D., assignor.)						
McKee, Robert, Philadelphia, Pa. Paper-feeding machine.....	571,601	Nov. 17	2070	{ 496 497 }	77	1064
McKeehan, Samuel K., <i>et al.</i> (See Holder, William H., assignor.)						
McKeen, Thomas L., assignor to I. G. Johnson & Co., New York, N. Y. Buffer for railway-cars.....	554,496	Feb. 11	1240	290	74	750
McKeen, Thomas L., New York, assignor to Trojan Car Coupler Company, Troy, N. Y. Buffer-platform for railway-cars.....	573,187	Dec. 15	1938	466	77	1685
McKeen, Thomas L., and A. H. Renshaw, New York, assignors to Trojan Car Coupler Company, Troy, N. Y. Buffer-platform for railway-cars.....	574,257	Dec. 29	3961	941	77	2089
McKeever, Robert, Alburts, Pa. Handle for steam-valves.....	570,764	Nov. 3	636	146	77	754
McKellops, Henry L. (See Fitch, Thaddeus S., assignor.)						
McKenna, John, Johnstown, Pa. Trolley-wheel.....	559,461	May 5	197	43	75	720
McKenney, Franklin S., Detroit, assignor of one-half to J. M. Longyear, Marquette, Mich. Hand-buttoner.....	563,791	July 14	941	{ 224 225 }	76	193
McKenney, Franklin S., Detroit, assignor of one-half to J. M. Longyear, Marquette, Mich. Hand button-setting instrument.....	564,337	July 21	1935	457	76	388
McKenney, Franklin S., Detroit, assignor of one-half to J. M. Longyear, Marquette, Mich. Fastening for buttons or other uses.....	565,388	Aug. 4	792	189	76	764
McKenney, Franklin S., and F. R. Welton, Detroit; said Welton assignor to said McKenney and said McKenney assignor of one-half to J. M. Longyear, Marquette, Mich. Hand button-setting implement.....	571,954	Nov. 24	2715	642	77	1207
McKenzie, Douglas J., and W. Martin, Chicago, Ill. Mailing or similar receptacle.....	560,227	May 19	1629	371	75	1054
McKenzie, Ralph, Jersey City, N. J. Producing lakes or coloring compounds by electrolysis.....	554,718	Feb. 18	1620	.....	74	840
McKenzie, Thomas W., assignor of two-thirds to A. G. Kreitlein, Indianapolis, Ind. Bicycle.....	567,494	Sept. 8	1337	323	76	1541
McKenzie, William, Dublin, Ireland. Thrashing-machine.....	557,691	Apr. 7	296	71	75	56
McKenzie, William, and W. W. Rising, Wellington, New Zealand. Violin.....	567,607	Sept. 15	1531	368	76	1592
McKerrow, Herbert G., Medford, Mass. Apparatus for bleaching.....	570,675	Nov. 3	478	112	77	727
McKesson, Charles L., Howard, Kans. Office-indicator.....	569,384	Oct. 13	1150	274	77	236
McKibbin, Thomas A., Baltimore, Md. Furnace.....	558,737	Apr. 21	2151	518	75	438
McKiniry, John J., New York, N. Y., and W. von Bokern, Denver, Colo. Bottle.....	558,596	Apr. 21	1909	465	75	393
McKinlay, Edward S., Denver, Colo. Mining-machine.....	557,144	Mar. 31	2952	{ 706 707 }	74	1757
McKinlay, Edward S., Denver, Colo. Mining-machine.....	560,363	May 19	1871	427	75	1095
McKinlay, Edward S. and W. A., Denver, Colo. Mining-machine.....	561,023	May 26	3065	{ 706 707 }	75	1335
McKinlay, William A. (See McKinlay, Edward S. and W. A.)						
McKinlay, William A., Denver, Colo. Device for splitting or breaking down coal, rock, &c.....	557,143	Mar. 31	2949	{ 705 706 }	74	1757
McKinney, Dr. Franklin, South Los Angeles, Cal. Hydrocarbon-burner.....	564,024	July 14	1377	320	76	272
McKinney, Lee R., and W. French, Hopkins, Mo. Horse-detacher.....	566,789	Sept. 1	91	22	76	1297
McKinnie, Harry J. (See Unkefer, George R., assignor.)						
McKinnie, Thomas S., Cleveland, Ohio. Device for bridging open joints of railway-rails.....	561,602	June 9	968	231	75	1579
McKnight, Alexander, Brooklyn, N. Y. Bed-bottom.....	565,018	Aug. 4	93	22	76	635
McKnight, John W., Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Fixture for incandescent-lamp burners.....	558,911	Apr. 21	2446	596	75	494
McKnight, Sanford C. (See Street, Arthur W., assignor.)						
McLachlan, John, assignor to F. P. Stone, Chicago, Ill. Brake-shoe.....	573,523	Dec. 22	2572	610	77	1818
McLain, Peter J., Denver, assignor of nine-sixteenths to N. Demandel, Victor, and E. P. Brewer, Denver, Colo. Tire for bicycles.....	555,464	Feb. 25	2969	707	74	1108
McLane, Jared B., Reading, Mass. Metal-shearing machine.....	569,226	Oct. 13	881	209	77	184
McLane, John H., <i>et al.</i> (See Jones, Otis, assignor.)						
McLane, L. J., <i>et al.</i> (See Jones, Otis, assignor.)						
McLane, Richard, Harrow, Canada. Combined hay and stock rack.....	568,867	Oct. 6	267	62	77	51
McLaren, Henry. (See McLaren, John and H.)						
McLaren, John and H., Leeds, England. Speed altering or adjusting mechanism for shaft-governors.....	569,512	Oct. 13	1369	321	77	274
McLarty, Farquhar M., Penang, Straits Settlements. Apparatus for boring earth, minerals, &c., for prospecting purposes.....	569,121	Oct. 6	686	{ 160 161 }	77	131
McLarty, George W., Palatka, Fla. Bathing apparatus.....	567,915	Sept. 15	2034	488	76	1691
McLaughlin, Charles H., Philadelphia, Pa. Car-coupling.....	570,559	Nov. 3	238	59	77	682
McLaughlin, Frank. (See Evans, George H., assignor.)						
McLaughlin, Hezekiah, Boston, Mass. Scaffold.....	555,260	Feb. 25	2594	609	74	1037
McLaughlin, James, Chicago, Ill. Electric-arc lamp.....	567,840	Sept. 15	1928	{ 462 463 }	76	1669
McLaughlin, James, Chicago, Ill. Bond for electric railways.....	567,841	Sept. 15	1934	463	76	1670
McLaughlin, James, assignor to T. K. Webster, Chicago, Ill. Electric-arc lamp.....	560,421	May 19	1980	453	75	1116

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McLaughlin, James F., Philadelphia, Pa. Type-writing machine.....	553,173	Jan. 14	1242	{ 302 303 }	{ 74 74 }	247 248
McLaughlin, James F., Philadelphia, Pa. Type-writing machine.....	553,174	Jan. 14	1247	{ 303 304 }	{ 74 74 }	248 249
McLaughlin, James F., Philadelphia, Pa. Electric locomotive.....	570,945	Nov. 10	955	{ 221 222 }	{ 77 77 }	845 846
McLaughlin, James F., Philadelphia, Pa. Electric locomotive.....	573,905	Dec. 29	3264	{ 779 780 }	{ 77 77 }	1964 1965
McLaughlin, Robert and W., Philadelphia, Pa. Steam stop-valve.....	571,010	Nov. 10	1062	{ 248 249 }	{ 77 77 }	865 866
McLaughlin, Samuel. (See Moore and McLaughlin.)						
McLaughlin, William. (See McLaughlin, Robert and W.)						
McLauthlin, Martin B. (See Taylor and McLauthlin.)						
McLean, Andrew, Passaic, N. J., assignor to H. W. Butterworth & Sons Company, of Pennsylvania. Textile-tentering machine.....	569,763	Oct. 20	1852	{ 438 439 440 }	{ 77 77 77 }	377 378 379
McLennan, David, assignor of one-third to D. P. Olmstead, Brooklyn, N. Y. Device for sailing yachts.....	559,983	May 12	1164	{ 259 260 261 }	{ 75 75 75 }	918 919 920
McLean, Edward, Weir, Kans. Tool for removing nails and pegs from boots or shoes.....	566,608	Aug. 25	2983	728	76	1232
McLean, Edwin D., Marissa, Ill. Downdraft stove or furnace.....	574,210	Dec. 29	3878	923	77	2073
McLean, James A., assignor of one-half to J. E. Feltham, Amesbury, Mass. Carriage.....	566,790	Sept. 1	92	23	76	1297
McLean, James A., assignor of one-half to J. E. Feltham, Amesbury, Mass. Carriage.....	566,791	Sept. 1	93	23	76	1298
McLean, Robert. (See Bennett, Somerville, and McLean.)						
McLean, William J., Gloster, Miss. Axle-box.....	571,235	Nov. 10	1454	341	77	937
McLellan, Charles H., Toms River, N. J. Buoy or life-preserver.....	561,807	June 9	1335	319	75	1647
McLellan, Duncan, <i>et al.</i> (See Krohn Gustave A., assignor.)						
McLellan, John T., assignor of one-half to J. A. Luce, Bozeman, Mont. Rocking ash-pan.....	556,365	Mar. 17	1613	377	74	1464
McLendon, Benjamin L., Goodwater, Ala. Harrow and cultivator.....	564,833	July 28	2783	662	76	559
McLennan, John F., Chicago, Ill. Chin-rest for horses.....	572,648	Dec. 8	984	237	77	1485
McLeod, Donald A. (See Mayo, Robert D., assignor.)						
McLeod, George K., <i>et al.</i> , trustees. (See Durio, Jacques, assignor.)						
McLeod, Hugh, Hatfield, Mass. Friction-clutch.....	573,689	Dec. 22	2892	683	77	1880
McLeod, John M., Goderich, Canada. Revolving stand for writers or others.....	563,298	July 7	108	26	76	23
McMahel, John, New Albany, Ind., assignor of one-half to F. E. Gilmore, Chickasha, Ind. Ter. Bicycle-bell.....	553,129	Jan. 14	1167	284	74	234
McMahon, Frank. (See Hogan and McMahon.)						
McMahon, Joseph. (See Falkner, William, assignor.)						
McMahon, Joseph, Denver, Colo. Car-coupling.....	561,548	June 2	870	{ 209 210 }	{ 75 75 }	1534 1535
McMahon, William, Rahway, N. J. Dumping-car.....	554,531	Feb. 11	1291	303	74	760
McMannus, John R., and T. F. Hart, Lynn, Mass. Machine for manufacturing shoe-stiffenings.....	568,868	Oct. 6	268	62	77	52
McManus, Patricia, <i>et al.</i> (See Smith, Edward A., assignor.)						
McMaster, Arthur H., Fowler, Colo. Antifriction-bearing.....	553,656	Jan. 28	2100	496	74	435
McMaster, Elbert S., Grand Forks, N. D. Ticket-case.....	573,524	Dec. 22	2574	611	77	1819
McMaster, Lyman, Meriden, Conn. Cork-extractor.....	562,645	June 23	2760	670	75	1949
McMeekin, Andrew G., Schenectady, N. Y. Railway-crossing.....	568,541	Sept. 29	3187	768	76	1930
McMenamin, Peter, Jersey City, N. J. Car-fender.....	557,145	Mar. 31	2958	708	74	1758
McMenamin, Peter, Jersey City, N. J. Car-fender.....	565,558	Aug. 11	1122	{ 271 272 }	{ 76 76 }	843 844
McMichael, Abner, Norristown, Pa. Dial-cam-operating mechanism for knitting-machines.....	567,547	Sept. 8	1415	340	76	1555
McMicken, David L., Des Moines, Iowa. Portable car-wheel holder.....	556,764	Mar. 24	2307	542	74	1610
McMillan, Daniel. (See McDougall, John L., assignor.)						
McMillan, Richard. (See Grady and McMillan.)						
McMillan, Samuel D., Gloster, La. Plow attachment.....	555,327	Feb. 25	2720	637	74	1061
McMillen, Robert, Pittsburg, Pa. Wrench.....	568,365	Sept. 29	2862	688	76	1872
McMillin, Andrew T., Paris, Tenn. Means for constructing seamless metal tooth-crowns.....	570,044	Oct. 27	2323	551	77	478
McMullen, Daniel T., <i>et al.</i> (See Gathmann, Louis, assignor.)						
McMullen, David S., <i>et al.</i> (See Gathmann, Louis, assignor.)						
McMullen, George W., <i>et al.</i> (See Gathmann, Louis, assignor.)						
McMullen, James B., <i>et al.</i> (See Gathmann, Louis, assignor.)						
McMullen, Roger B., <i>et al.</i> (See Gathmann, Louis, assignor.)						
McMullen, Wilbur H., Lafayette, Ind. Plow attachment.....	574,211	Dec. 29	3880	324	77	2074
McMurrin, Joseph, Shoshone, Idaho. Water-elevator.....	562,480	June 23	2475	600	75	1896
McMurry, Carrie E., Nashville, Tenn. Camera.....	553,494	Jan. 21	1806	429	74	366
McMurtrie, William, West Superior, Wis. Wire-stripping tool.....	560,524	May 19	2145	490	75	1145
McMyler Car Dumping Machine Company. (See Long, Timothy, assignor.)						
McMyler, John, Cleveland, Ohio. Car-dumping machine.....	558,200	Apr. 14	1221	297	75	248
McMyler, John, Cleveland, Ohio. Portable device for loading vessels.....	568,869	Oct. 6	271	63	77	52
McNab, John. (See Fay and McNab.)						
McNair, Annie L. B., Weston-super-Mare, England. Pillow-holder.....	560,422	May 19	1984	453	75	1116
McNalley, Michael, St. Louis, Mo. Veterinary speculum.....	555,390	Feb. 25	2822	664	74	1080
McNamara, James, and F. W. Peppler, Calumet, Mich. Miner's hat.....	557,864	Apr. 7	604	143	75	114
McNaughton, Alexander, Waukesha, Wis. Extension-seat.....	558,201	Apr. 14	1223	298	75	248
McNaughton, James, and S. G. Smith, Waukesha, Wis., assignors to Positive Surface Cattle Guard Company, Chicago, Ill. Cattle-guard machine.....	568,453	Sept. 29	3006	723	76	1898
McNaughton, John G., assignor of one-half to L. Shultz, Salisbury, N. C. Bicycle attachment.....	573,282	Dec. 15	2112	507	77	1717
McNeal, Andrew H., Burlington, N. J. Making pipe-cores.....	570,708	Nov. 3	537	124	77	738
McNeely, Frank M. (See Hollingsworth and McNeely.)						
McNeil, Chester, assignor to Union Special Sewing Machine Company, Chicago, Ill. Machine for sewing looped fabrics.....	556,585	Mar. 17	2005	469	74	1536
McNeil, Chester, Rogers Park, assignor to Union Special Sewing Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines.....	559,734	May 5	639	154	75	804
McNeil, Murdoch J., Lincoln, N. H. Refrigerator.....	553,175	Jan. 14	1250	304	74	248
McNeill, Archibald, <i>et al.</i> (See Davis, Clifton H., assignor.)						
McNerney, Peter, Marinette, Wis. Steam log loader and turner.....	559,192	Apr. 28	2984	{ 720 721 722 }	{ 75 75 75 }	612 613 614
McNew, Frank O., <i>et al.</i> (See Rose, Preston B., assignor.)						
McNichol, Edgar, Jonesport, Me. Stringed instrument.....	572,906	Dec. 8	1419	342	77	1571
McNicol, John A., Providence, R. I. Swing-bridge.....	558,202	Apr. 14	1225	298	75	248
McNulty, Francis P. (See McDermott and McNulty.)						
McNutt, John F., Warren, assignor of one-half to R. H. Scott, Trumbull county, Ohio. Machine for working sheet metal.....	567,038	Sept. 1	536	126	76	1383
McNutt, Randolph. (See Sackett, Orville R., assignor.)						
McPhee, Colin C., Chatham, Canada. Letter-clip.....	553,255	Jan. 21	1393	339	74	290

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McPherron, William R., assignor of one-half to W. F. Davis, Jacksonville, Ill. Washing-machine	570,709	Nov. 3	538	125	77	738
McPherson, Donald H., Le Roy, N. Y. Wire fence	570,290	Oct. 27	2771	659	77	563
McPherson, Donald H., Le Roy, N. Y. Wire fence	573,831	Dec. 22	3135	747	77	1926
McPherson, John. (See Bethune and McPherson.)						
McQuade, Michael J., Bayfield, Wis. Apparatus for cutting or grooving road-beds	563,874	July 14	1109	261	76	223
McQueen, John, et al. (See Gogle, John E., assignor.)						
McQuilkin, James C. (See Pauly and McQuilkin.)						
McQuillan, Charles, Balmain, assignor to H. Pateson, Sydney, New South Wales. Metal can	561,338	June 2	490	123	75	1465
McQuoid, A. E. (See Sallee, William H. H., assignor.)						
McQuown, Thomas H., Somerville, Mass. Handle-bar for bicycles	570,560	Nov. 3	239	60	77	682
McRae, John C., Lake Providence, La. Button or clasp	573,906	Dec. 29	3265	779	77	1965
McShane, William, assignor to T., J. A., and G. McAvity, St. John, Canada. Flushing-tank	564,156	July 14	1637	382	76	320
McSkimmon, William B. (See Craig, Thomas H., assignor.)						
McSweeney, James, assignor to E. D. Jones & Sons Company, Pittsfield, Mass. Hand-drill	573,231	Dec. 15	2018	484	77	1700
McTaggart, David, Worcester, Mass. Warp-compressor	573,346	Dec. 15	2232	533	77	1738
McTaggart, Francis, Iroquois, S. D. Car-coupling	571,926	Nov. 24	2666	632	77	1196
McTague, James H., Omaha, Nebr. Beverage-freezer	556,432	Mar. 17	1741	404	74	1488
McVay, George E., Crawfordville, Ind. Corn-harvester	553,564	Jan. 28	1939	458	74	406
McWhirter, Hershel L., South McAlester, Ind. Ter. Well-rope take-up	574,258	Dec. 29	3963	941	77	2090
McWhirter, William H., Algoma, assignor of one-half to J. J. King, New Albany, Miss. Bouquet-holder	563,208	June 30	3794	909	75	2168
McWilliams, Robert, Coatesville, Pa. Ash-sifter	553,013	Jan. 14	961	233	74	194
Me Cartea, Francis M., San Juan, Cal. Farrier's knife	567,493	Sept. 8	1336	322	76	1541
Meacham, James H., Petersburg, Va. Endless-band propeller	553,416	Jan. 21	1675	399	74	341
Mead, Albert G., Boston, Mass. Rivet	553,210	Jan. 14	1315	318	74	261
Mead, Arthur F., New York, N. Y. Steam-generator	566,994	Sept. 1	461	106	76	1369
Mead, Charles H., Kent, assignor to National Safe and Lock Company, Cleveland, Ohio. Safe	558,088	Apr. 14	1041	254	75	213
Mead, Edwin D., Phelps, N. Y. Fertilizer-distributor	570,490	Nov. 3	100	24	77	657
Mead, Edwin R., et al. (See Martindale, Benjamin F., assignor.)						
Mead, Frank S., Montreal, Canada. Gas, oil, or vapor engine	563,670	July 7	733	173	76	138
Mead, Theodore H., et al. (See Crowell, Luther C., assignor.)						
Mead, Theodore H., et al. (See North, Thomas M., assignor.)						
Mead, Theodore H., et al. (See Sheldon, Edward P., assignor.)						
Mead, Theodore H., et al. (See Spalckhaver, William, assignor.)						
Mead, Theodore H., et al. (See Tucker, Edwin D., assignor.)						
Mead, Theodore H., et al. (See Tucker, Stephen D., assignor.)						
Mead, Theodore H., et al. (See Turner, George W., assignor.)						
Meade, Norman G., Jamestown, N. Y. Electric-arc lamp	568,861	Oct. 6	254	60	77	49
Meadows, William. (See Hetherington, John H., assignor.)						
Meaher, Joseph A., assignor of one-half to B. G. Casler, Cleveland, Ohio. Clamp	556,194	Mar. 10	1270	297	74	1383
Meaker, John W., assignor to Meaker Manufacturing Company, Chicago, Ill. Operating device for fare-registers	564,252	July 21	1785	418	76	362
Meaker Manufacturing Company. (See Meaker, John W., assignor.)						
Mealy, Alfred E., Baltimore, Md. Display-box	556,999	Mar. 24	2708	640	74	1685
Meanor, Anson E. (See Best and Meanor.)						
Meany, Richard T. (See Miller, John H., assignor.)						
Measure, Walter. (See Sidwell, Arthur, assignor.)						
Meath, Thomas F., Humboldt, Kans. Bale-elevator	569,976	Oct. 20	2206	524	77	443
Meats, John T., assignor to Mason Machine Works, Taunton, Mass. Loom	553,036	Jan. 14	994	241	74	200
Meats, John T., assignor to Mason Machine Works, Taunton, Mass. Carding-engine	555,324	Feb. 25	2715	636	74	1060
Meats, John T., assignor to Mason Machine Works, Taunton, Mass. Stripping mechanism for carding-engines	557,078	Mar. 24	2832	675	74	1711
Meats, John T., assignor to Mason Machine Works, Taunton, Mass. Spinning-machine	570,409	Oct. 27	3028	717	77	610
Meats, John T., and A. Mason, assignors to Mason Machine Works, Taunton, Mass. Spinning and twisting machine	555,323	Feb. 25	2713	636	74	1060
Meats, John T., and J. S. Eaton, assignors to Mason Machine Works, Taunton, Mass. Coiler	572,433	Dec. 1	617	146	77	1395
Meats, John T., and T. W. Dean, assignors to Mason Machine Works, Taunton, Mass. Spinning-mule	573,280	Dec. 15	2101	505	77	1715
Meach, Adelbert, Edinburg, N. D. Sleigh-brake	553,417	Jan. 21	1677	399	74	342
Mecham, Adelbert, Edinburg, N. D. Sleigh-brake						
Mechanical Manufacturing Company. (See Young, Albert A., assignor.)						
Mechanical Rubber Company. (See Kress, Fredrick A., assignor.)						
Meck, Flora B. (See Daniels, John F., assignor.)						
Medart, Philip, assignor of one-half to W. Medart, St. Louis, Mo. Machine for straightening and polishing shafting	558,591	Apr. 21	1899	460	75	391
Medart, William. (See Medart, Philip, assignor.)						
Meech, Alfred H. (See Ogden and Meech.)						
Meek, Alphonzo E., Kansas City, Mo. Mechanical motor	562,902	June 30	3235	781	75	2058
Meek, John E., assignor to H. W. Johns Manufacturing Company, New York, N. Y. Electric heater	567,247	Sept. 8	889	213	76	1461
Meek, John E., assignor to H. W. Johns Manufacturing Company, New York, N. Y. Electric heater	567,248	Sept. 8	891	213	76	1461
Meek, John E., assignor to H. W. Johns Manufacturing Company, New York, N. Y. Electric switch	568,450	Sept. 29	3002	722	76	1898
Meek, John E., assignor to H. W. Johns Manufacturing Company, New York, N. Y. Electric thermostat	568,451	Sept. 29	3004	723	76	1898
Meek, John E., New York, and F. L. Powers, Brooklyn, N. Y., assignors to H. W. Johns Manufacturing Company, New York, N. Y. Switch for electric heating devices	568,783	Oct. 6	124	29	77	95
Meek, Mathew E., Canton, Ohio. Equalizer for street-railway cars	562,406	June 23	2349	574	75	1872
Meek, Thomas S. (See McCarthy, Gerald J., assignor.)						
Meeker, Gardner, Newark, N. J., assignor to Smillie Coupler and Manufacturing Company, of New Jersey. Car-coupling	556,827	Mar. 24	2414	567	74	1630
Meeker, Stephen J. (See Hoerl, Conrad, assignor.)						
Meeker, Stephen J., Newark, N. J. Car-coupling	560,810	May 26	2696	620	75	1264

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Meeker, Stephen J., Newark, N. J. Lever-handle.....	564,208	July 21	1721	402	76	349
Meeker, Stephen J., Newark, and W. P. Deacon, East Orange, N. J. Car-coupling.....	560,910	May 26	2292	663	75	1301
Meeker, Stephen J., Newark, and C. H. Taylor, South Orange, N. J. Car-coupling.....	563,047	June 30	3494	839	75	2111
Meengs, Peter C., Coopersville, Mich. Rectal irrigating-dilator.....	565,386	Aug. 4	789	188	76	763
Meers, James, Cumberland, R. I. Cloth-guiding device.....	561,121	June 2	75	20	75	1381
Meerse, Cornelius. (See Bolger, Joseph J., assignor.)						
Meggenhofen, Charles W. (See Courtright and Meggenhofen.)						
Megill, Edward L., Brooklyn, N. Y. Feed-gage for printing-presses.....	568,578	Sept. 29	3249	782	76	1943
Megill, Edward L., Brooklyn, N. Y. Feed-gage for printing-presses.....	571,782	Nov. 24	2400	573	77	1147
Megson, Richard, Cambridge, Mass. Depositing apparatus for bakers' or confectioners' use.....	573,432	Dec. 15	2409	574	77	1770
Mehl, George, St. Paul, Minn. Sash-fastener.....	570,035	Oct. 27	2307	548	77	475
Mehling, John A., Cleveland, Ohio, assignor, by mesne assignments, to Mehling Manufacturing Company, Register.....	562,033	Sept. 22	2276	551	76	1746
Mehling Manufacturing Company. (See Mehling, John A., assignor.)						
Mehren, Jacob F., assignor to J. P. Barrett, Chicago, Ill. Fire-alarm-telegraph system....	554,889	Feb. 18	1925	453	74	897
Mehring, William M., York Road, Md. Cow-milker.....	571,573	Nov. 17	2027	482	77	1057
Meier, August H., Marble Rock, assignor of one-half to L. H. Langworthy, Dubuque, Iowa. Earth-auger.....	570,810	Nov. 3	703	161	77	768
Meier, Herman, Philadelphia, Pa. Hoist.....	554,890	Feb. 18	1927	454	74	898
Meier, Robert G. A., assignor to Crescent Novelty Manufacturing Company, St. Louis, Mo. Toaster.....	567,108	Sept. 1	665	155	76	1408
Meinecke, Christian W. (See Melvin, Mark G., assignor.)						
Meinhardt, Gottfried. (See Jahnsen and Meinhardt.)						
Meins, Henry, Quincy, Ill. Bottle.....	564,209	July 21	1722	403	76	350
Meinshausen, Otto, Chicago, Ill. Fore-mash apparatus.....	563,978	July 14	1303	304	76	257
Meise, Edward, Pittsburg, Pa. Seal-padlock.....	558,193	Apr. 14	1210	295	75	246
Meisel, Francis, Boston, Mass. Machine for folding paper.....	568,307	Sept. 22	2757	663 664 460	76	1838
Meisel, Francis, assignor to Kidder Press Manufacturing Company, Boston, Mass. Rotary web-printing machine.....	558,592	Apr. 21	1900	461 462 463	75	392
Meisel, Francis, and H. C. Fischer, assignors to Kidder Press Manufacturing Company, Boston, Mass. Rotary numbering-machine.....	558,405	Apr. 14	1568	382 383	75	312
Meiser, Rudolph J. (See Brown, Berry A., assignor.)						
Meisselbach, August F. and W., Newark, N. J. Fishing-reel.....	553,069	Jan. 14	1064	259	74	213
Meisselbach, William. (See Meisselbach, August F. and W.)						
Meissal, Emerich, Vienna, Austria-Hungary. Refining and bleaching animal fats.....	568,983	Oct. 6	465	.....	77	89
Meissner, Adolf E. W., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Reciprocating drill.....	553,534	Jan. 28	1883	445	74	397
Meissner, Adolf E. W., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Reciprocating drilling-machine.....	555,254	Feb. 25	2583	606	74	1035
Meissner, Adolf E. W., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Rotary rock-drill with hydraulic feed.....	557,686	Apr. 7	289	70	75	55
Meissner, Adolf E. W., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Tetrapod for drills.....	573,608	Dec. 22	2722	647	77	1849
Meissner, Moritz M., et al. (See Beazan, John H., assignor.)						
Meissner, William, Rockaway Beach, N. Y. Merry-go-round.....	555,325	Feb. 25	2716	636	74	1060
Meister, Charles, Philadelphia, Pa. Trimmer for reeds of musical instruments.....	555,962	Mar. 10	829	196	74	1305
Meister, Christian A., Allentown, Pa. Angle attachment for dental handpieces or other mechanism.....	553,124	Jan. 14	1161	282	74	233
Meixell, John B., et al. (See Knauss, Uriah A., assignor.)						
Mejer, Friedrich, Leipsic, Germany. Flower-stand.....	553,418	Jan. 21	1678	400	74	342
Mekeel, David L. (See Turner and Mekeel.)						
Melavin, John H., Cambridge, Mass. Outlet-closing device for hose-nozzles.....	565,290	Aug. 4	634	150	76	733
Melcher, Louis. (See Roth, Dolge, and Melcher.)						
Melcher, William H., Philadelphia, Pa. Kiln.....	571,599	Nov. 17	2066	495	77	1064
Meldrum, Charles, assignor of one-half to J. P. Loring, Buffalo, N. Y. Beer-bottling apparatus.....	572,708	Dec. 8	1096	266	77	1506
Melhado, Alexander. (See Thomas and Melhado.)						
Melhuish, Richard M., London, England. Sewing-machine.....	568,624	Sept. 29	3338	799 800 801	76	1959
Melin, Albert H., et al. (See Robertson, Burton S., assignor.)						
Mellars, Frederick W., San Francisco, Cal. Gas or vapor engine.....	556,195	Mar. 10	1272	297	74	1384
Mellin, Carl J., assignor to Richmond Locomotive and Machine Works, Richmond, Va. Compound steam-engine.....	557,135	Mar. 31	2936	703	74	1754
Mellon, Peter H., St. Louis, Mo. Metallic bed-fastening.....	554,132	Feb. 4	617	139	74	617
Mellon, Peter H., St. Louis, Mo. Mold used in casting metallic beds.....	559,795	May 5	641	154	75	804
Mellon, Peter H., St. Louis, Mo. Bottom for metallic beds.....	568,165	Sept. 22	2523	607	76	1792
Mellor, John E., New York, N. Y. Cash-register.....	561,680	June 9	1101	264	75	1603
Meloney, George R., Philadelphia, Pa. Strainer.....	563,864	July 14	1090	256	76	219
Melotte, George H., Marsh, Pa. Electric propulsion system for cars.....	555,783	Mar. 3	486	117 118	74	1218
Melville, George W., Oak Park, assignor to Inventors Manufacturing and Trading Company, Chicago, Ill. Advertising cigar-cutter.....	552,645	Jan. 7	238	66	74	46
Melville, Herman A., Milwaukee, Wis. Horse-shade.....	566,783	Sept. 1	79	20	76	1295
Melville, William C. (See Bell, Melville, and Foster.)						
Melvin, Charles, et al. (See Krohn, Gastave A., assignor.)						
Melvin, John F., Mayfield, Ky. Fence.....	569,138	Oct. 6	723	170	77	138
Melvin, Mark G., Archibald, Pa., assignor to C. W. Meinecke, New York, N. Y. Nasal douche.....	555,107	Feb. 25	2333	554	74	989
Memory, Robert G. (See Veazie, Henry A., assignor.)						
Ménard, David, St. Paul d'Abotsford, Canada. Stand for shoeing horses.....	554,944	Feb. 18	2014	477	74	913
Menary, John, Heber, Utah. Tightening and stretching device.....	553,172	Jan. 14	1241	302	74	247
Mendenhall, Hiram, and F. B. Davis, Audubon, Iowa. Feed-trough.....	558,694	Apr. 21	2081	503	75	424
Mendenhall, Walter W., Greensborough, N. C. Coop for chickens.....	569,295	Oct. 13	999	239	77	206
Meng, John D., Rochester, N. Y. Bread-box.....	560,811	May 26	2698	620	75	1265
Mengel, Charles C., Sr., Bay City, Mich., assignor to C. C. Mengel, Jr., Louisville, Ky. Air and steam feeding device for furnaces.....	554,191	Feb. 4	708	160	74	635
Mengel, Joseph A., McKeesburg, G. K. Binkley, Orwigsburg, and G. H. Gerber, Pottsville, Pa. Seed planter.....	557,136	Mar. 31	2938	703	74	1754
Menominee Iron Works Company. (See Kern and Tideman, assignors.)						
Menez, Vincent A., Elkhart, Ind. Revolving rocking-chair.....	561,719	June 9	1181	281	75	1619
Menez, Vincent A., Elkhart, Ind. Chair.....	567,837	Sept. 15	1923	461	76	1668

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Mercer, Alfred C., Syracuse, N. Y. Photographic finder.....	565,626	Aug. 11	1244	300	76	866
Mercer, Alfred C., Syracuse, N. Y. Photographic finder.....	572,173	Dec. 1	139	33	77	1304
Mercer, Byron, assignor of one-half to G. F. Anderson, Chicago, Ill. Necktie.....	557,591	Apr. 7	112	28	75	22
Mercer, Frederic W. (See Palmer and Mercer.)						
Mercer, James, Rumford Falls, Me. Cell.....	564,311	July 21	1890	446	76	380
Mercer, William R., Terre Haute, Ind. Adjustable head-block for elevators of excavating-machines.....	552,920	Jan. 14	812	198	74	165
Mercié, Henri A. (See Benét and Mercié.)						
Mercier, Pierre, Paris, France. Pneumatic tire.....	561,904	June 9	1503	363	75	1679
Mercier, Pierre, London, England. Material for protecting vessels, receptacles, &c.....	561,905	June 9	1504	364	75	1679
Mercier, Pierre, Paris, France, assignor, by mesne assignments, to New York Bicycle Equipment Company, of New York. Repairing pneumatic tires.....	557,851	Apr. 7	584	139	75	110
Meredith, James S., Philadelphia, Pa. Car-fender.....	570,134	Oct. 27	2487	590	77	510
Meredith, John T., Shawnee, Ohio. Spectacles.....	569,462	Oct. 13	1272	299	77	257
Mergenthaler Linotype Company. (See Albrecht, Christian A., assignor.)						
Mergenthaler Linotype Company. (See Bates, George A., assignor.)						
Mergenthaler Linotype Company. (See Bright, Fred E., assignor.)						
Mergenthaler Linotype Company. (See Burger, John, assignor.)						
Mergenthaler Linotype Company. (See Dodge, Philip T., assignor.)						
Mergenthaler Linotype Company. (See Fairchild, Ben L., assignor.)						
Mergenthaler Linotype Company. (See Holliwel, Charles, assignor.)						
Mergenthaler Linotype Company. (See Larkin, Nelson A., assignor.)						
Mergenthaler Linotype Company. (See Mergenthaler, Ottmar, assignor.)						
Mergenthaler Linotype Company. (See Mergenthaler and Muehleisen, assignors.)						
Mergenthaler Linotype Company. (See Muehleisen, Carl, assignor.)						
Mergenthaler Linotype Company. (See Peterhansl, Frank, assignor.)						
Mergenthaler Linotype Company. (See Phelps, James W., assignor.)						
Mergenthaler Linotype Company. (See Randall, William H., assignor.)						
Mergenthaler Linotype Company. (See Rogers, John R., assignor.)						
Mergenthaler Linotype Company. (See Scudder, Wilbur S., assignor.)						
Mergenthaler Linotype Company. (See Smith, Samuel, assignor.)						
Mergenthaler Linotype Company. (See Whittaker, Matthew H., assignor.)						
Mergenthaler, Ottmar, Baltimore, Md., assignor to Mergenthaler Linotype Company, of New Jersey. Linotype-machine.....	557,000	Mar. 24	2709	{ 641 642 }	{ 74 }	1685
Mergenthaler, Ottmar, Baltimore, Md., assignor to Mergenthaler Linotype Company, of New Jersey. Linotype-machine.....	563,865	July 14	1091	257	76	219
Mergenthaler, Ottmar, Baltimore, Md., assignor to Mergenthaler Linotype Company, of New Jersey. Linotype-machine.....	565,484	Aug. 11	967	231	76	817
Mergenthaler, Ottmar, Baltimore, Md., assignor to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine.....	565,486	Aug. 11	975	{ 233 234 235 }	{ 76 }	818
Mergenthaler, Ottmar, Baltimore, Md., assignor to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine.....	565,487	Aug. 11	982	{ 235 236 237 }	{ 76 }	819
Mergenthaler, Ottmar, Baltimore, Md., assignor to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine.....	565,488	Aug. 11	990	{ 237 238 }	{ 76 }	820
Mergenthaler, Ottmar, Baltimore, Md., assignor to Mergenthaler Linotype Company, New York, N. Y. Type-justifying mechanism.....	565,489	Aug. 11	994	{ 239 240 241 242 243 }	{ 76 }	821
Mergenthaler, Ottmar, Baltimore, Md., assignor to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine.....	565,490	Aug. 11	998	{ 241 242 243 }	{ 76 }	821
Mergenthaler, Ottmar, Baltimore, Md., assignor to National Typographic Company, of West Virginia. Linotype-machine.....	558,406	Apr. 14	1572	{ 333 334 }	{ 75 }	313
Mergenthaler, Ottmar, Baltimore, Md., assignor to National Typographic Company, of West Virginia. Type-justifying mechanism.....	565,483	Aug. 11	964	230	76	816
Mergenthaler, Ottmar, and C. Muehleisen, Baltimore, Md., assignors to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine.....	565,485	Aug. 11	971	{ 231 232 233 }	{ 76 }	818
Meriam, Joseph B. (See Berg, Friedrich, assignor.)						
Meriam, Joseph B. (See Dean, Richard, assignor.)						
Meriden Bronze Company. (See Johnson, Nis, assignor.)						
Meriden Bronze Company. (See Johnson and Jones, assignors.)						
Meriden Bronze Company. (See Jones, Augustus H., assignor.)						
Meriden Bronze Company. (See Shull, Joseph C., assignor.)						
Merithew, Charles L., Muir, Mich. Emery-wheel.....	555,579	Mar. 3	160	38	74	1159
Meriwether, James. (See Pruitt, Andrew L., assignor.)						
Merkle, William S., St. Louis, Mo. Underground conduit for electric railways.....	554,450	Feb. 11	1165	271	74	737
Mermod Frères. (See Vernaz, Alexis, assignor.)						
Mern, John P., assignor to M. J. Drummond, New York, N. Y. Cover for stop-cock boxes.....	563,239	June 30	3841	920	75	2176
Merrel, Adolf, and A. Duffek, Prague, Austria-Hungary. Extirpator.....	555,219	Feb. 25	2520	{ 594 595 }	{ 74 }	1024
Merriam, Frederic J., and J. A. W. Sears, Escanaba, assignors to Gladstone Washboard Company, Gladstone, Mich. Washboard.....	569,879	Oct. 20	2035	485	77	410
Merriam, Henry P., assignor to Standard Air Brake Company, New York, N. Y. Automatic regulator for electric motors.....	567,651	Sept. 15	1606	{ 386 387 }	{ 76 }	1607
Merriam, Lyman W., assignor of one-half to G. O. Allen, Fitchburg, Mass. Butter or cheese cutter.....	559,494	May 5	249	56	75	730
Merriam, Lyman W., assignor of one-half to G. O. Allen, Fitchburg, Mass. Can-opener.....	563,936	July 14	1231	287	76	244
Merriam, Lyman W., assignor of one-half to G. O. Allen, Fitchburg, Mass. Can-opener.....	563,937	July 14	1232	287	76	244
Merrick, Arthur L., deceased, (J. Merrick, administratrix,) and B. Brooks, Springfield, Mass. Selective system.....	566,784	Sept. 1	80	20, 21	76	1295
Merrick, Frank W., Boston, Mass. Welted seam.....	555,255	Feb. 25	2585	606	74	1036
Merrick, Frank W., Boston, Mass. Stay-guide for sewing-machines.....	570,036	Oct. 27	2308	548	77	475
Merrick, Frank W., Boston, Mass. Stay-guide for sewing-machines.....	570,037	Oct. 27	2311	548	77	476
Merrick, Frank W., Boston, Mass. Lap-seam guide for sewing-machines.....	570,288	Oct. 27	2769	659	77	563
Merrick, Juliette, administratrix. (See Merrick and Brooks.)						
Merriell, George H., et al. (See Franklin and Fletcher, assignors.)						
Merrill, Albert H., Atlanta, Ga. Musical instrument.....	555,651	Mar. 3	296	70	74	1183
Merrill, Austin P. (See Stanley, John D., assignor.)						
Merrill, Cassius M., Louisville, Ky. Computing-scale.....	573,892	Dec. 29	3246	773	77	1960
Merrill, Charles H., et al. (See Freeman, Charles M., assignor.)						
Merrill, Charles H., Stoddard, and L. A. Butler, assignors of one-third to K. D. Pierce, Hillsborough, N. H. Device for airing bedclothing.....	563,390	July 7	259	58	76	52

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Merrill, Charles W. (See Shirley and Merrill.)						
Merrill, Frank H., Bound Brook, N. J., assignor to Merrill Manufacturing Company, of New Jersey. Apparatus for raising water or other liquids.	558,880	Apr. 21	2393	{ 583 584 }	75	483
Merrill, Frank H., Bound Brook, N. J., assignor to Merrill Manufacturing Company, of New Jersey. Water-raising apparatus.	561,268	June 2	327	82	75	1432
Merrill, Frank W., Deering, assignor to E. T. Burrowes Company, Portland, Me. Refrigerating receptacle.	568,579	Sept. 29	3250	782	76	1943
Merrill, Freeman C., Paris, Me. Harrow.	555,784	Mar. 3	488	118	74	1218
Merrill, Hattie H., Chicago, Ill. Piston.	560,004	May 12	1201	266	75	924
Merrill, John J., Alfred Centre, N. Y. Tile.	557,137	Mar. 31	2940	704	74	1755
Merrill Manufacturing Company. (See Merrill, Frank H., assignor.)						
Merrill, Neil, assignor to Aluminum Musical Instrument Company, Pittsburg, Pa. Musical instrument.	553,653	Jan. 28	2097	495	74	434
Merrill, Neil, Oshkosh, Wis., assignor to Aluminum Musical Instrument Company, New York, N. Y. Mandolin.	559,301	Apr. 28	3186	770	75	649
Merrill, Neil, Pittsburg, Pa., assignor to Aluminum Musical Instrument Company, New York, N. Y. Musical instrument.	559,302	Apr. 28	3187	771	75	649
Merrill, Oliver C., assignor to American Specialty Company, Hartford, Conn. Vegetable-peeler.	557,212	Mar. 31	3093	741	74	1779
Merrill, Rufus S., Scotland, Mass. Process of and apparatus for extracting liquids.	567,249	Sept. 8	892	213	76	1462
Merrill, Ulysses G., et al. (See Dunn, Seth, assignor.)						
Merrill, William S., et al. (See Dunn, Seth, assignor.)						
Merriman, Willeve T., Jackson, Mich. Tail-fastener.	563,979	July 14	1304	304	76	257
Merritt, Benjamin F., Newark, N. J., assignor to Consolidated Telegraph and News Company, New York, N. Y. Telegraph-repeater.	553,535	Jan. 28	1884	{ 445 446 }	74	397
Merritt, Benjamin F., Newark, N. J., and J. M. Joy, assignors to Consolidated Telegraph and News Company, New York, N. Y. Printing-telegraph.	558,506	Apr. 21	1760	{ 427 428 }	75	366
Merritt, Benjamin F., Newark, N. J., and J. M. Joy, New York, N. Y., assignors to Consolidated Telegraph and News Company, of New York. Automatic governing device for motors.	558,507	Apr. 21	1764	428	75	366
Merritt, Benjamin F., Orange, N. J., and J. M. Joy, assignors to Printing Telegraph News Company, New York, N. Y. Telegraph system.	572,609	Dec. 8	922	223	77	1473
Merritt, Charles C. (See Merritt, James I., assignor.)						
Merritt, Frank W., assignor to Electric Motor Company, Duluth, Minn. Air-compressor.	562,475	June 23	2468	599	75	1894
Merritt, Frank W., assignor to Electric Motor Company, Duluth, Minn. Controller for electric pumps.	571,600	Nov. 17	2067	496	77	1064
Merritt, Henry W., Springfield, Mass., assignor to Densmore Typewriter Company, New York, N. Y. Type-writing machine.	560,041	May 12	1276	287	75	937
Merritt, Henry W., assignor to Merritt Manufacturing Company, Springfield, Mass. Type-writing machine.	574,159	Dec. 29	3738	892	77	2049
Merritt, James C., Rochester, N. Y. Blind-slat adjuster and holder.	557,852	Apr. 7	585	139	75	110
Merritt, James E., et al. (See Munson, John H., assignor.)						
Merritt, James I., assignor to C. C. Merritt, Brockton, Mass. Leather-folding machine.	569,930	Oct. 20	2122	505	77	427
Merritt, Louis G., Lockport, N. Y. Knife and cutter-head for lathes.	573,098	Dec. 15	1780	428	77	1656
Merritt Manufacturing Company. (See Merritt, Henry W., assignor.)						
Merritt, Mortimer G., Rome, assignor to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine.	573,472	Dec. 22	2494	591	77	1804
Merritt, Otis J., Senegautteen, assignor of one-half to J. J. Costello, Cœur d'Alene, Idaho. Coupling-block for sprocket-chains.	562,550	June 23	2582	627	75	1915
Merritt, Otis J., Senegautteen, assignor of one-half to J. J. Costello, Cœur d'Alene, Idaho. Locking mechanism for mob and burglar proof doors.	564,388	July 21	2025	475	76	404
Merritt, Otis J., Senegautteen, assignor of one-half to J. J. Costello, Cœur d'Alene, Idaho. Station-indicator.	567,911	Sept. 15	2027	{ 486 487 }	76	1689
Merritt, Otis J., Senegautteen, assignor of one-half to J. J. Costello, Cœur d'Alene, Idaho. Striker-arm for station-indicators.	567,912	Sept. 15	2030	487	76	1690
Merritt, William B., Braintree, Mass., assignor of two-thirds to G. W. Arnold and E. H. Kinney, Brooklyn, N. Y. Device for closing tube punctures.	570,941	Nov. 10	950	220	77	844
Merritt, William B., Braintree, Mass., assignor of two-thirds to G. W. Arnold and E. H. Kinney, Brooklyn, N. Y. Device for closing tube punctures.	570,942	Nov. 10	951	221	77	844
Morrow, Joseph M., Hartford, Conn. Finish or border for fabrics.	553,536	Jan. 28	1886	446	74	398
Morrow, Joseph M., Mansfield, Conn. Take-up for sewing-machines.	570,135	Oct. 27	2488	590	77	510
Morrow, Joseph M., Mansfield, Conn. Take-up for sewing-machines.	570,136	Oct. 27	2490	590	77	510
Morrow, Joseph M., Mansfield, Conn. Feeding mechanism for sewing-machines.	572,682	Dec. 8	1043	{ 252 253 }	77	1497
Morseau, William T., South Orange, N. J., assignor of one-half to W. Durst, Brooklyn, N. Y. Double-shell tube.	558,651	Apr. 21	2002	484	75	410
Mershon, Edward C., Saginaw, Mich. Saw-guide.	567,319	Sept. 8	1052	251	76	1489
Mershon, Frank A., Sparrows Point, assignor of one-half to R. W. Applegarth, Baltimore, Md. Construction of boats.	563,048	June 30	3495	{ 839 840 }	75	2112
Mershon, Ralph D., Pittsburg, Pa. System of multiphase distribution.	556,359	Mar. 17	1605	375	74	1462
Mershon, Ralph D., Pittsburg, Pa. Station potential-indicator.	571,839	Nov. 24	2501	592	77	1165
Mershon, Ralph D., Pittsburg, Pa. Rotary-transformer regulation.	571,863	Nov. 24	2545	603	77	1173
Mertens, Louis, and C. F. Bostwick, Erie, Pa. Lubricator.	570,556	Nov. 3	223	58, 59	77	681
Mertes, August, assignor to A. Mertes Manufacturing Co., Allegheny, Pa. Gear-cutting machine.	553,037	Jan. 14	996	{ 242 243 }	74	200
Mertes Manufacturing Co., A. (See Mertes, August, assignor.)						
Mertsheimer, Frederick, Kansas City, Mo. Eccentric-strap.	557,687	Apr. 7	291	70	75	55
Mertz, George E., Port Chester, N. Y. Lathe for turning wood moldings, &c.	561,720	June 9	1185	{ 281 282 }	75	1619
Mertz, George E., Port Chester, N. Y. Rotary cutter for turning wood moldings.	561,721	June 9	1188	282	75	1620
Mertz's Sons, George. (See Petersen, Charles J., assignor.)						
Mesick, Nelson H., Glencoe Mills, N. Y. Harness.	569,048	Oct. 6	571	131	77	109
Messer, Elbridge, Haverhill, Mass. Hat-ironing machine.	574,070	Dec. 29	3575	854	77	2021
Messer, Louis, New York, N. Y. Frame for pocket-books.	556,156	Mar. 10	1199	280	74	1371
Messersmith, Grace, Plainfield, N. J. Table implement.	565,553	Aug. 11	1116	269	76	842
Messick, David, Timberville, Va. Fence.	552,616	Jan. 7	195	54	74	38
Messier, Samuel, and D. J. Bordeaux, Springfield, Mass. Operating mechanism for street-railway cars.	557,853	Apr. 7	586	{ 139 140 }	75	110
Messing, Heinrich, Offenbach, Germany. Mold for casting hollow articles.	570,324	Oct. 27	2878	684	77	582
Messmer, Alexander L. H., Gardner, Mass. Vehicle-wheel.	566,524	Aug. 25	2868	696	76	1209
Messmer, Ferdinand, St. Louis, Mo. Air-pump.	562,903	June 30	3238	782	75	2058
Messner, Matthias, Trossingen, Germany. Harmonica.	555,610	Mar. 3	214	49	74	1169
Mester, Augusta. (See Cooper, Frank J., assignor.)						
Metallic Basket Company. (See Coleman, John R., assignor.)						
Metcalf, Frank D., Gasport, N. Y. Kettle-tilter.	560,732	May 26	2560	589	75	1238

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Metcalf, John A., Chicago, Ill. Saddle.....	553,211	Jan. 14	1316	319	74	261
Metcalf, John S., Chicago, Ill. Grain-drier.....	558,508	Apr. 21	1766	429	75	367
Metcalf, Samuel G., <i>et al.</i> (See Easton, James W., assignor.)						
Metcalf, Charles A., Marietta, Ga. Folding sofa.....	564,154	July 14	1622	380	76	319
Metcalf, Daniel, Troy, N. Y. Wrench.....	563,049	June 30	3497	840	75	2112
Metcalf, Joseph S., Leeds, England. Splint for corset-busks	553,865	Feb. 4	93	20	74	522
Metcalf, William S. (See Dennis, Metcalfe, and Sherman.)						
Meteor Despatch Company. (See Campbell, Amm. B., assignor.)						
Methven, David T., Springfield, assignor to R. F. Herrick, Milton, Mass. Cash registering and indicating machine.....	557,517	Mar. 31	3634	871	74	1881
Metropolitan Machine Works. (See Anderson, Byron W., assignor.)						
Metropolitan Machine Works. (See Holmes, Daniel M., assignor.)						
Metteer, J. S., <i>et al.</i> (See Sparks, Charles, assignor.)						
Mettler, Adolf. (See Mettler, Caspar W., A., and J.)						
Mettler, Adolf. (See Mettler, Caspar W., J., and A.)						
Mettler, Caspar W., A., and J., Hartford, Conn. Screw-machine.....	561,415	June 2	619	<div style="display: inline-block; vertical-align: middle;">154 155 156</div>	<div style="display: inline-block; vertical-align: middle;">75</div>	1488
Mettler, Caspar W., J., and A., Hartford, Conn., assignors to Hartford Automatic Switch and Truck Company, Hartford, Conn., and Jersey City, N. J. Car-switch.....	557,592	Apr. 7	113	29	75	23
Mettler, Jacob. (See Mettler, Caspar W., A., and J.)						
Mettler, Jacob. (See Mettler, Caspar W., J., and A.)						
Metz, Charles H., Highlandville, assignor to Waltham Manufacturing Company, Waltham, Mass. Jack for truing wheels.....	557,001	Mar. 24	2712	642	74	1686
Metz, Charles H., assignor to Waltham Manufacturing Company, Waltham, Mass. Wheel-setting machine.....	557,002	Mar. 24	2713	643	74	1686
Metz, Herman A., Brooklyn, N. Y. Apparatus for dyeing.....	573,229	Dec. 15	2014	483	77	1699
Metz, Rudolph, Philadelphia, Pa. Waste-oil purifier.....	572,020	Nov. 24	2818	665	77	1225
Metzger, August, Homburg, Germany. Ironing-machine.....	553,038	Jan. 14	998	244	74	201
Metzger, Charles A. and W. E., Rutland, Vt. Awning.....	572,434	Dec. 1	618	147	77	1396
Metzger, Ferdinand F., Philadelphia, Pa. Centrifugal machine.....	571,783	Nov. 24	2401	573	77	1147
Metzger, Ferdinand F., Philadelphia, Pa. Centrifugal machine.....	572,121	Dec. 1	46	12	77	1287
Metzger, Gottlieb F., Elyria, Ohio. Process of and apparatus for extracting naphtha from oil.....	563,391	July 7	260	58, 59	76	52
Metzger, Gottlieb F., Elyria, Ohio. Apparatus for extracting oil.....	566,406	Aug. 25	2637	644	76	1167
Metzger, Gottlieb F., Cleveland, Ohio. Process of and apparatus for separating naphtha from oil.....	563,866	July 14	1092	<div style="display: inline-block; vertical-align: middle;">257 258 259</div>	<div style="display: inline-block; vertical-align: middle;">76</div>	220
Metzger, Gottlieb F., Cleveland, Ohio. Percolator for extracting oil.....	566,599	Aug. 25	2969	<div style="display: inline-block; vertical-align: middle;">725 726</div>	<div style="display: inline-block; vertical-align: middle;">76</div>	1229
Metzger, Ignatius B., Canton, Ohio. Trolley-wheel.....	562,904	June 30	3240	783	75	2059
Metzger, John L. (See Burgin, William H., assignor.)						
Metzger, Ludwig, Munich, Germany. Dumb-bell.....	560,517	May 19	2136	488	75	1143
Metzger, William E. (See Metzger, Charles A. and W. E.)						
Metzger, William H. (See Effinger and Metzger.) (Reissue.)						
Metzger, William H., Canton, Ohio. Cake-turner.....	562,551	June 23	2583	627	75	1916
Metzger, William H., Canton, Ohio. Pliers.....	562,552	June 23	2583	627	75	1916
Mewer Tool Company. (See Mewer, William J., assignor.)						
Mewer, William J., Old Orchard, assignor to Mewer Tool Company, Portland, Me. Rotary support for drills.....	566,923	Sept. 1	323	76	76	1344
Mex, Friedrich, Moscow, Russia. Petroleum-motor.....	562,230	June 16	2054	497	75	1801
Meyer, Adolph. (See Janssen, Pierre, assignor.)						
Meyer, Adolph. (See Johnston, John, assignor.)						
Meyer, Albert F. W., Blue Island, Ill. Telephone-exchange system.....	565,627	Aug. 11	1246	<div style="display: inline-block; vertical-align: middle;">300 301</div>	<div style="display: inline-block; vertical-align: middle;">76</div>	866
Meyer, Berthold E., Springfield, Mo. Fan attachment for sewing-machines.....	572,021	Nov. 24	2820	665	77	1225
Meyer, Charles. (See Yellowley and Meyer.)						
Meyer, Charles J. L., Fond du Lac, Wis. Planer.....	559,396	May 5	84	18	75	697
Meyer, Edward H., <i>et al.</i> (See Outhouse, Thomas A., assignor.)						
Meyer, Edward J., Lock Haven, Pa. Sprayer or sprinkler.....	573,157	Dec. 15	1880	453	77	1675
Meyer, Emma, Philadelphia, Pa. Hat-fastener.....	553,717	Jan. 28	2198	521	74	454
Meyer, George, assignor to E. C. Atkins & Company, Indianapolis, Ind. Handsaw.....	573,893	Dec. 29	3247	773	77	1961
Meyer, Heinrich L. G., and L. Carrer, Dusseldorf, Germany; said Carrer assignor to said Meyer. Ball-bearing.....	553,588	Jan. 28	1984	469	74	415
Meyer, Henry C. (See Colves, Charles, assignor.)						
Meyer, Johannes, Brooklyn, N. Y. Indicating device for bottles.....	562,637	June 23	2748	667	75	1947
Meyer, John W. (See Pries and Meyer.)						
Meyer, John W., Wilmette, Ill. Wall-paper-rolling machine.....	565,116	Aug. 4	293	69	76	671
Meyer, Joseph N., assignor of one-half to T. J. Ryer, Newark, N. J. Bowling-alley.....	566,273	Aug. 18	2373	581	76	1100
Meyer, Julius C., New York, N. Y. Sash-lock.....	558,972	Apr. 28	2563	620	75	532
Meyer, Oluf E., Milwaukee, Wis. Filter.....	563,392	July 7	264	59	76	53
Meyer, Oluf E., Milwaukee, Wis. Apparatus for treating sewage.....	565,491	Aug. 11	1008	<div style="display: inline-block; vertical-align: middle;">243 244</div>	<div style="display: inline-block; vertical-align: middle;">76</div>	822
Meyer, Philip, Alameda, Cal. Atmospheric burner.....	560,911	May 26	2894	663	75	1302
Meyer, Rudolf, Mülheim-on-the-Ruhr, Germany. Rock-boring machine.....	558,652	Apr. 21	2903	485	75	411
Meyer-Sniffen Company <i>et al.</i> (See Bunting, William, Jr., assignor.)						
Meyer, Theodore, Schlusburg, Mo. Combined hay and fodder rack.....	567,838	Sept. 15	1926	461	76	1669
Meyer, William, Beaver Falls, Pa. Leer-pan.....	564,526	July 21	2241	526	76	444
Meyer, William, Beaver Falls, Pa. Annealing-pan.....	564,568	July 21	2331	547	76	456
Meyer, William C. (See French and Meyer.)						
Meyerhoff, Solomon K., Philadelphia, Pa. Shirt.....	562,636	June 23	2747	667	75	1947
Meyerholz, Christian J., Mountain View, Cal. Bung.....	572,435	Dec. 1	620	147	77	1396
Meyers, Augustus W., Chicago, Ill. Appliance for operating elevator-doors.....	556,512	Mar. 17	1889	440	74	1515
Meyers, Charles S., assignor of two-thirds to A. E. Johnson and G. I. Core, Sharpsburg, Pa. Brick machine.....	565,291	Aug. 4	635	151	76	733
Meyers, Frank H., Philadelphia, Pa. Car-door fastening.....	554,133	Feb. 4	618	139	74	618
Meyers, Frederick, Lincoln, Ill. Fire-lighter.....	565,492	Aug. 11	1011	244	76	823
Meyers, John G., Jr., Washington, D. C. Puzzle.....	557,003	Mar. 24	2715	643	74	1687
Meyrick, William, and L. Wilson, Louisville, Ky.; said Meyrick assignor to said Wilson. Vent-valve.....	557,412	Mar. 31	3449	896	74	1846
Meyrowitz, Emil B. (See Knauer, Friedrich, assignor.)						
Meyrowitz, Emil B., assignor to Meyrowitz Manufacturing Company, Ridgefield, N. J. Bar-spring eyeglasses.....	555,459	Feb. 25	2959	703	74	1106
Meyrowitz, Emil B., assignor to Meyrowitz Manufacturing Company, Ridgefield, N. J. Eyeglass nose-guard.....	572,306	Dec. 1	392	93	77	1353

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Meyrowitz, Emil B., assignor to Meyrowitz Manufacturing Company, Ridgefield, N. J. Eyeglass nose-guard.....	572,307	Dec. 1	394	93	77	1353
Meyrowitz Manufacturing Company. (See Meyrowitz, Emil B., assignor.)						
Meyrueis, Jules, Paris, France. Treatment of sodium chlorid.....	560,518	May 19	2137	{ 488 489 }	75	1143
Mezger, Charles A., Brooklyn, N. Y. Outlet-box.....	564,443	July 21	2115	494	76	420
Mezger, Charles A., Brooklyn, N. Y. Conduit outlet-box for electric wires.....	564,527	July 21	2242	526	76	444
Mezger, Karl, Frankfurt-on-the-Main, Germany. Apparatus for obtaining infusions of coffee, tea, &c.....	559,339	Apr. 28	3259	787	75	663
Mica Insulator Company. (See Jefferson, Charles W., assignor.)						
Michael, Henry L. (See Thayer and Michael.)						
Michaels, Gustavus, assignor of one-half to W. T. Mayer, Albany, N. Y. Collodion.....	556,017	Mar. 10	933	.....	74	1324
Michaels, Henry, <i>et al.</i> (See Mincer, Louis L., assignor.)						
Michaelson, Joseph, New Brighton, Pa. Computing instrument.....	556,761	Mar. 24	2303	{ 541 542 }	74	1610
Michales, Moses A., assignor to Simplex Mop Wringer Co., Limited, Pittsburg, Pa. Mop-wringer.....	560,144	May 12	1467	331	75	973
Michaud, Jules, Paris, France. Rotary printing-machine.....	555,460	Feb. 25	2960	{ 704 705 706 }	74	1106
Michaud, Onesime E., St. Louis, Mo. Means for clarifying liquid.....	555,388	Feb. 25	2819	663	74	1080
Michaud, Onesime E., St. Louis, Mo. Registering bottle-stopper.....	564,410	July 21	2060	482	76	411
Micbelfelder, William, Elizabeth, N. J., assignor of one-third to G. M. Wheeler, New York, N. Y. Curtain-pole.....	562,966	June 30	3371	811	75	2088
Michigan Lubricator Company. (See Morris, George C., assignor.)						
Michner, William W., Chicago, Ill. Machine for scrubbing or washing meat.....	554,707	Feb. 18	1603	{ 377 378 }	74	837
Mickelson, Peter, Cedar Valley, Iowa. Door-catch.....	567,036	Sept. 1	532	125	76	1382
Mickle, Charles C. (See Morsa, Stephen B., assignor.)						
Micon, Benjamin, Anniston, Ala. Revolving file case or cabinet.....	572,904	Dec. 8	1417	341	77	1570
Middaugh, Elmer H., assignor to G. G. Briggs, A. J. Giddings, and H. L. Boyle, Grand Rapids, Mich. Mail pouch or bag.....	558,826	Apr. 21	2298	{ 558 559 }	75	465
Middleton, George, Kirkwood, N. J. Wire-clamp for telegraph or similar wires.....	558,509	Apr. 21	1768	429	75	368
Middleton, Lemuel, Russiaville, Ind. Fence-post.....	554,391	Feb. 11	1050	244	74	715
Midford, Albert G., assignor to Midford Pneumatic Salvage Company, New York, N. Y. Apparatus for raising sunken vessels.....	572,364	Dec. 1	493	{ 115 116 }	77	1372
Midford Pneumatic Salvage Company. (See Midford, Albert G., assignor.)						
Midgley, Alexander, assignor of three-fourths to F. W. Stevens, O. P. Chamberlain, and F. A. Allen, Chicago, Ill. Safety-tank for gasoline-stoves.....	563,500	July 7	448	104	76	86
Midland Chemical Company. (See Dow, Herbert H., assignor.)						
Miehle Printing Press and Manufacturing Company. (See Miehle, Robert, assignor.)						
Miehle, Robert, Chicago, Ill. Velocipede.....	568,862	Oct. 6	255	60	77	50
Miehle, Robert, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Inking apparatus for printing-machines.....	558,593	Apr. 21	1905	{ 463 464 }	75	392
Miehle, Robert, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Inking mechanism for printing-presses.....	558,594	Apr. 21	1907	464	75	393
Miehle, Robert, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Inking apparatus for printing-presses.....	559,036	Apr. 28	2667	{ 649 650 }	75	553
Miehle, Robert, assignor, by mesne assignments, to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Air-cushioning apparatus.....	559,589	May 5	404	97	75	762
Miehle, Robert, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Printing-press.....	574,206	Dec. 29	3863	921	77	2071
Miehle, Robert, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Printing-press.....	574,207	Dec. 29	3866	{ 921 922 }	77	2071
Mietz, August. (See Weiss, Carl W., assignor.)						
Migbell, Seward N., assignor of one-half to N. Heinsen, Chicago, Ill. Friction-clutch.....	553,196	Jan. 14	1289	312	74	256
Mignault, Armand. (See Beauchamp, Aimé, assignor.)						
Mignault, Arthur, <i>et al.</i> (See Adams, John A., assignor.)						
Mignault, Samuel, Holyoke, Mass. Press for dental flasks.....	566,207	Aug. 18	2281	558	76	1083
Milbsbach, Emil, and A. Groeschel, assignors to Fountain Machine Company, Cincinnati, Ohio. Hot-air engine.....	566,785	Sept. 1	83	21	76	1296
Mikami, Sakaye, Oakland, Cal. Potato-cutter.....	573,099	Dec. 15	1782	428	77	1657
Milburn, Gustave D., Rochester, N. Y. Photographic camera.....	558,089	Apr. 14	1042	255	75	213
Milbourne, John P., Monton, England. In and out indicator.....	563,501	July 7	450	{ 104 105 }	76	87
Milbourne, Joseph K. (See Shrope, Albert J., assignor.)						
Milburn, William M., Harrison, Ark. Air-tight heating-stove.....	564,631	July 28	2447	576	76	499
Miles, Edward, <i>et al.</i> (See Walker, Joseph, assignor.)						
Miles, Frederick B., assignor to Bement, Miles & Company, Philadelphia, Pa. Steam-hammer.....	562,231	June 16	2057	{ 497 498 }	75	1802
Miles, George, Wellesley, Mass. Conveying apparatus.....	562,967	June 30	3372	811	75	2088
Miles, John S., Dayton, Ohio. Filter.....	559,590	May 5	405	98	75	762
Miles, Melvin T., assignor of two-thirds to E. O. Lewis and F. S. James, Cherokee, Iowa. Coupling.....	565,770	Aug. 11	1510	368	76	917
Miles, Stephen A., Crain, Ill. Colter attachment.....	556,360	Mar. 17	1607	375	74	1462
Miles, Thomas C. (See Perry, William A., assignor.)						
Miles, Walter J., <i>et al.</i> (See Wagner, Joseph I., assignor.)						
Milford Manufacturing Company. (See Curry, Frank C., assignor.)						
Milford Manufacturing Company. (See Worz, Gustav A., assignor.)						
Milgate, Ellsworth W. (See Crouse and Milgate.)						
Milhado, Edward W., Mineral City, Va. Stamp-canceler.....	557,413	Mar. 31	3450	827	74	1846
Military Equipment Stores and "Tortoise" Tents Company. (See Tomkins, Alfred S., assignor.)						
Miltzer, Herman F., Mount Oliver, Pa. Match-safe.....	553,250	Jan. 21	1385	338	74	988
Mill, Anton, Cincinnati, Ohio. Radial drill.....	557,004	Mar. 24	2717	644	74	1687
Millar, F. J., <i>et al.</i> (See Munson, Frank, assignor.)						
Millar, George G. J., assignor of one-half to L. G. Byrne, Columbus, Ohio. Foot-propelled vehicle.....	565,117	Aug. 4	294	70	76	671
Millard, Edward F., Jackson, Mich. Wood-grinding apparatus.....	567,720	Sept. 15	1716	412	76	1629
Millard, Martin S., assignor of one-half to H. L. Nicol, Kansas City, Mo. Refrigerating shipping-crate.....	569,506	Oct. 13	1358	319	77	272
Millard, Orson, Flint, Mich. Powder-mixing device.....	573,473	Dec. 22	2495	501	77	1804
Mille, Otto E. (See Seward, Mille, and Ham.)						
Milledge, John H., Marlin, Tex. Musical hoop.....	572,555	Dec. 8	814	195	77	1449

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Millen, William, New York, N. Y. Hand-protector for cans.....	566,085	Aug. 18	2072	505	76	1043
Miller, Abraham O. (See Miller, Stephen A., assignor.)						
Miller, Adolph. (See Thoeni, Martin, assignor.)						
Miller, Albert E. (See Barlow, Henry C., assignor.)						
Miller, Andrew C., and E. A. Johnson, Commerce, Mo.; said Miller assignor to said John-son. Hay-press.....	559,303	Apr. 28	3189	771	75	649
Miller, Anthony, Huntingburg, Ind. Bobbin case and holder for revolving-hook sewing-machines.....	573,894	Dec. 29	3248	773	77	1961
Miller, August, Lindsborg, Kans. Velocipede.....	570,761	Nov. 3	631	145	77	754
Miller, Augustus S., assignor to M. Miller, Minneapolis, Minn. Mop-wringer.....	553,654	Jan. 28	2098	496	74	434
Miller, Charles A., Meriden, Conn. Knife-sharpener.....	558,407	Apr. 14	1574	384	75	313
Miller, Charles B. (See O'Brien and Miller.)						
Miller, Charles B., assignor to W. J. Poyser, Canton, Ohio. Land-roller.....	557,006	Mar. 24	2720	{ 644 645 }	74	1688
Miller, Charles C., Brooklyn, N. Y. Window-sash.....	554,075	Feb. 4	497	112	74	596
Miller, Charles H., assignor to J. I. Town, Erie, Pa. Combined gas and coal grate.....	567,812	Sept. 15	1883	451	76	1661
Miller, Charles L., New York, N. Y. Venetian-blind-roller support.....	562,233	June 16	2059	498	75	1802
Miller, Charles L., and J. R. George, Chicago, Ill. Metal-breaking machine.....	569,793	Oct. 20	1905	{ 451 452 }	77	386
Miller, Daniel, Hamilton, Mo. Slat-and-wire-fence machine.....	560,734	May 26	2563	590	75	1239
Miller, Daniel W. (See Emmons, Wallace B., assignor.)						
Miller, David C., Cedarville, Kans. Wheeled harrow.....	574,102	Dec. 29	3635	868	77	2031
Miller, Du Brul & Peters Manufacturing Company. (See Miller, Fredrick C., assignor.)						
Miller, Edmund S. (See Ellis and Miller.)						
Miller, Edward L., Chicago, Ill. Automatic recording instrument.....	568,784	Oct. 6	126	29, 30	77	26
Miller, Ernest L., Louisville, Ky., assignor to Budde & Westermann, New York, N. Y. Bottling-machine.....	564,528	July 21	2245	527	76	444
Miller, Ezra, Canal Dover, Ohio. Dust-collector.....	554,891	Feb. 18	1928	454	74	898
Miller, Ferdinand, Emma, Ind. Pumping attachment for windmills.....	567,990	Sept. 22	2186	526	76	1731
Miller, Frank C., Easton, Pa. Window-screen.....	564,529	July 21	2247	527	76	445
Miller, Frank P., Jersey City, assignor, by mesne assignments, of one-half to J. M. Schwerin, Newark, N. J. Vehicle-tire clamp.....	557,138	Mar. 31	2942	704	74	1755
Miller, Fredrick C., Newport, Ky., assignor to Miller, Du Brul & Peters Manufacturing Company, Cincinnati, Ohio, and New York, N. Y. Cigar-bunch machine.....	567,350	Sept. 8	1103	{ 265 266 }	76	1498
Miller, George H. (See Hopkins and Miller.)						
Miller, George H., Norwalk, Ohio. Combined fence-wire reel and straightener.....	562,476	June 23	2469	599	75	1894
Miller, George H., North Hope, Pa. Thread holder and cutter.....	565,771	Aug. 11	1512	368	76	917
Miller, George O., North Tonawanda, N. Y. Ventilating apparatus.....	564,411	July 21	2061	483	76	411
Miller, George W., Woonsocket, R. I. Cloth-pressing machine.....	560,733	May 26	2561	{ 589 590 }	75	1238
Miller, Gordon B., Argentine, Kans. Lubricator.....	567,788	Sept. 15	1829	439	76	1650
Miller, Gordon D., Jersey City, N. J. Dredging apparatus.....	562,232	June 16	2058	498	75	1602
Miller, Harry, Clarence, Iowa. Axle-lubricator.....	554,451	Feb. 11	1167	271	74	737
Miller, Helen E. (See O'Brien, Arthur, assignor.)						
Miller, Henry D., and H. D. Tilman, Greenville, Ohio. Wire-fence stay.....	557,593	Aug. 7	115	29	75	23
Miller, Henry E., Petersburg, Ohio. Pruning-shears.....	565,684	Apr. 11	1351	328	76	888
Miller, Henry V., Bloomington, Ill., assignor to O'Neill Crossing Alarm Company, of Illinois. Automatic railway-signal.....	562,639	June 23	2751	668	75	1947
Miller, Herbert E. (See Miller, Homer R., assignor.)						
Miller, Homer R., assignor of one-half to H. E. Miller, South Framingham, Mass. Hot-water heating apparatus.....	556,828	Mar. 24	2415	567	74	1630
Miller, Isaac and J., Richwood, Ohio. Egg-tester.....	561,906	June 9	1505	364	75	1679
Miller, Israel F., assignor to L. H. Tourtellotte, Boston, Mass. Automatic self-closing door.....	555,652	Mar. 3	297	70	74	1183
Miller, Jacob N., Bellefontaine, Ohio. Vehicle-body.....	569,794	Oct. 20	1906	{ 452 453 }	77	387
Miller, Jacob W. (See Huber and Miller.)						
Miller, James, Sault Ste. Marie, Canada. Alluvial-gold washer.....	569,113	Oct. 6	675	158	77	129
Miller, James A. (See Ashald and Miller.)						
Miller, James A., New Haven, Conn. Car-step.....	558,194	Apr. 14	1213	296	75	246
Miller, James C. (See Wood and Miller.)						
Miller, James K. P., assignor of one-half to S. P. West, Woodville, Tex. Rest for pivot-ing-lathes.....	562,407	June 23	2350	574	75	1872
Miller, James M., and W. L. B. Collins, Vacaville, Cal. Momentum-engine.....	554,073	Feb. 4	494	111	74	595
Miller, Jesse G., Fort Seneca, Ohio. Hame-fastener.....	558,695	Apr. 21	2082	503	75	425
Miller, John, assignor of one-fourth to E. E. Gatchell, Stuart, Iowa. Hardening copper.....	566,462	Aug. 25	2774		76	1191
Miller, John A., Indianapolis, Ind. Car-wheel.....	572,556	Dec. 8	815	195	77	1449
Miller, John C., assignor to Matthews & Willard Manufacturing Company, Waterbury, Conn. Drip-trough for central-draft lamps.....	566,208	Aug. 18	2282	558	76	1083
Miller, John C., assignor to Matthews & Willard Manufacturing Company, Waterbury, Conn. Drip-trough for central-draft lamps.....	566,209	Aug. 18	2283	559	76	1083
Miller, John D., Riverdale, Md., assignor of two-thirds to S. M. Jones and C. M. Towson, Washington, D. C. Letter-carrier's register.....	559,736	May 5	642	155	75	804
Miller, John E., assignor to G. Duncan's Sons & Co., Washington, Pa. Glass-holding snap.....	572,308	Dec. 1	395	94	77	1353
Miller, John H. (See Plenty and Miller.)						
Miller, John H., Washington, D. C., assignor of one-half to R. T. Meany, New York, N. Y. Attachment for telephones.....	561,416	June 2	625	156	75	1489
Miller, John H., assignor to United States Wind Engine and Pump Company, Batavia, Ill. Windmill.....	566,002	Aug. 18	1947	{ 471 472 }	76	1020
Miller, John J. A., Denver, Colo. Bed-spring tightener.....	569,114	Oct. 6	675	158	77	129
Miller, John J. A., Denver, Colo. Railway-car wheel.....	573,519	Dec. 22	2565	609	77	1817
Miller, John K. (See Groff and Miller.)						
Miller, John M. (See Allen and Miller.)						
Miller, John R., Thomasville, Ga. Screw-propeller for vessels.....	562,190	June 16	1998	484	75	1791
Miller, John S., Goshen, Ind. Hydraulic press.....	571,493	Nov. 17	1884	{ 449 450 }	77	1031
Miller, Joseph. (See Miller, Isaac and J.)						
Miller, Joseph A., Providence, R. I. Automatic fire-extinguisher installation.....	558,653	Apr. 21	2004	485	75	411
Miller, Joseph A., Providence, R. I. Railway-car.....	568,166	Sept. 22	2523	{ 607 608 }	76	1792
Miller, Joseph A., Providence, R. I. Wire-wound gun.....	568,914	Oct. 6	332	77	77	64
Miller, Joseph A., Providence, R. I., assignor to G. Draper & Sons, Hopedale, Mass. Spin-ning-machine.....	557,688	Apr. 7	292	70	75	56

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Miller, Joseph F., assignor of one-half to O. J. Frey, Cleveland, Ohio. Valve for fire-extinguishing systems.	559,944	May 12	1094	243	75	900
Miller, Joseph F., assignor of one-third to E. H. Breckon, North Tonawanda, N. Y. Car-cuspidor.	561,681	June 9	1103	264	75	1603
Miller, Joseph H., assignor of one-third to F. Springer, Oklahoma, Okla. Ter. Vehicle-brake.	569,342	Oct. 13	1085	257	77	224
Miller, Kempster B., Washington, D. C. Electric governor.	559,187	Apr. 28	2974	719	75	610
Miller, Kempster B., Wilkesburg, Pa. Telephone-exchange system.	561,335	June 2	481	122	75	1463
Miller, Lebbens B., Elizabeth, N. J. Electrical circuit-closer.	554,074	Feb. 4	495	112	74	596
Miller, Lee A., Milwaukee, assignor of one-half to S. B. Fuller, Watertown, Wis. Sewing-machine.	572,557	Dec. 8	816	196	77	1449
Miller, Lewis, Akron, Ohio. Cutting apparatus for mowing and reaping machines.	552,665	Jan. 7	286	77	74	55
Miller, Lewis, Akron, Ohio. Truck-wheel attachment for harvesters.	552,666	Jan. 7	287	78	74	56
Miller, Lewis, Akron, Ohio. Grain-binder.	571,072	Nov. 10	1168	272 273 274 275	77	884
Miller, Lewis, Akron, Ohio. Grain-binding harvester.	571,073	Nov. 10	1173	275	77	884
Miller, Lewis K., Clarksburg, Mo. Bicycle-holder.	574,253	Dec. 29	3954	940	77	2088
Miller, Libbie H., Washington, D. C. Copyist's line-marker.	566,864	Sept. 1	218	50	76	1324
Miller, Mary. (See Miller, Augustus S., assignor.)						
Miller, Mathias, Auburn, Ind. Vertical water-tube boiler.	567,913	Sept. 15	2031	4-7	76	1690
Miller, Max, assignor of two-thirds to C. Brownold and A. L. Tuska, New York, N. Y. Switch.	560,814	May 26	2701	621	75	1265
Miller, McGonigale. (See Kirker, Miller, and Williams.)						
Miller, O. A. (See Barlow, John W., assignor.)						
Miller, O. A. (See Locke, Howard G., assignor.)						
Miller, Orison C., Harveyville, Kans. Corn-harvester.	573,895	Dec. 29	32-0	774	77	1961
Miller, Robert, Redfield, S. D. Hot-water heater.	566,600	Aug. 25	2973	726	76	1230
Miller, Samuel A. (See Davis and Miller.)						
Miller, Samuel H., Stockton, Cal. Disk gang-plow.	568,094	Sept. 22	2402	578 579	76	1769
Miller, Samuel M., assignor to Kroyer, Mayes & Jackson, Stockton, Cal. Gas-engine.	553,352	Jan. 21	1573	375	74	321
Miller, Stephen A., assignor of one-half to A. O. Miller, Plain, Ohio. Draft-equalizer.	554,285	Feb. 11	874	201	74	682
Miller, Thomas, Edinburgh, Scotland. Wheel for tram-cars, &c.	554,523	Feb. 11	1280	300	74	758
Miller, Thomas M. (See Cleary and Miller.)						
Miller, Thomas M., a-signor of one-half to C. G. Nickum, Bethlehem, Pa. Car-fender.	570,943	Nov. 10	953	221	77	844
Miller, Thomas S., South Orange, N. J. Conveying apparatus.	561,334	June 2	479	121 122	75	1462
Miller, Thomas S., South Orange, N. J. Conveying apparatus.	574,039	Dec. 29	3521	840	77	2010
Miller, Thomas S., Burlington, Iowa. Bicycle.	570,179	Oct. 27	2572	611	77	526
Miller, Uriah E., and P. Barringer, Heilig, N. C. Horse-hitching device.	557,005	Mar. 24	2719	644	74	1687
Miller, William. (See Atkinson and Miller.)						
Miller, William D., Lebanon, Ky. Swinging gate.	563,393	July 7	265	59	76	53
Miller, William H. (See Steele, Frances B., assignor.)						
Miller, William H., Philadelphia, Pa. Device for securing delivery-receptacles.	573,341	Dec. 15	2224	532	77	1736
Miller, William I., Edgar, Nebr. Check-valve.	573,342	Dec. 15	2225	532	77	1736
Miller, William J., Columbus, Ohio. Glass-cutter.	565,493	Aug. 11	1012	244	76	823
Miller's Falls Company. (See McCoy, William H., assignor.)						
Millert, Edgar B., Portland, Oreg., assignor to M. E. Millert, Salt Lake City, Utah. Letter-copying press.	555,653	Mar. 3	299	70	74	1183
Millert, May E. (See Millert, Edgar B., assignor.)						
Millet, Felix T., Persan, France. Velocipede.	564,155	July 14	1623	380 381 382	76	319
Millholland, William K. (See Halvorsen, Halbert B., assignor.)						
Milliken, Foster, New York, N. Y. Driving mechanism for drills.	569,115	Oct. 6	677	158	77	129
Milliken, George F., Boston, Mass. Fire-alarm signal-box.	565,086	Aug. 4	231	57	76	659
Milliken, George F., Boston, Mass. Fire-alarm signal-box.	571,950	Nov. 24	2705	640	77	1205
Milliken, John A., Brooklyn, N. Y. Clipping-machine.	558,973	Apr. 28	2563	621	75	532
Milliken, William A. (See Harris, William H., assignor.)						
Millikin, James, Canaan, Ohio. Hay-stacker.	565,685	Aug. 11	1352	329	76	888
Mills, Andrew, New York, N. Y. Circular stone-saw.	555,611	Mar. 3	215	50	74	1169
Mills, Arthur L., Toledo, Ohio. Nut-lock washer.	560,042	May 12	1278	287	75	938
Mills, Benjamin F., Cambridge, Mass. Tank-valve.	573,025	Dec. 15	1643	395	77	1630
Mills, Charles, assignor to Pettee Machine Works, Newton, Mass. Means for applying wire clothing to flats.	565,554	Aug. 11	1117	270	76	842
Mills, Edmund J., Glasgow, Scotland. Preparing soluble colloids.	569,112	Oct. 6	674		77	129
Mills, Francis A., assignor of one-half to J. Mundell, Philadelphia, Pa. Sewing-machine.	555,824	Mar. 3	558	123 134	74	1232
Mills, Francis A., assignor of one-half to J. Mundell, Philadelphia, Pa. Sewing-machine.	563,903	July 14	1165	274	76	233
Mills, Francis A., assignor of one-half to J. Mundell, Philadelphia, Pa. Sewing-machine.	571,007	Nov. 10	1057	246 247	77	864
Mills, Frank P. (See Lane and Mills.)						
Mills, Hiram R., Port Huron, Mich. Atomizer.	560,225	May 19	1627	370	75	1053
Mills, John E. (See Treadgold and Mills.)						
Mills, Jonathan, New York, N. Y., W. H. Ratcliff, and F. L. Barr, Newark, N. J., assignors to Punctureless Tire Company, of West Virginia. Pneumatic tire for wheels.	564,212	July 21	1722	403	76	350
Mills, Leighton, Plymouth, England. Spanner.	554,522	Feb. 11	1279	300	74	758
Mills, Norman T., Cambridge, Mass. Bicycle-bell.	562,638	June 23	2749	668	75	1947
Mills, Norman T., Everett, assignor of one-half to A. T. Morrill, Brookline, Mass. Bell.	568,693	Sept. 29	3469	830	76	1984
Mills, Robert J., New York, N. Y. Cut-off for refrigerators.	556,429	Mar. 17	1735	403	74	1487
Mills, Warren F., et al. (See Wenzel, Rudolph G., assignor.)						
Mills, William, Sunderland, England. Head for golf-clubs.	572,436	Dec. 1	620	147	77	1396
Mills, William S., Bridgeport, Conn. Work-feeding attachment for sewing-machines.	552,691	Jan. 7	336	89	74	66
Milne, Joseph J., assignor to Milne Manufacturing Company, Monmouth, Ill. Stump-extractor.	569,507	Oct. 13	1360	319	77	272
Milne Manufacturing Company. (See Milne, Joseph J., assignor.)						
Milner, Albert R., assignor to A. R. Milner Seating Company, Canton, Ohio. Automatic-acting stool.	567,320	Sept. 8	1054	251	76	1489
Milner, George, assignor to W. E. Conway, Brooklyn, N. Y., and B. F. Palmer, Sound Beach, Conn. Spike.	563,050	June 30	3497	840	75	2112
Milner, Joseph R., Chicago, Ill. Amalgamator.	565,628	Aug. 11	1249	301	76	867
Milnes, John C., Cedar Rapids, Iowa. Milk-ticket.	553,251	Jan. 21	1386	338	74	289

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Milsted, Penrose N., East Orange, N. J. Prepayment appliance.	563,198	June 30	3777	{ 904 905 }	75	2165
Milsted, William N., New York, N. Y., assignor to Prepayment Appliance Company, Burlington, N. J. Prepayment gas-controller.	559,737	May 5	643	155	75	805
Milton, John, Alexandria, Va. Locomotive-boiler furnace.	567,312	Mar. 31	3272	784	74	1811
Milwaukee Brass and Copper Works. (See Peters, Leonard A., assignor.)						
Milwaukee Gas Stove Company. (See Detwiler, Alfred E., assignor.)						
Milwaukee Harvester Company. (See Crandall, Henry F., assignor.)						
Milwaukee Harvester Company. (See Crandall and Birkett, assignors.)						
Milwee, Tallie, et al. (See Williams, John S., assignor.)						
Mincer, Louis L., assignor of three-fourths to H. Michaels, R. Soble, and S. Savage, Rochester, N. Y. Car-fender.	562,477	June 23	2470	599	75	1895
Minchew, Charles H., assignor of one-half to H. T. Minchew, Taunton, Mass. Electric heater.	563,780	July 14	921	220	76	188
Minchew, Henry T. (See Minchew, Charles H., assignor.)						
Minck, George, New York, N. Y. Cigar.	553,310	Jan. 21	1500	360	74	309
Miner, Benjamin D., and H. H. Elbreg, Indianapolis, Ind.; said Elbreg assignor to said Miner. Physician's cabinet.	553,473	Jan. 21	1766	421	74	359
Miner, Charles, Philadelphia, Pa. Whisk-broom holder.	552,921	Jan. 14	813	198	74	165
Miner & Co. (See Norden, Mortimer, assignor.)						
Miner, William H., Chicago, Ill. Draft-rigging for cars.	570,038	Oct. 27	2312	549	77	476
Mineralized Rubber Company. (See Le Clair, Alfred J., assignor.)						
Mingle, William J., Lancaster, Pa., and T. Bemis, assignors, by mesne assignments, to Specialty Manufacturing Company, Indianapolis, Ind. Water-motor fan.	565,772	Aug. 11	1513	368	76	917
Mingle, William J., Lancaster, Pa., assignor, by mesne assignments, to Specialty Manufacturing Company, Indianapolis, Ind. Water-motor fan.	572,558	Dec. 8	819	197	77	1450
Mings, George W., Holy Cross, Colo. Calipering-instrument.	554,524	Feb. 11	1282	{ 300 301 }	74	758
Minich, Daniel, assignor of one-half to D. Gerstlaue, Philadelphia, Pa. Circular-knitting device.	569,463	Oct. 13	1273	300	77	257
Minich, Verne E., Paola, Kans. Fountain-pen.	562,842	June 30	3126	757	75	2036
Minich, Verne E., Chillicothe, Ohio. Penholder.	573,520	Dec. 22	2566	609	77	1817
Minich, William J., assignor of one-fourth to W. W. Vandermark, Nanticoke, Pa. Adjustable bracket for shade-rollers.	564,444	July 21	2116	495	76	420
Mining and Dredging Power Company. (See Hussey, Levi, assignor.)						
Mink, Fritz, assignor to Keystone Watch Case Company, Philadelphia, Pa. Watch-bow fastener.	553,589	Jan. 28	1984	470	74	415
Mink, Fritz, assignor to Keystone Watch Case Company, Philadelphia, Pa. Watchcase-spring.	560,812	May 26	2699	620	75	1265
Mink, Fritz, assignor to Keystone Watch Case Company, Philadelphia, Pa. Watch-bow fastener.	560,813	May 26	2700	620	75	1265
Mink, Fritz, assignor to Keystone Watch Case Company, Philadelphia, Pa. Machine for spinning circular forms of metal.	568,984	Oct. 6	466	{ 105 106 }	77	89
Mink, Fritz, assignor to Keystone Watch Case Company, Philadelphia, Pa. Chuck.	568,985	Oct. 6	471	106	77	90
Mink, Fritz, and N. Moore, assignors to Keystone Watch Case Company, Philadelphia, Pa. Mechanism for making watchcase-pendants.	561,942	June 9	1568	380	75	1691
Minnich, Mary C. (See Minnich, Simon B., assignor.)						
Minnich, Simon B., assignor to M. C. Minnich, Landisville, Pa. Rotary blower.	573,609	Dec. 22	2723	647	77	1849
Minnis, Paul, assignor of one-half to Home Telephone Company, Mobile, Ala. Automatic battery-reverser.	557,854	Apr. 7	588	140	75	111
Minnis, Paul, assignor of one-half to Home Telephone Company, Mobile, Ala. Telephone system.	561,417	June 2	626	{ 156 157 }	75	1489
Minnis, Paul, assignor of one-half to Home Telephone Company, Mobile, Ala. Telephone-exchange system.	561,418	June 2	632	157	75	1490
Minnis, Paul, assignor of one-half to Home Telephone Company, Mobile, Ala. Switch-board for telephone systems.	561,419	June 2	634	{ 157 158 }	75	1490
Minnis, Paul, assignor of one-half to Home Telephone Company, Mobile, Ala. Line-jack for telephonic switchboards.	561,420	June 2	642	158	75	1491
Minnis, Paul, assignor of one-half to Home Telephone Company, Mobile, Ala. Telephone call-box.	561,421	June 2	644	159	75	1492
Minnis, Paul, assignor of one-half to Home Telephone Company, Mobile, Ala. Telephone call-signal for central stations.	561,422	June 2	647	159	75	1492
Minnis, Paul, assignor of one-half to Home Telephone Company, Mobile, Ala. Telephone.	561,423	June 2	649	159	75	1493
Minnis, Paul, assignor of one-half to Home Telephone Company, Mobile, Ala. Telephone switch-plug.	561,424	June 2	651	159	75	1493
Minniss, Thomas S., assignor to R. B. Thompson, Meadville, and A. C. Bane, Pittsburg, Pa. Combined child's carriage and sled.	572,059	Nov. 24	2894	683	77	1239
Minor, Benjamin S. (See Maloney, James A., assignor.)						
Minor, James L., and W. Krauss, Memphis, Tenn. Stop and waste cock.	560,519	May 19	2138	489	75	1143
Minor, John A., and J. J. Hoover, Baileyville, Kans. Subsoil-plow.	558,195	Apr. 14	1214	296	75	247
Minor, John E. (See Robinson, William M., assignor.)						
Minor, Wallace G., Los Angeles, Cal. Water-still and water-heating and cooking appliance.	556,157	Mar. 10	1200	280	74	1371
Minrath, Ferdinand R. (See Kayser, Charles, assignor.)						
Misell, David, New York, N. Y. Electric light and signaling device.	559,143	Apr. 28	2904	702	75	597
Mishele, Moses, Gloversville, N. Y. Vehicle.	569,343	Oct. 13	1086	258	77	224
Mishler, Henry A., Mechanicsburg, Pa. Drawing-slate.	564,211	July 21	1723	403	76	350
Misic, Michael, Brooklyn, N. Y. Boiler-cleaner.	557,007	Mar. 24	2722	645	74	1688
Misic, Michael, and W. Foster, assignors to Foster Pump Works, Brooklyn, N. Y. Method of and apparatus for elevating liquids.	555,785	Mar. 3	489	118	74	1218
Missroon, John D., assignor to Clinton Wire Cloth Company, Clinton, Mass. Slate-picker.	560,858	May 26	2796	642	75	1253
Mitchell, Abram, Shelter Island, assignor of one-half to A. S. French, Brooklyn, N. Y. Reflector for compass-boxes.	565,011	Aug. 4	83	20	76	633
Mitchell, Albert R., Lincoln, Nebr. Stethoscope.	555,522	Mar. 3	62	14	74	1142
Mitchell, Andrew W., Winthrop, assignor to G. A. Copeland, Revere, Mass. Electric-car brake.	564,632	July 28	2448	576	76	499
Mitchell, Charles G., Pittsburg, Pa. Saw-filing apparatus.	566,003	Aug. 18	1949	472	76	1021
Mitchell, E. Madison. (See Coakley, Thomas H., assignor.)						
Mitchell, Edward D., Brooklyn, and J. Hearne, New York, N. Y. Gas-meter.	555,786	Mar. 3	491	118	74	1219
Mitchell, Frederick A., Mitchell, Ind. Lubricator.	552,851	Jan. 7	653	160	74	123
Mitchell, Frederick J., New York, N. Y. Operating mechanism for air-forcing apparatus.	573,026	Dec. 15	1644	395	77	1631
Mitchell, George, London, England. Press for extracting oil or other liquids.	570,491	Nov. 3	102	24, 25	77	657
Mitchell, George R., Newtown, Pa. Electric trolley.	557,008	Mar. 24	2723	{ 645 646 }	74	1688

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Mitchell, Gideon D., assignor to himself and A. E. S. Danner, Newton, Kans. Cultivator-beam coupling	572,813	Dec. 8	1282	308	77	1541
Mitchell, Hirtie F., Rayville, Tex. Bridge	562,191	June 16	1999	484	75	1791
Mitchell, James A., Warren, Ind. Fence-stay machine	561,122	June 2	76	20	75	1382
Mitchell, James A., Warren, Ind., assignor of one-half to E. C. Keyes, Tiffin, Ohio. Improvement for plashing hedges	573,343	Dec. 15	2226	532	77	1737
Mitchell, James C., Lancaster, N. H., assignor of three-fourths to H. R. and T. M. West, and D. McDonell, Lewiston, Me. Swivel or fifth-wheel for railway-vehicles	553,537	Jan. 28	1888	446	74	398
Mitchell, James C., Lancaster, N. H., assignor of three-fourths to H. R. and T. M. West, E. C. Wood, Lewiston, and G. F. Thompson, New Gloucester, Me. Steam-coupling	558,696	Apr. 21	2084	503	75	425
Mitchell, James F., and E. A. Rich, Opolis, Kans. Tongue-support for vehicles	562,640	June 23	2752	662	75	1948
Mitchell, James H., Philadelphia, Pa. Oven	558,654	Apr. 21	2006	485	75	411
Mitchell, James H., Philadelphia, Pa. Plant for storage of coal	562,408	June 23	2351	574	75	1873
Mitchell, James H., Philadelphia, Pa. Apparatus for piling coal	562,409	June 23	2353	575	75	1873
Mitchell, James H., Philadelphia, Pa. Adjustable drag-chain	566,995	Sept. 1	462	106	76	1369
Mitchell, John E., assignor to Harmon Manufacturing Company, Jackson, Mich. Sifting-machine	568,915	Oct. 6	333	77, 78	77	64
Mitchell, John H. (See Bills, Horatio S., assignor.)						
Mitchell, John M., New York, N. Y. Machine for mixing combustible gas and air	558,408	Apr. 14	1575	384	75	314
Mitchell, John S., Greensborough, Md. Metallic railway-tie	572,437	Dec. 1	621	147	77	1396
Mitchell, Jonas L., Chicago, Ill., assignor to Sullivan Machinery Company, Chicago, Ill., and Claremont, N. H. Tunneling-machine	565,494	Aug. 11	1014	245	76	824
Mitchell, Justus A., Orillia, Iowa. Potato sorter and cleaner	552,538	Jan. 7	61	17	74	14
Mitchell, Martin L., Belfast, Me. Flush-tank for water-closets	560,912	May 26	2895	664	75	1302
Mitchell, Patrick J., Boston, assignor of one-half to J. J. Barry, Jamaica Plain, Mass. Draft appliance for chimneys	560,169	May 12	1512	342	75	981
Mitchell, Robert A., Brooklyn, assignor to Self Winding Clock Company, New York, N. Y. Electric self-winding clock	561,943	June 9	1569	321	75	1691
Mitchell, Rudolph J., Jenkintown, Pa. Window	565,118	Aug. 4	298	70, 71	76	672
Mitchell, Samuel W. R., Burrows, Ind. Nut-lock	565,911	Aug. 18	1771	431	76	985
Mitchell, Walter P., and W. R. Gillespie, Covington, Ky. Hypodermic syringe	561,059	May 26	3128	721	75	1346
Mitchill, Cornelius S. (See Bowles, John, assignor.)						
Mitchill, Cornelius S. (See Walker, Louis A., assignor.)						
Mitts, Edward G., Shawneetown, Ill. Revolving hand-stamp	566,525	Aug. 25	2867	696	76	1209
Mix, Frank W., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock for sliding closures	563,671	July 7	736	173	76	138
Mix, Judd W., Byron, Ill. Mending punctures in pneumatic tires	553,562	Jan. 28	1936	457	74	406
Mix, Judd W., Byron, Ill. Probe for inserting patches in pneumatic tires	557,213	Mar. 31	3094	742	74	1779
Mixer, Charles E. (See Lewis and Mixer.)						
Mixer, Charles E., and C. L. Lewis, Boston, Mass. Fastener or clasp for articles of apparel	573,829	Dec. 22	3131	746	77	1925
Mizuhara, Hiosuke, San Francisco, Cal. Cement	558,738	May 5	645		75	805
Moats, Ortus E., assignor to Aultman Company, Canton, Ohio. Road-making machine	561,804	June 9	1330	319	75	1646
Mobbs, Harry W., and A. Lewis, Kettering, England. Boot-tree	553,562	July 7	451	105	76	87
Mober, Charles J., Minneapolis, Minn. Grain-cleaner	552,769	Jan. 7	488	120	74	92
Moccia, Raffaele, New York, N. Y. Tailor's square	568,263	Sept. 22	2688	644	76	1823
Mock, Henry, et al. (See Kinkel, Charles, assignor.)						
Mock, Henry, New York, N. Y. Apparatus for removing cakes of ice from freezing-cans	556,584	Mar. 17	2004	468	74	1536
Mock, James F., Muncie, Ind. Brick-drying rack	568,054	Sept. 22	2279	551	76	1747
Modée, Knut A., Boston, Mass. Piano-case	555,612	Mar. 3	217	51	74	1170
Model Casket Company. (See Knapp, William C., assignor.)						
Modes, William F., and A. J. Ugel, Cicero, Ind. Glass-tank furnace	563,293	July 7	191	24	76	21
Moe, Leonidas L., assignor to Denver Automatic Car Coupler Company, Denver, Colo. Car-coupling	573,896	Dec. 29	3252	774	77	1962
Moe, Olaf A., Ellsworth, Wis. Sleigh-runner	555,580	Mar. 3	162	38	74	1160
Moedel, Gustave A. (See Scaife and Moedel.)						
Moehn, John N., Milwaukee, Wis. Vial for soluble tablets	567,488	Sept. 8	1330	321	76	1540
Moehn, John N., assignor of three-fourths to J. Katz, A. Mahler, D. J. Hayes, and W. S. Scofield, Milwaukee, Wis. Washboiler attachment	560,594	May 19	2268	519	75	1167
Moffat, John M., London, England. Socket and switch for incandescent lamps	569,931	Oct. 20	2123	505	77	427
Moffat, John M., London, England. Cell or box for electric batteries	572,438	Dec. 1	622	148	77	1396
Moffet, Oliver R., Joplin, Mo. Apparatus for condensing lead fumes	554,945	Feb. 18	2015	477	74	914
Moffett, Charles J. (See Davis, John T., assignor.)						
Mohn, James W., Philadelphia, Pa. Thread-holder	566,210	Aug. 18	2284	559	76	1083
Mohn, John, assignor to American Tap Bush Company, Detroit, Mich. Tap-bushing	573,990	Dec. 29	3440	823	77	1995
Mohr, Charles W. and J. A., Spokane, Wash. Boiler-furnace	558,510	Apr. 21	1769	429	75	368
Mohr, Ernst, assignor to Kieckhefer Brothers Company, Milwaukee, Wis. Bearing for pail-handles	565,292	Aug. 4	638	151	76	733
Mohr, Frederik, assignor, by mesne assignments, to Fried. Krupp Grusonwerk, Magdeburg, Germany. Primer	573,897	Dec. 29	3253	775	77	1962
Mohr, John A. (See Mohr, Charles W. and J. A.)						
Mohr, William H., assignor of one-half to I. S. Bailey, Plantsville, Conn. Shaving-knife	558,655	Apr. 21	2008	486	75	412
Mohs, Julius, Brandenburg, Germany. Machine for making decorative tiles	566,211	Aug. 18	2285	559	76	1084
Molas, Jean, London, England. Hydraulic-pressure machine	556,196	Mar. 10	1274	297	74	1384
Moldenke, Richard G. G., Pittsburg, Pa. Apparatus for melting metals	569,221	Oct. 13	869	205	77	182
Molé, Charles, Boston, Mass. Necktie-fastener	565,087	Aug. 4	236	57	76	660
Mole, James R., Janesville, Wis. Harness-buckle	569,584	Oct. 13	1510	356	77	301
Moll, Frederick J., Sr. (See Barker, John A., assignor.)						
Möller, Berthel G. P. (See Andersen, Jens P., assignor.)						
Moller, George H., assignor to H. G. Moller, Morristown, N. J. Glove-fastener	553,866	Feb. 4	93	20	74	523
Moller, George H., assignor to H. G. Moller, New York, N. Y. Safety-fender for cars	557,334	Mar. 31	3308	793	74	1818
Moller, Harold G. (See Moller, George H., assignor.)						
Moller, Jacob A., Jr., New York, N. Y. Bottle-top	565,012	Aug. 4	84	20	76	633
Molteni, Alexander G., Hoboken, N. J. Clothes-line conveyer	557,996	Apr. 7	860	217	75	162
Moltrup, Stephen. (See Moltrup, William and S.)						
Moltrup, William and S., assignors to Standard Gauge Steel Company, Beaver Falls, Pa. Milling-machine	557,594	Apr. 7	116	29	75	23
Moltz, George A., Richmond, Va., assignor to Twisted Wire Box Strap Company, New York, N. Y. Box-strap	564,569	July 21	2332	547	76	459

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Molyneux, Barton S., Minneapolis, Minn., assignor, by mesne assignments, to Molyneux Electric Manufacturing Company, of New York. Engraving-machine.....	555,581	Mar. 3	164	38, 39	74	1160
Molyneux Electric Manufacturing Company. (See Molyneux, Barton S., assignor.)						
Monaghan, Marcus A. (See Gostomski and Kiniewski, assignors.)						
Monaghan, Thomas L., New York, N. Y. Sand-box for street-railway cars.....	555,787	Mar. 3	492	119	74	1219
Monaghan, Thomas L., New York, N. Y. Sand-box.....	565,773	Aug. 11	1514	369	76	918
Monaghan, Thomas L., New York, N. Y. Wind-screen for vehicles.....	567,860	Sept. 15	1960	470	76	1676
Monahan, Louis J., and J. D. Termaat, Oshkosh, Wis. Gas and gasoline engine.....	561,123	June 2	77	21	75	1382
Monakay, Edward, Mineville, N. Y. Heater for stoves.....	565,495	Aug. 11	1025	246	76	825
Mondragon, Manuel, Mexico, Mexico, assignor to Leclercq & Hirt, Liege, Belgium. Breech-loading bolt-gun.....	557,079	Mar. 24	2833	675	74	1712
Moneymont, Matthew, assignor of one-half to J. P. Kinkaid, Philadelphia, Pa. Opera-glass.....	566,274	Aug. 18	2375	582	76	1101
Monfort, Joseph B., Fairfield, Iowa, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dentist's cap-crown splitter.....	553,718	Jan. 28	2198	522	74	454
Moniot, Frank. (See Flammang and Moniot.)						
Monkiewicz, Alexander, Pittsburg, Pa. Gearing for bicycles.....	573,230	Dec. 15	2016	{ 483 484 }	77	1699
Monks, Herbert. (See Monks, James and H.)						
Monks, James and H., Hartford, Conn. Sprocket chain and wheel.....	564,830	July 28	2780	661	76	559
Monnett, John P., Rensselaer, Ind. Reelcleaner for threshing-machines.....	572,086	Nov. 24	2968	698	77	1253
Monnier, Alfred P., Greenfield, assignor of three-fourths to J. C. Goodrich, Detroit, Mich. Spinning-top.....	561,944	June 9	1571	381	75	1692
Monosmith, Reason. (See Curtice, Reuben E., assignor.)						
Monrath, Gustave. (See Heidenreich and Monrath.)						
Monroe, Clarence A., Loveland, Colo. Stable-cleaning device.....	556,637	Mar. 17	2083	487 { 646 647 648 }	74	1551
Monroe, Edwin P., Philadelphia, Pa. Door for cars.....	557,009	Mar. 24	2726	{ 647 648 }	74	1689
Monroe, Elmer E., Boston, Mass. Lead-pencil.....	567,991	Sept. 22	2188	526	76	1731
Monroe, Gilbert K., Pemberton, Ohio. Venetian-blind hanger.....	552,871	Jan. 7	699	170	74	132
Monroe, Gilbert K., Pemberton, Ohio. Window-screen.....	554,192	Feb. 4	708	160	74	635
Monroe, Nathaniel S., Arcola, Ill. Washboard.....	571,574	Nov. 17	2029	483	77	1057
Monroe, Publius V., Waukesha, Wis. Carpet-stretcher.....	569,650	Oct. 20	1633	386	77	340
Monroe, William R., Unionville, Ohio. Machine for distributing insecticides.....	555,256	Feb. 25	2586	607	74	1036
Montardon, Rémi J. G., Paris, France. Portable fire-escape.....	554,709	Feb. 18	1608	379	74	837
Montgomery, Alexander, Newton, Mass. Elastic-core semimetallic packing.....	557,855	Apr. 7	590	140	75	111
Montgomery, Edwin H., assignor, by mesne assignments, of one-half to M. Thommes, St. Paul, Minn. Combined switch and fuse-block.....	559,340	Apr. 28	3260	787	75	663
Montgomery, Edwin H., assignor of one-third to M. Thommes, St. Paul, Minn. Multiple fuse-block.....	571,093	Nov. 10	1212	284	77	892
Montgomery, George M., et al. (See Montgomery, John R., assignor.)						
Montgomery, Harry C., Cleveland, Ohio. Supply valve or faucet.....	570,811	Nov. 3	704	161	77	768
Montgomery, James S. (See Hart, Richard E., assignor.)						
Montgomery, John A., Birmingham, Ala., assignor to S. B. Mason, Lewisburg, W. Va. Combined coke drawing, cleaning, sprinkling, and loading machine.....	563,781	July 14	922	{ 220 221 }	76	189
Montgomery, John R., assignor of three-fourths to G. M. Montgomery, Windsor Locks, Conn., and G. Draper & Sons, Hopedale, Mass. Spinning or twisting machine.....	572,659	Dec. 8	1001	241	77	1489
Montgomery, John T., Battle Creek, Iowa. Wall-paper trimmer.....	564,708	Feb. 18	1607	{ 378 379 382 383 }	74	837
Montgomery, Mamie M., Gowensville, S. C. Motor.....	561,722	June 9	1189	{ 282 283 }	75	1620
Montgomery, Mercy P. (See Gawley, Hector, assignor.)						
Montgomery, Nina E., Indianapolis, and J. A. Rice, Ligonier, Ind. Window-sash.....	565,774	Aug. 11	1515	369	76	918
Montgomery, Smith H. (See Pewthers, Daniel P., assignor.)						
Montgomery, Thomas H., Oakland, Cal. Roof-cleat for hanging painters' falls.....	555,016	Feb. 18	2151	513	74	938
Monti, Antonio, assignor to P. Helbing, Como, Italy. Loom.....	559,460	May 5	195	43	75	719
Montross, Richard W. (See Smith, Melvin H., assignor.)						
Montzheimer, Arthur, Milwaukee, Wis. Mail-crane.....	568,955	Oct. 6	408	92	77	78
Moodie, John W., Buffalo, N. Y. Antifreezing-cover for hydrants.....	565,013	Aug. 4	86	20	76	633
Moody, Henry T., assignor to Victor Manufacturing Company, Newburyport, Mass. Apparatus for operating doors.....	556,158	Mar. 10	1202	281	74	1372
Moody, Henry T., assignor to Victor Manufacturing Company, Newburyport, Mass. Fusible joint.....	563,394	July 7	267	60	76	54
Moody, Joseph P. (See Abbott and Moody.)						
Moody, Sidney B., Harwich, Mass. Book-holder.....	553,289	Jan. 21	1468	353	74	303
Moody, Thomas A., Santa Monica, Cal. Egg-whisk.....	567,684	Sept. 15	1659	399	76	1618
Moody, Walter S., Lynn, Mass., assignor to General Electric Company, of New York. Transformer and cooling same.....	558,090	Apr. 14	1044	{ 255 256 }	75	213
Moody, Walter S., Lynn, Mass., assignor to General Electric Company, of New York. Alternating-current generator.....	560,735	May 26	2565	590	75	1239
Moody, Walter S., Lynn, Mass., assignor to General Electric Company, of New York. Electrical transformer.....	567,250	Sept. 8	894	214	76	1462
Moody, Ward B., Blackstone, Mass. Device for securing pickers to loom picker-staffs.....	561,269	June 2	331	83	75	1433
Moore, Charles W., Towanda, Pa. Rack for newspaper-files.....	560,005	May 12	1203	267	75	924
Moomaw, Henry E., assignor of two-thirds to O. L. Stearnes and J. Wylie, Salem, Va. Combination lock.....	565,363	Aug. 4	751	179	76	753
Moomy, Joseph G., Erie, Pa. Pneumatic tire.....	567,402	Feb. 18	1194	286	76	1515
Moomy, Joseph G., Erie, Pa. Apparatus for repairing pneumatic tires.....	567,402	Sept. 8	1194	286	76	1515
Moomy, Joseph G., assignor to M. H. Moomy, Erie, Pa., and Combination Roll and Rubber Company, Bloomfield, N. J. Forming tires or other tubes and molds for use therein.....	553,212	Jan. 14	1318	{ 319 320 }	74	261
Moomy, Joseph G., Erie, Pa., assignor of one-half to Combination Roll and Rubber Company, Bloomfield, N. J. Pneumatic tire.....	567,839	Sept. 15	1927	462	76	1669
Moomy, Mary H., et al. (See Moomy, Joseph G., assignor.)						
Moon, David, Walla Walla, Wash. Book-turner.....	567,403	Sept. 8	1196	286	76	1515
Moon, Edwin L., Columbus, Ohio. Tailor's measure.....	554,710	Feb. 18	1609	379	74	838
Moon, Elkanah, Muncie, Ind. Planter.....	563,503	July 7	452	{ 106 107 }	76	87
Moon, George R., Columbus, Ohio. Stove.....	560,274	May 19	1719	397	75	1070
Moon, Orville P. (See Marbach, Herman L., assignor.)						
Moon, Orville P., Lorain, Ohio. Device for regulating the flow of gas or vapor.....	562,410	June 23	2354	575	75	1873
Moon, Richard D., W. H. Spake, and J. H. Bain, Ferris, Tex. Quilting attachment for sewing-machines.....	554,629	Feb. 18	1813	425	74	878
Moon, Robert G., Bedford, Iowa. Safety flue and ventilator.....	572,174	Dec. 1	140	33	77	1304

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Moonelis, Emil. (See Munson, Albert L., assignor.)						
Moonelis, Emil, New York, N. Y. Cigarette or cigar	561,907	June 9	1506	364	75	1679
Mooney, Herman O. (See Davis and Mooney.)						
Mooney, John T. (See Walsh, Mooney, and Jordan.)						
Mooney, Timothy, Fall River, assignor to G. Draper & Sons, Hopedale, Mass. Check for picker-sticks	569,880	Oct. 20	2036	485	77	411
Mooney, William A. (See Worsdell, Jonathan, assignor.)						
Moor, Frederick A. T. (See Peirson and Moor.)						
Moore, Albert H., Boston, Mass. Folding bedstead	565,496	Aug. 11	1027	{ 246 247 609 610 }	{ 76 77 }	{ 826 1817 }
Moore, Alfred C., and S. McLaughlin, Los Angeles, Cal. Photographic-printing frame	573,521	Dec. 22	2567	{ 246 247 609 610 }	{ 76 77 }	{ 826 1817 }
Moore, Alfred J. (See Fallows and Moore.)						
Moore, Allen D., Montpelier, Vt. Water-motor	559,740	May 5	647	156	75	805
Moore, Arthur D. (See Strecker and Moore.)						
Moore, Bart. (See Summers, Dewitt C., assignor.)						
Moore, Benjamin F., and C. A. Weller; said Moore assignor of one-sixth and said Weller assignor to J. Gibney, Sing Sing, N. Y. Hop-picker	563,504	July 7	458	{ 107 108 }	{ 76 74 }	{ 88 1630 }
Moore, Byron J., Oak Hill, Ill. Antikicking device	556,829	Mar. 24	2416	567	74	1630
Moore, Calvin F. (See Roberson and Moore.)						
Moore, Charles C., Jr., Lexington, Ky. Sampling-machine	573,610	Dec. 22	2726	648	77	1849
Moore, Charles C., assignor to F. L. Van Demark, San Francisco, Cal. Water-filter	565,416	Aug. 4	840	198	76	772
Moore, Charles E., assignor to M. K. Bowen, Chicago, Ill. Rail-bond and electrical connector	557,139	Mar. 31	2943	704	74	1755
Moore, Charles H., Jr. (See Hamilton and Moore.)						
Moore, Charles H., Yonkers, N. Y. Washbasin-fixture	559,188	Apr. 28	2976	719	75	610
Moore, Charles H., Yonkers, N. Y. Washbasin, &c.	563,672	July 7	737	174	76	138
Moore, Charles H., New York, N. Y. Water-closet apparatus	574,339	Dec. 29	4100	974	77	2116
Moore, Daniel M., assignor to Moore Electrical Company, New York, N. Y. Advertising electrical phosphorescent letters or signs	565,775	Aug. 11	1516	369	76	918
Moore, Daniel M., assignor to Moore Electrical Company, New York, N. Y. Phosphorescent electrical illumination by metallic coating upon glass	565,776	Aug. 11	1518	369	76	918
Moore, Daniel M., assignor to Moore Electrical Company, New York, N. Y. Phosphorescent electrical illumination by secondary currents	565,777	Aug. 11	1519	370	76	919
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Means for generating electric waves or oscillations	568,863	Oct. 6	259	60, 61	77	50
Moore, Edson C., Riverside, Iowa. Gate	568,785	Oct. 6	128	30	77	26
Moore, Edwin S., Pine Bluff, Ark. Lubricator	560,595	May 19	2270	{ 519 520 }	{ 75 75 }	{ 1168 1168 }
Moore Electrical Company. (See Moore, Daniel M., assignor.)						
Moore, Ethelbert A., New Britain, Conn. Stairs	569,464	Oct. 13	1274	300	77	257
Moore, Frank, assignor to G. Westinghouse, Jr., Pittsburg, Pa. Draw-gear and buffing apparatus	556,197	Mar. 10	1275	298	74	1385
Moore, Franklin D. (See Martindale and Moore.)						
Moore, Franklin D. (See Sheppey and Moore.)						
Moore, Frederic H., Boston, Mass. Safety-cover for coal-holes, &c.	556,894	Mar. 24	2527	595	74	1651
Moore, George N., and R. C. MacCulloch, assignors to A. T. Sanden, New York, N. Y. Electric belt	559,535	May 5	320	77	75	744
Moore, George C., Worcester, Mass. Endless tubular fabric	570,137	Oct. 27	2491	590	77	510
Moore, George W., Waco, Tex. Insufflator	566,212	Aug. 18	2288	560	76	1084
Moore, George W., Atlanta, Ga. Phonograph	558,116	Sept. 22	2441	586	76	1776
Moore, Harrey, Wellingborough, England. Sewing-machine	554,392	Feb. 11	1051	244	74	715
Moore, Harrey, Wellingborough, England. Shuttle-driving mechanism for sewing-machines	554,393	Feb. 11	1052	245	74	715
Moore, Henry D. (See Gildemeyer, Charles A., assignor.)						
Moore, Henry F., Chicago, Ill. Bicycle-wheel	568,035	Sept. 22	2220	552	76	1747
Moore, Ila M., Battle Creek, Mich. Steam-engine valve	561,682	June 9	1104	264	75	1603
Moore, Ira W., New York, N. Y., assignor of one-half to E. Simmons, Keyport, N. J. Permutation-lock	568,864	Oct. 6	262	61	77	51
Moore, Isaac W., Atlantic City, N. J. Pleasure-railway	552,692	Jan. 7	339	89, 90	74	66
Moore, James D., Atlantic, Iowa. Gravity-lock	557,595	Apr. 7	132	31, 32	75	24
Moore, James J., Farmersville, Ill., and D. Vaniman, McPherson, Kans. Fence	557,214	Mar. 31	3095	742	74	1779
Moore, James L., Stratford, Conn., assignor to W. A. Whitney, F. R. Brown, and Hendee & Nelson Manufacturing Company, Springfield, Mass. Handle for hardware, &c.	555,872	Mar. 3	651	156	74	1250
Moore, James L., Stratford, Conn., and F. R. Brown; said Moore assignor and said Brown assignor of one-third to W. A. Whitney and Hendee & Nelson Manufacturing Company, Springfield, Mass. Handle for hardware or analogous articles	555,873	Mar. 3	652	156	74	1250
Moore, Jane, Cambridge, Mass. Leather-dressing	572,439	Dec. 1	624		77	1397
Moore, Jesse B., et al. (See Wagner, Joseph L., assignor.)						
Moore, John, St. Louis, Mo. Drive-chain	559,807	May 12	820	192	75	852
Moore, John A. (See Rotz, John B., assignor.)						
Moore, John C. (See Barnard, Moore, and Atkinson.)						
Moore, John C., et al. (See Barnard, Frank J., assignor.)						
Moore, John G. (See Myers, William H., assignor.)						
Moore, John J., et al. (See Burton, George D., assignor.)						
Moore, John J., Lima, assignor to himself and A. A. Froman, Dell, Mont. Carpet-faster	568,264	Sept. 22	2690	644	76	1824
Moore, John V., assignor of one-half to W. Brown, London, England. Lamp	568,036	Sept. 22	2221	552	76	1747
Moore, John W., Lansingburg, N. Y. Valve-seat cleaner	556,895	Mar. 24	2528	595	74	1651
Moore, Joseph R., assignor to B. L. Kuykendall, Denver, Colo. Bicycle-bell	570,944	Nov. 10	954	221	77	845
Moore, Josiah H. (See Gross and Moore.)						
Moore, Josiah H., assignor to F. B. Tait, Decatur, Ill. Cultivator	558,456	Apr. 14	1672	402	75	333
Moore, La Fayette, Cordele, Ga. Drying-kiln	554,134	Feb. 4	619	140	74	618
Moore, Louis L., Calhoun, Ky., assignor of one-half to S. A. Allen, Evansville, Ind. Car-coupling	563,607	July 7	628	147	76	118
Moore, Martin. (See Claybourne and Moore.)						
Moore, Martin L., Forney, Tex. Cotton cleaner and feeder	553,125	Jan. 14	1163	{ 282 283 }	{ 74 74 }	{ 233 233 }
Moore, Melvin, and F. A. Holliday, Sciotoville, Ohio. Door-check	570,039	Oct. 27	2314	549	77	476
Moore, Morris W., Holyoke, Mass., assignor to himself, G. A. Phelps, and F. C. Brown, New York, N. Y. Fountain-pen	567,151	Sept. 8	746	174	76	1435
Moore, Morris W., Holyoke, Mass., assignor to himself, G. A. Phelps, and F. C. Brown, New York, N. Y. Fountain-pen	567,152	Sept. 8	748	174	76	1435
Moore, Moses M., Chicago, Ill. Lifting-jack	564,445	July 21	2117	495	76	420

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Moore, N. S., <i>et al.</i> (See Bury, Harry W., assignor.)						
Moore, Nicholas. (See Mink and Moore.)						
Moore, Stephen, Newton, Mass. Offertory-calendar.....	553,996	Feb. 4	357	78	74	570
Moore, Thomas. (See Kelly and Moore.)						
Moore, Thomas B., <i>et al.</i> (See Wright and Preston, assignors.)						
Moore, Valloo V., Baraboo, Wis. Car-coupling.....	574,340	Dec. 29	4102	974	77	2116
Moore, Walter E. (See King, Charles, assignor.)						
Moore, William, Kokomo, Ind. Gas or oil well tubing.....	554,076	Feb. 4	497	112	74	596
Moore, William A., Brooklyn, N. Y. Telephone-switch.....	556,763	Mar. 24	2305	542	74	1610
Moore, William A., Brooklyn, N. Y. Telephone-transmitter.....	563,395	July 7	267	60	76	54
Moore, William F., Plainfield, N. J. Puzzle.....	570,762	Nov. 3	633	145	77	754
Moore, William H. (See Chaffee and Moore.)						
Moore, William H. (See Hibshman, Henry E., assignor.)						
Moore, William J., New Westminster, Canada. Dredge-bucket for placer-mining.....	569,837	Oct. 20	1969	468	77	399
Moore, William N., Joliet, Ill. Heating-stove.....	562,014	June 16	1693	412	75	1735
Moorehead, William G. (See Canon and Moorehead.)						
Moorfield, Frank, Newport, Ky. Watchcase-pendant.....	553,760	Jan. 28	2274	538	74	469
Moorhead, George W., Milltown, N. J. Eraser.....	556,762	Mar. 24	2305	542	74	1610
Moorman, Charles T., Packwood, Iowa. Lifting-jack.....	569,585	Oct. 13	1511	356	77	301
Moors, George F., assignor of one-half to W. E. McFarland, Owensborough, Ky. Wagon-brake.....	570,138	Oct. 27	2493	591	77	510
Moradelli, Carl, Munich, Germany. Car-coupling.....	556,018	Mar. 10	933	222 223	74	1324
Moradelli, Carl, Munich, Germany. Car-coupling.....	558,409	Apr. 14	1577	385 386	75	314
Moran, Hanorah B., New York, N. Y. Lamp.....	572,122	Dec. 1	48	1?	77	1287
Moran, James. (See Johnson and Moran.)						
Moran, James T., Ashburn, Va., assignor of one-half to E. L. Pleasants. Drill-rod coupling.....	573,433	Dec. 15	2411	574	77	1771
Moran, John H., Licking, Mo. Whiffletree.....	553,126	Jan. 14	1165	283	74	233
Moran, Theron D. (See Wilson, Thomas, assignor.)						
Moran, William H., <i>et al.</i> (See Dutro, Oliver T., assignor.)						
Morano, Mike, and W. D. Gann, Talladega, Ala. Plow.....	557,596	Apr. 7	123	32	75	24
Morden, Laura H., executrix. (See Morden, William J.)						
Morden, William J., deceased, Chicago, Ill.; L. H. Morden, executrix. Generating power from moving trains.....	565,912	Aug. 18	1773	432	76	985
Morden, William J., deceased, Chicago, Ill.; L. H. Morden, executrix. Electric car-lighting.....	565,913	Aug. 18	1774	432 433	76	985
Mordey, William M., London, England. Dynamo-electric machine.....	555,963	Mar. 10	830	197	74	1305
Moreau, Eugene, and S. Mason, Philadelphia, Pa., assignors to G. A. Myers & Co., Baltimore, Md. Bunsen burner.....	569,139	Oct. 6	724	170	77	138
Morehead, King, Salisbury, Mo. Reel-carrier.....	568,916	Oct. 6	336	78	77	64
Morcin, Jules, Norfolk, Va. Awning-frame.....	570,877	Nov. 3	834	194	77	795
Morel, Achille, Brussels, Belgium. Apparatus for automatically clearing tramway or other lines.....	562,334	June 23	2745	666 667	75	1946
Moreland, Weldon C., Marysville, Mont. Self-lubricating bearing.....	567,489	Sept. 8	1331	321	76	1540
Moreton, George W., assignor to Betts Machine Company, Wilmington, Del. Boring and turning mill.....	569,344	Oct. 13	1088	258 259	77	224
Morey, Albert E., Covington, Ky., assignor to Euclid Manufacturing Company, Cincinnati, Ohio. Suspension-wheel.....	563,782	July 14	926	221	76	189
Morey, Edwin L., Portland, Ore. Register for telephones.....	561,601	June 9	967	231	75	1578
Morey, Thomas J., Nelson, N. Y. Apparatus for mowing hay.....	573,679	Dec. 22	2879	680	77	1878
Morgan, Benjamin B., assignor to Morgan Signal Company, Ypsilanti, Mich. Block-signal.....	572,267	Dec. 1	306	73, 74	77	1338
Morgan, Benjamin B., assignor to Morgan Signal Company, Ypsilanti, Mich. Railway signal apparatus.....	572,268	Dec. 1	312	74	77	1339
Morgan, Benjamin B., assignor to Morgan Signal Company, Ypsilanti, Mich. Railway-signal.....	572,269	Dec. 1	315	75	77	1339
Morgan, Benjamin B., assignor to Morgan Signal Company, Ypsilanti, Mich. Interlocking switch-signal.....	572,270	Dec. 1	317	75	77	1339
Morgan, Charles, assignor to Arcade Manufacturing Company, Freeport, Ill. Mop-head.....	553,354	Jan. 21	1579	376	74	323
Morgan, Charles, assignor to L. A. Morgan, Boston, Mass. Scaffold-bracket.....	565,293	Aug. 4	639	152	76	733
Morgan, Charles H., Worcester, Mass. Die-hammering machine.....	566,086	Aug. 18	2073	505 506	76	1043
Morgan, Charles H., assignor to Morgan Construction Company, Worcester, Mass. Wire-drawing machine.....	553,353	Jan. 21	1576	376	74	322
Morgan Construction Company. (See Edwards, Victor E., assignor.)						
Morgan Construction Company. (See Morgan, Charles H., assignor.)						
Morgan, Daniel F., Chicago, Ill. Glove.....	567,749	Sept. 15	1770	425	76	1639
Morgan, Doctor F., Philadelphia, Pa. Air-valve for steam or water heating apparatus.....	554,286	Feb. 11	875	201	74	682
Morgan, Doctor F., Chicago, Ill. Boiler for hot water or steam.....	568,167	Sept. 22	2527	608	76	1793
Morgan, E. D., <i>et al.</i> (See Maher, Oscar, assignor.)						
Morgan, Edward, Fresno, Cal. Fruit-tree-limb supporter.....	567,813	Sept. 15	1884	451	76	1661
Morgan, Elisha, Springfield, Mass. Holder for roll-paper.....	564,633	July 28	2450	576	76	499
Morgan Envelope Company. (See Hicks, Oliver H., assignor.)						
Morgan, Francis J. (See Evans and Morgan.)						
Morgan, Fred W., <i>et al.</i> (See Adams, Henry W., Jr., assignor.)						
Morgan, Fred W., <i>et al.</i> (See Faulkner, Hugh, assignor.)						
Morgan, Fred W., <i>et al.</i> (See Parker, John E., assignor.)						
Morgan, George F. (See Bell and Morgan.)						
Morgan, Henry P., assignor to Norwalk Iron Works Company, South Norwalk, Conn. Fluid-compressor.....	554,604	Feb. 11	1420	333	74	785
Morgan, Henry W., Rochester, N. Y. Grooving-machine.....	565,213	Aug. 4	489	116 117	76	707
Morgan, Henry W., Rochester, N. Y. Power-transmitting mechanism.....	568,917	Oct. 6	337	78, 79	77	65
Morgan, Henry W., assignor to Machinery Construction Company, Rochester, N. Y. Box-nailing machine.....	556,430	Mar. 17	1736	404	74	1487
Morgan, Irvin J. (See Morgan, Morris and I. J.)						
Morgan, John R., <i>et al.</i> (See Morgan, Thomas R., Jr., assignor.)						
Morgan, John R., <i>et al.</i> (See Morgan, William H., assignor.)						
Morgan, John T., <i>et al.</i> (See Taylor, James T., assignor.)						
Morgan, Lizzie A. (See Morgan, Charles, assignor.)						
Morgan, Morgan, Foxburg, Pa. Wire-stretcher.....	562,015	June 16	1695	412	75	1735
Morgan, Morgan, Foxburg, Pa. Gate-hinge.....	571,383	Nov. 17	1701	405	77	998
Morgan, Morris and I. J., Philadelphia, Pa. Music-indicator.....	561,805	June 9	1332	319	75	1647

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Morgan, Rachel A., Braddock, Pa. Lid for frying-pans, &c.	573,680	Dec. 22	2880	680	77	1878
Morgan Signal Company. (See Morgan, Benjamin B., assignor.)						
Morgan, Simon, assignor of one-half to W. C. Van Voorhies, Paterson, N. J. Jacquard machine and card-protector	556,316	Mar. 10	1516	353	74	1430
Morgan, Thomas R., Sr., et al. (See Morgan, William H., assignor.)						
Morgan, Thomas R., Sr., Alliance, Ohio. Transformer for hydraulic machines	565,014	Aug. 4	87	20	76	634
Morgan, Thomas R., Sr., Alliance, Ohio. Steam-hammer	565,015	Aug. 4	89	21	76	634
Morgan, Thomas R., Jr., assignor of three-fourths to T. R., Sr., W. H. and J. R. Morgan, Alliance, Ohio. Plant for annealing tin-plate	568,786	Oct. 6	129	30, 31	77	27
Morgan, Walter. (See Emery and Morgan.)						
Morgan, William F., et al. (See Taylor, James T., assignor.)						
Morgan, William H., et al. (See Morgan, Thomas R., Jr., assignor.)						
Morgan, William H., Alliance, Ohio. Commutator-brush	560,737	May 26	2569	591	75	1240
Morgan, William H., Alliance, Ohio. Overhead traveling crane	560,738	May 26	2570	591, 592	75	1240
Morgan, William H., Alliance, Ohio. Counterpoise disappearing gun-carriage	569,222	Oct. 13	871	205, 206	77	182
Morgan, William H., Alliance, Ohio. Disappearing counterpoise gun-carriage	569,223	Oct. 13	874	206, 207	77	182
Morgan, William H., Alliance, Ohio. Disappearing counterpoise gun-carriage	569,224	Oct. 13	876	207	77	183
Morgan, William H., Alliance, Ohio. Disappearing gun-carriage	569,225	Oct. 13	878	208, 209	77	183
Morgan, William H., assignor of three-fourths to T. R. Morgan, Sr. and Jr., and J. R. Morgan, Alliance, Ohio. Rheostat	553,538	Jan. 28	1890	446	74	398
Morgan, William H., assignor of three-fourths to T. R. Morgan, Sr. and Jr., and J. R. Morgan, Alliance, Ohio. Overhead traveling crane	560,736	May 26	2567	590, 591	75	1240
Morgan, William H., assignor of three-fourths to T. R. Morgan, Sr. and Jr., and J. R. Morgan, Alliance, Ohio. Clutch	562,478	June 23	2472	600	75	1895
Morgan, William H., assignor of three-fourths to T. R. Morgan, Sr. and Jr., and J. R. Morgan, Alliance, Ohio. Overhead traveling crane	564,708	July 28	2564	607	76	522
Morgan & Wright. (See Young, Ernest W., assignor.)						
Morgensthaler, Charles, Philadelphia, Pa. Artificial pumice-stone	561,683	June 9	1109		75	1605
Morgner, Carl G., Chicago, Ill. Bicycle-lock	563,396	July 7	269	60	76	54
Morhard, Joseph, assignor of one-half to C. W. Mott, San Francisco, Cal. Composition of matter for sewer or water pipes, &c.	568,318	Sept. 22	2779		76	1841
Morian, Carlos C., assignor of one-half to G. Fobes, Olean, N. Y. Coffee-percolator	561,515	June 2	802	196	75	1532
Moriarty, Michael, Jr., Fall River, assignor to G. Draper & Sons, Hopedale, Mass. Spindle and bearing	558,828	Apr. 21	2303	559	75	465
Morison, Donald B., Hartlepool, England. Propeller-shaft for marine engines	569,116	Oct. 6	678	159	77	129
Morison, William, Montclair, N. J., assignor to Eclipse Electric Lamp Company, Buffalo, N. Y. Battery	558,091	Apr. 14	1046	256	75	214
Moritz, Charles, assignor of two-thirds to H. J. Drane and P. Chant, London, England. Apparatus for making crimped, plaited, or corrugated articles of paper, metal, &c.	563,199	June 30	3779	905, 906	75	2165
Moritz, Christian G. (See Kerr, James M., assignor.)						
Moritz & Co., E. (See Steyer, Robert, assignor.)						
Morley Acetylene Gas Company. (See Morley, James H., assignor.)						
Morley, Albert, Chicago, Ill. Curling-iron	563,783	July 14	927	222	76	190
Morley, Albert, Chicago, Ill. Curling-iron	563,784	July 14	930	222	76	190
Morley, Albert, Chicago, Ill. Curling-iron	563,785	July 14	931	222	76	191
Morley, Alfred J., Chula Vista, Cal. Combined cultivator and weed-cutter	557,080	Mar. 24	2835	676	74	1712
Morley Button Sewing Machine Company. (See Bennett, Walter E., assignor.)						
Morley, J. D., et al. (See Johnson, Charles P., assignor.)						
Morley, James H., Springfield, Mass., assignor of one-third to Morley Acetylene Gas Company, Wheeling, W. Va. Acetylene-gas generator	563,980	July 14	1305	305	76	258
Morley, James H., Springfield, Mass., assignor of one-third to Morley Acetylene Gas Company, Wheeling, W. Va. Acetylene-gas generator	563,981	July 14	1308	305	76	258
Morley, William, Fontanell, Iowa. Band-cutter and feeder	573,898	Dec. 29	3254	775	77	1962
Morner, Gustaf O. F. (See Ohman, Lars G., assignor.)						
Morosco, Harry W. (See Andrews, Thomas H., assignor.)						
Morosco, Shields & Bishop Fusion Company. (See Shields, Andrew M., assignor.)						
Morrell, Albert W., assignor of one-half to J. O'Brien, St. Louis, Mo. Steam-boiler	559,741	May 5	649	157	75	805
Morrell, Alonzo M., New York, N. Y., assignor to Columbian Hose Nozzle Company, Des Moines, Iowa. Valve-stop	553,785	Jan. 28	2306	547	74	475
Morrell, Henry L., Brooklyn, N. Y., assignor to J. M. E. Morrill, Dorchester, Mass. Saw-filing machine	570,732	Nov. 3	578	133	77	745
Morrell, James A., Lansdale, Pa. Saw-set	564,634	July 28	2451	577	76	500
Morrill, Alvin T. (See Mills, Norman T., assignor.)						
Morrill, Bessie H., et al. (See Gregory, Joseph, assignor.)						
Morrill, Charles, New York, N. Y. Cutting-pliers	555,108	Feb. 25	2334	554	74	989
Morrill, Eben R., Truckee, Cal. Fruit-box	570,763	Nov. 3	635	146	77	754
Morrill, Frank E., San Francisco, Cal. Valve for siphon-bottles	565,173	Aug. 4	423	102	76	695
Morrill, John M. E. (See Morrell, Henry L., assignor.)						
Morrin, Thomas F., Jersey City, N. J. Furnace for steam-generators	566,924	Sept. 1	325	76	76	1344
Morrin, Thomas F., Jersey City, N. J., and J. Harlin, New York, N. Y. Gage-cock	580,520	May 19	2139	489	75	1144
Morris, Augustus, and J. A. Parker, Sydney, New South Wales. Preservative coating for foods	556,470	Mar. 17	1804		74	1500
Morris, Augustus, and J. A. Parker, Sydney, New South Wales. Preservative coating for foods	556,471	Mar. 17	1805		74	1500
Morris, Charles E., et al. (See Morris, James E., assignor.)						
Morris, Edmund, Michigan City, Ind. Chair-seat and fabric therefor	558,511	Apr. 21	1770	430	75	368
Morris, Emma, New York, N. Y. Brush	555,654	Mar. 3	299	70	74	1184
Morris, George C., assignor to Michigan Lubricator Company, Detroit, Mich. Feeder for incrustation preventives	564,212	July 21	1724	403, 404	76	350
Morris, George W. (See Wilson and Morris.)						
Morris, Henry B., Michigan City, Ind. Reinforced cane strip and apparatus for preparing it	558,827	Apr. 21	2301	559	75	465
Morris, Henry B., Michigan City, Ind. Weaving-needle	564,332	July 21	1926	454, 703	76	386
Morris, Henry B., assignor to Ford, Johnson & Co., Michigan City, Ind. Loom for weaving cane. (Reissue)	11,573	Nov. 24	3000	704, 705, 706	77	1257
Morris, Henry G., Hoboken, Pa. Ice-cream mold and disher	573,681	Dec. 22	2881	681	77	1878
Morris, James E., assignor of two-thirds to C. E. Morris and J. H. Denis, Chester, Pa. Electric-arc lamp	569,881	Oct. 20	2037	485	77	411

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Morrish, John, Mayville, N. D. Saw.....	566,865	Sept. 1	218	51	76	1324
Morris, John F. (See Reeves and Morris.)						
Morris, John F., Altoona, Pa. Game apparatus	555,220	Feb. 25	2521	595	74	1024
Morris, John P., Denman, Tex. Vehicle-axle	573,281	Dec. 15	2112	507	77	1717
Morris, John R. (See Dobkins, John A., assignor.)						
Morris, Paschall H. (See Parker, John, assignor.)						
Morris, Robert S. (See Cook, Stout, and Morris.)						
Morris, Thomas R., assignor of one-half to J. G. Davis, Billington, Tex. Attachment for cultivators.....	570,492	Nov. 3	104	25, 26	77	657
Morrison, Dudley R., McCune, Kans. Machine for sifting and sorting flour, meal, &c.....	555,461	Feb. 25	2964	{ 706 707 }	74	1107
Morrison, Emma. (See Morrison, William, assignor.)						
Morrison, Fred C., Chicago, Ill. Combined laundry-register and match-safe	554,712	Feb. 18	1611	380	74	838
Morrison, George E. (See Goodwin, John F., assignor.)						
Morrison, Gilbert W. (See Oakman and Morrison.)						
Morrison, Henry K., Concord, N. H., assignor to United Gas Improvement Company, Philadelphia, Pa. Fire-condition indicator for gas-generators.....	563,786	July 14	933	222	76	191
Morrison, James D., Reinbeck, assignor of two-thirds to J. W. Cook, Grundy, Iowa, and R. J. Goerner, St. Louis, Mo. Checkrein-hook.....	557,856	Apr. 7	591	140	75	111
Morrison, James F. (See Gripp and Morrison.)						
Morrison, James W. (See Porter, Joseph Y., assignor.)						
Morrison, John, assignor of one-half to A. W. Russel, Detroit, Mich. Brake for street-cars.	560,226	May 19	1628	370	75	1053
Morrison, John D. (See Oleson and Morrison.)						
Morrison, John G. (See Roney, John, assignor.)						
Morrison, John G. (See Scott, Frederic W., assignor.)						
Morrison, John G., Jersey City, N. J., assignor to W. M. Morrison, Brooklyn, N. Y. Water-closet.....	563,397	July 7	271	61	76	54
Morrison, Joseph C., assignor of one-half to J. K. Williams, Akron, Ohio. Boiler-tube expander.....	569,651	Oct. 20	1634	386	77	340
Morrison, Joshua H., Connersville, Ind. Folding bed.....	573,027	Dec. 15	1646	{ 395 396 174 175 176 }	77	1631
Morrison, Llewellyn A., and J. Larsen, Toronto, Canada; said Larsen assignor to said } Morrison. Machine for manufacturing veneers.....	567,153	Sept. 8	749	{ 174 175 176 }	76	1435
Morrison, Singleton M. (See Sauvage, William H., assignor.)						
Morrison, Thomas, Williamsport, Pa. Shuttle for looms.....	569,721	Oct. 20	1779	423	77	365
Morrison, Wilhelmine M. (See Morrison, John G., assignor.)						
Morrison, Willard A., and C. L. Ames, assignors to Ames & Frost Company, Chicago, Ill. Adjustable mirror.....	553,355	Jan. 21	1580	377	74	323
Morrison, William, Philadelphia, Pa. Retainer and stop for umbrellas or parasols.....	572,765	Dec. 8	1200	290	77	1525
Morrison, William, assignor to E. Morrison, Lansingburg, N. Y. Brush-machine.....	570,604	Nov. 3	316	78	77	769
Morrison, William G. (See Hatfield, William H., assignor.)						
Morrison, William T. S., Cornish, Me. Bicycle ice-creeper.....	560,859	May 26	2797	642	75	1284
Morriss, Simon J., et al. (See Barton, James, assignor.)						
Morrission, Albert C., San Francisco, Cal. Street-railway-car advertising device.....	559,104	Apr. 28	2790	676	75	577
Morrow, Albert A., Loreauville, La. Tripping attachment for cane-lifts.....	555,462	Feb. 25	2968	707	74	1107
Morrow, Albert H. (See Hanna and Morrow.)						
Morrow, Allan T., Hamilton, Canada. Oil-filter.....	572,814	Dec. 8	1284	309	77	1541
Morrow, James B., and F. C. Robertson, Oxford, Md. Car-fender.....	552,852	Jan. 7	655	160	74	123
Morrow, John T., Great Falls, Mont. Plating apparatus.....	569,722	Oct. 20	1780	423	77	365
Morrow, William I., Pine Grove, Tex. Wire-stretcher.....	572,349	Dec. 1	456	107	77	1365
Morse, Alfred B., Easton, Mass. Winding-machine.....	572,309	Dec. 1	395	94, 95	77	1354
Morse, Ancil B., Baraboo, Wis. Windmill.....	554,786	Feb. 18	1740	408	74	862
Morse, Frank W., St. Joseph, Mo. Refrigerator shipping-case.....	556,198	Mar. 10	1279	299	74	1385
Morse, Frederic A., Pawtucket, R. I. Automatic liquid-indicator.....	559,061	Apr. 28	2713	660	75	560
Morse, George N. (See Gardiner, Harry K., assignor.)						
Morse, Henry T., assignor to Morse Rotary Engine Company, Boston, Mass. Rotary engine.	562,843	June 30	3127	{ 757 758 }	75	2036
Morse, John H., Kansas City, Kans., and W. R. Parsons, Chicago, Ill.; said Parsons assignor to said Morse. Turning implement.....	556,019	Mar. 10	935	223	74	1324
Morse, Joshua W. (See Jacoby, Josiah, assignor.)						
Morse, Monroe, Medway, Mass. Fertilizer-distributor.....	557,010	Mar. 24	2736	{ 648 649 156 157 }	74	1691
Morse, Orson A. (See Henderson and Morse.)						
Morse, Orville M., Jackson, Mich. Separator.....	555,874	Mar. 3	654	157	74	1250
Morse, Oscar E., Dillon, Mont. Rotary engine.....	552,854	Jan. 7	657	161	74	124
Morse, Oscar E., and E. H. Brundage, Dillon, Mont. Combination-tool.....	552,853	Jan. 7	656	161	74	124
Morse Rotary Engine Company. (See Morse, Henry T., assignor.)						
Morse, Thomas G., Erie, Pa. Electric signaling apparatus.....	559,397	May 5	87	18, 19	75	697
Morse, William F., Utica, N. Y., assignor to Standard Railway Gate Company, of Maine } Automatic railway-gate.....	558,092	Apr. 14	1051	{ 257 258 }	75	215
Morss, Stephen B., Rahway, N. J., assignor of one-fourth to C. C. Mickle, New York, N. Y. Lamp-wick.....	555,257	Feb. 25	2589	607	74	1036
Morss, Stephen B., Rahway, N. J., assignor to Solar Manufacturing Company, of New Jersey. Lamp-burner.....	569,795	Oct. 20	1907	453	77	387
Mortenson, Andrew, Brooklyn, N. Y. Safety-envelop.....	555,613	Mar. 3	218	51	74	1170
Morton, Albert H., assignor to Kitson Machine Company, Lowell, Mass. Conveyer for treating cotton staple or other fiber.....	572,492	Dec. 1	703	168	77	1412
Morton, Edwin W. (See Thompson and Morton.)						
Morton, Ephraim S., Brockton, Mass. Last-block fastener.....	553,655	Jan. 28	2099	496	74	435
Morton, Ephraim S., Plymouth, Mass. Sash-fastener.....	560,320	May 19	1800	410	75	1083
Morton, Eugene J., assignor of one-half to W. I. Poole, Harrisburg, Pa. Combination toilet-rack.....	562,334	June 16	2228	542	75	1834
Morton, Galloupe, New Brighton, N. Y. Device for withdrawing books from bookcases	562,905	June 30	3241	783	75	2059
Morton, George E. (See Willets, Abner A., assignor.)						
Morton, Horace J., Chicago, Ill. Lumber-drier.....	572,210	Dec. 1	204	50	77	1317
Morton, Robert, and R. Pringle, London, England; said Morton assignor to said Pringle. Gas-stove.....	557,857	Apr. 7	592	141	75	112
Morton, William, Kirkdale, and J. Marshall, Formby, England. Cycle-pedal.....	560,913	May 26	2896	664	75	1302
Morton, William A., Leavenworth, assignor of one-half to Bryson Brothers, Overbrook, Kans. Stock-car partition.....	567,544	Sept. 8	1411	339	76	1554
Morton, William M., New Haven, Conn. Spirit-level and plumb.....	573,682	Dec. 22	2882	681	77	1878
Mortson, George, Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Flexible-tired wheel.....	553,252	Jan. 21	1389	339	74	289

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Moseley, Thomas J., Salem, Mo. Weather-strip	573,683	Dec. 22	2884	681	77	1878
Moser, Benjamin, Brooklyn, N. Y., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock	563,867	July 14	1096	258	76	221
Moser, Frank R., St. Louis, Mo. Automatic scale-register	557,858	Apr. 7	594	141	75	112
Moses, Alfred H., St. Louis, Mo. Regenerative gas-burner	554,946	Feb. 18	2016	477	74	914
Moses, H. O. (See Wilder, Elihu, assignor.)						
Moses, Hampton H., assignor to L. G. Fiken, Chicago, Ill. Puzzle	565,555	Aug. 11	1118	270	76	843
Moses, Harvey C. (See Weldon, Oliver L., assignor.)						
Moses, William S., Tracy, Minn. Reed-organ	574,040	Dec. 29	3522	841	77	2010
Mosher, Charles D., New York, N. Y. Tube-expander	559,189	Apr. 28	2978	719	75	611
Mosher, Charles P., Groton, assignor of one-half to J. S. Kirkendall, Ithaca, N. Y. Eye-shade	569,117	Oct. 6	680	159	77	130
Mosher, Charles P., and N. R. Streeter, Groton, N. Y. Floor-mirror	574,254	Dec. 29	3956	940	77	2088
Mosher, John A., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Electric arc lamp	573,830	Dec. 22	3133	746	77	1925
Mosher, John A., and W. S. Bartholomew, Chicago, Ill. Electric arc lamp	565,861	Aug. 11	1674	411	76	948
Moskowitz, Morris, Newark, N. J., assignor to National Electric Car Lighting Company, of West Virginia. Means for generating electricity from car-wheel axles	564,333	July 21	1927	455	76	326
Moskowitz, Morris, Newark, N. J., assignor to National Electric Car Lighting Company, of West Virginia. Means for generating electricity from car-wheels	564,334	July 21	1929	455	76	386
Moskowitz, Morris, Newark, N. J., assignor to National Electric Car Lighting Company, of West Virginia. Means for generating electricity from car-wheel axles	564,335	July 21	1931	456	76	387
Moskowitz, Morris, Newark, N. J., assignor to National Electric Car Lighting Company, of West Virginia. Means for generating electricity from car-wheel axles	564,336	July 21	1933	456	76	387
Moskowitz, Morris, Newark, N. J., assignor to National Electric Car Lighting Company, of West Virginia. Means for generating electricity from car-wheel axles	571,951	Nov. 24	2707	640 641	77	1205
Moskowitz, Morris, Newark, N. J., assignor to National Electric Car Lighting Company, of West Virginia. Electric switch	571,952	Nov. 24	2712	641	77	1206
Mosley, Aaron, assignor to Hopewell & Son, Nottingham, England. Combined nut and lock-nut	559,782	May 5	746	179	75	823
Mosley, John H., St. Louis, Mo. Propulsion of vessels	571,127	Nov. 10	1287	298 299	77	906
Moss, Berkley N. (See Jackson and Moss.)						
Moss, Edmund S. (See Josier, Angelo, assignor.)						
Moss, John, Fall River, Mass. Car-coupling	557,215	Mar. 31	3096	742	74	1779
Moss, John O., Delba, Tex. Sliding gate	560,860	May 26	2798	642 643	75	1284
Moss, Thomas F., Hudson, Wis. Fumigating apparatus	571,784	Nov. 24	2403	574	77	1147
Mossberg, Frank, Attleborough, Mass. Roller-bearing	555,655	Mar. 3	300	71	74	1184
Mossberg, Frank, Attleborough, Mass. Roller-bearing	560,521	May 19	2141	489	75	1144
Mostkowitz, Herman, Brooklyn, N. Y. Bicycle riding-habit	569,027	Oct. 6	535	123	77	101
Mote, Jeremiah W., Wilbur, Oreg. Evaporator	552,667	Jan. 7	288	78	74	56
Motelet, Nicholas, Avoca, Wis. Refrigerator	558,410	Apr. 14	1579	386	75	315
Motheral, Samuel A., Cincinnati, Ohio. Vehicle-wheel	569,118	Oct. 6	681	159	77	130
Motie, Frank P., et al. (See Norton, James A., assignor.)						
Motor Cycle Company. (See Pennington, Edward J., assignor.)						
Mott, Charles S., Patchogue, N. Y. Friction-clutch	565,016	Aug. 4	91	21	76	634
Mott, Charles W. (See Morhard, Joseph, assignor.)						
Mott, Henry, Detroit, Mich. Machine for sanding paper boxes	555,389	Feb. 25	2821	664	74	1080
Mott, Jordan L., Jr., assignor to J. L. Mott Iron Works, New York, N. Y. Valve for closet-cisterns	571,168	Nov. 10	1343	313	77	917
Mott, Kennon. (See Matthews and Mott.)						
Mott, Theodore, Rochester, Minn. Paint	555,221	Feb. 25	2523		74	1024
Motter, Franklin G. (See Goutner and Motter.)						
Motter, Jacob V., Cincinnati, Ohio. Injector	557,081	Mar. 24	2837	676	74	1713
Mottram, William K., Ottawa, Kans. Thill-support	558,093	Apr. 14	1054	258	75	216
Motznik, Rudolf, Cleveland, Ohio. Saw-tooth	557,414	Mar. 31	3451	827	74	1847
Mouck, Solomon F., Denver, Col. Water-elevator	552,855	Jan. 7	660	161	74	124
Moudy, John E., Berkeley Springs, W. Va. Table attachment for chairs	569,508	Oct. 13	1363	320	77	273
Moulart, Adrien J., Paris, France. Door-handle with electric alarm	560,043	May 12	1279	247	75	938
Moulart, Adrien J., Paris, France. Lock with electric safety attachment	569,882	Oct. 20	2038	425	77	411
Moulton, Charles W. H., Cambridge, Mass. Extension-ladder	556,830	Mar. 24	2417	568	74	1631
Moulton, Charles W. H., Cambridge, Mass. Extension-ladder	556,831	Mar. 24	2417	568	74	1631
Moulton, Truman T., Neenah, Wis. Trestle	552,964	Jan. 14	886	215	74	120
Mount Pleasant Road Grader Company. (See Holland, James M., assignor.)						
Mount, Voorhees F., Homer, Mich. Fence	556,832	Mar. 24	2418	568	74	1631
Moussette, Oliver J., Brooklyn, N. Y. Non-refillable bottle	571,234	Nov. 10	1453	341	77	936
Mowat, Oliver M., Pittsburg, Pa. Pulley-block	572,766	Dec. 8	1201	290	77	1525
Mower, Edwin F., assignor to F. W. Whitchee, Boston, Mass. Fair-stitch sewing-machine	556,100	Mar. 10	1091	260	74	1351
Mower, Edwin F., assignor to F. W. Whitchee, Boston, Mass. Sewing-machine	556,101	Mar. 10	1094	260	74	1352
Mower, Edwin F., assignor to F. W. Whitchee, Boston, Mass. Sewing-machine	562,335	June 16	2229	542	75	1834
Mower, Edwin F., assignor to F. W. Whitchee, Boston, Mass. Sewing-machine	563,871	July 14	1103	260	76	222
Mower, Edwin F., assignor to F. W. Whitchee, Boston, Mass. Sole-edge finishing and ornamenting machine	567,251	Sept. 8	895	214	76	1462
Mower, Edwin F., assignor to F. W. Whitchee, Boston, Mass. Tool for pricking and marking lines of stitches	570,139	Oct. 27	2495	591	77	511
Mowers, John H. (See Bennett and Mowers.)						
Mowery, Robert, assignor of one-fourth to J. H. Kilgore, Hot Springs, Ark. Tellurian	571,785	Nov. 24	2406	574	77	1148
Mowrer, James, Casper, Wyo. Device for holding tools while being ground or sharpened	553,010	Jan. 14	957	232	74	193
Mowrer, James, Casper, Wyo. Clamp	555,614	Mar. 3	219	51	74	1170
Mowrer, James, Casper, Wyo. Winding-indicator for clocks	572,440	Dec. 1	625	148	77	1397
Moxham, Arthur J., Lorain, Ohio. Railway-switch work	556,896	Mar. 24	2529	596	74	1652
Moxham, Arthur J., Johnstown, Pa. Tunnel	558,094	Apr. 14	1057	258 259	75	217
Moxley, Richard J., assignor to Empire Type Setting Machine Company, New York, N. Y. Type-distributing machine	567,252	Sept. 8	898	215 216 217	76	1462
Moyer, Daniel, Allentown, Pa. Sand-box	561,018	May 26	3060	705	75	1333
Moyer, Erwin W. (See Wyker, Arthur, assignor.)						
Moyer, Harvey A. (See Lipe, Charles E., assignor.)						
Moyer, Herman, Fort Worth, Tex. Combined inkstand and pen-rack	563,787	July 14	935	223	76	192
Moyer, Jesse H., Temple, Tex. Piano-action	573,474	Dec. 22	2496	591	77	1805
Moyer, Jonas S., Hatfield, Pa. Wire-fence stay	566,601	Aug. 25	2975	726	76	1230
Moyer, Moses, Toronto, Canada. Device for holding horses	559,861	May 12	939	209	75	873

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Moyer, Nathaniel, Mahanoy City, Pa. Beer-bung	561,336	June 2	488	123	75	1464
Moyer, O. A., <i>et al.</i> (See Norton, John S., assignor.)						
Moyes, Alexander H., Ogden, Utah Automatic fluid-pressure brake	563,673	July 7	739	174	76	139
Moyes, Alexander H., assignor to Ogden Train-Jack and Manufacturing Company, Ogden, Utah. Screw-jack	563,608	July 7	631	147	76	118
Moyes, Alexander H., assignor to Ogden Train-Jack and Manufacturing Company, Ogden, Utah. Screw-jack	573,684	Dec. 22	2884	681	77	1879
Moyer, Bernhard, Allentown, Pa. Culinary appliance	557,313	Mar. 31	3273	785	74	1811
Mozing, Lewis W., Westport, Mo. Wire-and-picket-fence machine	574,103	Dec. 29	3636	869	77	2032
Muchmore, Elmer, Cincinnati, Ohio. Swinging and sliding door	552,879	Jan. 7	720	175	74	135
Muck, Perry A. (See Crumley and Muck.)						
Muckenhirn, Charles H., assignor to J. S. Tyler, Detroit, and F. P. Boughton, Battle Creek, Mich. Water-closet	559,304	Apr. 28	3190	771	75	650
Mucklé & Co., M. R., Jr. (See Mucklé and Teamer, assignors.)						
Mucklé, John S., and W. H. B. Teamer, assignors to M. R. Mucklé, Jr., & Co., Philadelphia, Pa. Elevator	555,825	Mar. 3	561	{ 134 135 }	{ 74 }	1232
Muehleisen, Carl. (See Mergenthaler and Muehleisen.)						
Muehleisen, Carl, Baltimore, Md., assignor to Mergenthaler Linotype Company, of New Jersey. Linotype-machine	563,868	July 14	1098	258	76	221
Mueller, Charles G. S. (See Bender and Mueller.)						
Mueller, Frank, Reedsburg, Wis. Valve to be carried upon bicycles	553,786	Jan. 28	2307	547	74	475
Mueller, Franz, Spokane, Wash. Music-chart	569,509	Oct. 13	1364	320	77	273
Mueller, Frederick A., Indianapolis, Ind. Shaft or axle bearing	570,040	Oct. 27	2315	549	77	476
Mueller, George A., Cincinnati, Ohio, assignor to G. Wiedeman, Jr., Newport, Ky. Apparatus for removing foil from bottles	553,997	Feb. 4	358	79	74	571
Mueller, Henry, Jr., St. Louis, Mo. Street-sweeper	563,869	July 14	1099	{ 258 259 }	{ 76 }	221
Mueller, Henry, Jr., St. Louis, Mo. Street-sweeper	563,870	July 14	1101	{ 259 260 }	{ 76 }	222
Mueller, Henry F., New Orleans, La. Cistern-cleaner	558,656	Apr. 21	2009	486	75	412
Mueller, John, assignor of one-half to E. B. Warren, Hot Springs, S. D. Combined cane and music-stand	553,867	Feb. 4	94	20	74	523
Mueller, Oscar. (See Theurer and Mueller.)						
Mueller, Theophilus R., and R. J. Preuss, Milwaukee, Wis. Mattress-frame	561,684	June 9	1110	265	75	1605
Muenchinger, Paul G., Newport, R. I. Envelop	570,557	Nov. 3	235	59	77	681
Mühlinghaus, Carl, Lennep, and R. Thomalla, Hückeswagen, Germany. Knit fabric	568,694	Sept. 29	3470	830	76	1985
Muir, James, Providence, R. I. Expansion-pulley	558,196	Apr. 14	1215	296	75	247
Muir, John, Hunter, N. D. Wagon-body	565,294	Aug. 4	640	152	76	734
Muir, John S., Stockton, Cal. Therapeutic electrode	568,095	Sept. 22	2405	579	76	1770
Muir, Robert, Brooklyn, N. Y. Attachment for car-fenders	554,525	Feb. 11	1283	301	74	759
Muir, William, Michigan Bluff, Cal. Ejector for mining and dredging	573,611	Dec. 22	2726	648	77	1849
Muirhead, John, Pittston, Pa. Bit	562,479	June 23	2474	600	75	1895
Mulder, Albert, assignor to J. Mulder, Muskegon, Mich. Washing-machine	558,697	Apr. 21	2086	504	75	426
Mulder, Jane. (See Mulder, Albert, assignor.)						
Muldoon, John F., <i>et al.</i> (See Whitchee and Fitz Gibbons, assignors.)						
Mulford, Clarence C., St. Louis, Mo. Heating apparatus	554,713	Feb. 18	1613	{ 380 381 }	{ 74 }	839
Mulhern, Patrick, Chicago, Ill. Window-cleaner	554,077	Feb. 4	501	113	74	597
Mulkey, James A., <i>et al.</i> (See Slight, Emsley L., assignor.) *						
Mullarky, Michael C., Montreal, Canada. Sewing-machine	569,652	Oct. 20	1635	386	77	340
Mullen, C. A. (See Wilson, James, assignor.)						
Mullen, Charles R. (See Hilton, John W., assignor.)						
Mullen, Gregory M., Baltimore, Md. Pulley-block	566,213	Aug. 18	2229	560	76	1084
Mullen, Harker, Sycamore, Ill. Oscillating steam-engine	559,591	May 5	406	98	75	762
Mullen, Joseph A., New York, N. Y. Device for checking horses	562,016	June 16	1696	412	75	1735
Mullen, Michael, <i>et al.</i> (See Welch, Rosia W., assignor.)						
Müller, Carl H., Solingen, Germany. Corkscrew-knife	573,475	Dec. 22	2498	592	77	1805
Müller, Ernst J., Butte, Mont. Piston-rod and cross-head connection	553,656	Mar. 3	301	71	74	1184
Müller, Ernst J., Butte, Mont. Latch-lever	570,674	Nov. 3	477	112	77	727
Müller, Frederick J., Scranton, Pa. Self-opening umbrella	559,144	Apr. 28	2905	702	75	597
Müller, Friedrich, Frankfurt-on-the-Main, Germany. File for letters or the like	558,657	Apr. 21	2011	486	75	412
Müller, Gottfried, Herisau, Switzerland. Embroidering-machine	563,200	June 30	3782	{ 906 907 }	{ 75 }	2166
Müller, Gustave, assignor to Patent Shoe Pull Company, Bridgeport, Conn. Shoe-pull	571,276	Nov. 10	1525	361	77	950
Müller-Jacobs, Armand, assignor to W. F. Weiss, New York, N. Y. Manufacturing tantate of zirconium	558,197	Apr. 14	1216		75	247
Müller-Jacobs, Armand, assignor to S. Sultan and W. F. Weiss, New York, N. Y. Making artificial musk	559,783	May 5	746		75	823
Müller, Karl, Eberswalde, Germany. Watchman's time-recorder	564,709	July 28	2566	607	76	532
Muller, Peter, Table Rock, Nebr. Hoist and dump for grain or coal	562,844	June 30	3133	758	75	2037
Müller, Teile H., Philadelphia, Pa., and H. R. Winkelmann, Brooklyn, N. Y. Coupling for steam pipes	559,945	May 12	1095	{ 243 244 }	{ 75 }	901
Müller, Wilhelm, Frankfurt-on-the-Main, assignor of one-half to H. Steinhäuser, Offenbach-on-the-Main, Germany. Composition for waterproofing felt	571,384	Nov. 17	1702		77	998
Mulligan, John, National Military Home, Ohio. Cooking-boiler	567,490	Sept. 8	1333	322	76	1540
Mulligan, John J., Vicksburg, Miss. Car-door	554,078	Feb. 4	503	113	74	597
Mullin, Clarence, and F. C. Galloway, Cincinnati, Ohio. Hand-brake	571,676	Nov. 17	2193	528	77	1088
Mullin, William, Pittsburg, Pa. Railway-switch lock	559,592	May 5	408	98, 99	75	762
Mullins, John W., London, Ky. Magazine-firearm	571,840	Nov. 24	2503	593	77	1165
Mullins, Melvin M., Monticello, Miss. Plow	554,947	Feb. 18	2017	477	74	914
Mullins, William H., Salem, Ohio. Dish-cleaner	554,135	Feb. 4	621	140	74	618
Mullins, William H., Salem, Ohio. Boat	563,674	July 7	740	174	76	139
Mullins, William H., Salem, Ohio. Baking-pan	563,675	July 7	741	174	76	139
Mulowny, Alexander R., <i>et al.</i> (See Link, John A., assignor.)						
Mulready, Michael F., London, England. Furnace-grate	555,788	Mar. 3	493	119	74	1219
Mulready, Michael F., London, England. Furnace-grate	555,826	Mar. 3	562	135	74	1233
Multi-Color Printing Company. (See Hart, Sidney J., assignor.)						
Mumbrauer, Edmund. (See Mumbrauer, Wilhelm and E.)						
Mumbrauer, Wilhelm and E., New York, N. Y. Billiard-table	560,739	May 26	2571	592	75	1240
Mumford, Joseph A., Hantsport, Canada. Steam-boiler	558,698	Apr. 21	2088	504	75	426
Mumford, Joseph F., Camden, N. J. Brush-machine	570,261	Oct. 27	2722	648	77	554
Mummary, Edwin G., Detroit, Mich. Hydrocarbon-burner	563,788	July 14	936	223	76	192
Mummary, Edwin G., assignor of eleven-twentieths to J. Hutton and G. C. Keays, Detroit, Mich. Hydrocarbon-burner	563,398	July 7	273	61	76	55

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Mummery, Edwin G., assignor of three-twentieths to W. G. Hastie and N. S. Wright, Detroit, Mich. Hydrocarbon-generator	568,956	Oct. 6	409	92	77	78
Münch, August, Charlottenburg, Germany. Apparatus for registering the number of telephonic conversations	566,334	Aug. 25	2489	610	76	1139
Munch, Walter, St. Paul, Minn. Cutter-head	567,545	Sept. 8	1412	339	76	1555
Munday, George T., Brenham, Tex. Feed-water heater	566,602	Aug. 25	2975	726	76	1231
Mundell, James. (See Mills, Francis A., assignor.)						
Munden, Joseph, Bradenville, assignor of two-thirds to W. R. Christian, Pittsburg, and S. A. Wently, West Elizabeth, Pa. Change-speed gearing for bicycles	559,784	May 5	747	180	75	823
Mundt, Paul, Broadwell, Ill. Valve-gear for engines	573,100	Dec. 15	1782	429	77	1657
Munger, Ennis, Calvert, Tex. Fence-stay	564,570	July 21	2333	547	76	459
Munger, Ernest A. (See Clark and Munger.)						
Munger, Robert S., Birmingham, Ala. Seed-conveyer for cotton-gins	555,789	Mar. 3	494	120	74	1219
Munich, Anton, Kankakee, Ill. Desk	554,452	Feb. 11	1168	272	74	737
Munn, Frank E., New York, N. Y. Opener for envelops or wrappers for newspapers or the like	562,336	June 16	2231	542	75	1835
Munoz, Adolfo C., Philadelphia, Pa. Floor construction	572,123	Dec. 1	50	12, 13	77	1287
Munro, Alexander F., Boston, and G. O. Hitchings, Saugus, Mass., assignors to the M. & H. Manufacturing Company, of Maine. Pneumatic tire	566,603	Aug. 25	2977	727	76	1231
Munro, Andrew A., Flushing, N. Y. Cycle	572,941	Dec. 8	1496	358	77	1585
Munro, Charles W. S. (See Engle, Robert H., assignor.)						
Munro, David M., Gaithersburg, Md. Switchboard	560,275	May 19	1721	{ 390 391 }	75	1070
Munro, John E., Carlisle, Pa. Combination can-opener	573,991	Dec. 29	3441	823	77	1995
Munro, William, Brooklyn, assignor to City Metal Works, New York, N. Y. Fastening device	573,685	Dec. 22	2886	682	77	1879
Munroe, Robert and R. Jr., Allegheny, Pa. Sectional water-tube boiler	565,017	Aug. 4	92	21, 22	76	635
Munroe, William, New York, N. Y. Upright-piano action	570,041	Oct. 27	2316	550	77	477
Munson, Albert L., assignor to E. Moonells, New York, N. Y. Automatic weighing and feeding apparatus	566,925	Sept. 1	326	76, 77	76	1345
Munson, Alvin J., Indianapolis, Ind. Ornamental indicator for weather-vanes	563,938	July 14	1233	287	76	244
Munson, Andrew M., assignor of one-fourth to N. G. Munson, Rockford, Ill. Starching-machine	566,604	Aug. 25	2978	727	76	1231
Munson, Edward A., Grand Rapids, Mich. Proportional weighing apparatus	557,140	Mar. 31	2944	705	74	1756
Munson, Frank, assignor of three-fourths to W. P. and C. W. Hatch and F. J. Millar, Buchanan, Mich. Heating-stove	567,546	Sept. 8	1414	340	76	1555
Munson, John B., Scranton, Pa. Combined baby-jumper and chair	561,908	June 9	1507	{ 364 365 }	75	1679
Munson, John H., assignor of two-thirds to W. F. Roberts and J. E. Merritt, Chicago, Ill. Electric-railway conduit	559,105	Apr. 28	2792	{ 676 677 }	75	577
Munson, John W. (See Hoff and Munson.)						
Munson, Morton L., Detroit, Mich. Curtain-ring	572,441	Dec. 1	626	148	77	1397
Munson, Nels G. (See Munson, Andrew M., assignor.)						
Munson, Walstein E., New Haven, Conn. Educational appliance	563,872	July 14	1107	261	76	222
Murchison, Roderick, assignor to Peters Pump Company, Kewanee, Ill. Drilling attachment for corn-planters	574,208	Dec. 29	3875	923	77	2073
Murdoch, William H., Youngstown, Ohio. Picture-matting cutter	571,677	Nov. 17	2195	528	77	1088
Murdock, Albert, Union Grove, Wis. Cattle-stanchion	564,213	July 21	1725	404	76	350
Murdock, Edwin H., Cincinnati, Ohio. Canceling-punch	571,881	Nov. 24	2579	610	77	1179
Murdock, Frank. (See Stratton and Murdock.)						
Murdock, James, Jr., Cincinnati, Ohio. Tailpiece for musical instruments	558,699	Apr. 21	2090	505	75	426
Murdock, John M., assignor of one-half to G. W. Arper, Oakland, Cal. Adjustable curtain-hanger	562,017	June 16	1697	413	75	1735
Murdock, Thomas J., assignor of one-half to J. Roney, Woonsocket, R. I. Bobbin-holder and thread-catcher. (Reissue)	11,574	Nov. 24	3017	706	77	1260
Murdock, Winslow J., Cincinnati, Ohio. Violin-bow	558,700	Apr. 21	2091	505	75	426
Murgatroyd, Frank, Cleveland, Ohio. Steam-engine	553,419	Jan. 21	1679	400	74	342
Murgatroyd, John, New York, N. Y. Sunshade for bicycles	553,735	Jan. 28	2235	529	74	461
Murphy, William L., San Francisco, Cal., assignor to California Wrench Company, of California. Wrench	560,298	May 19	1760	401	75	1076
Murphy, Bernard T., Marengo, Iowa. End-gate for wagons	571,277	Nov. 10	1536	361	77	950
Murphy, Daniel F. (See Rabbitt, James H., assignor.)						
Murphy, Edward, New York, N. Y. Sewing-machine	554,626	Feb. 11	1472	{ 344 345 }	74	794
Murphy, Edward M., Pontiac, Mich. Fifth-wheel	558,294	Apr. 14	1323	337	75	279
Murphy, James, Chicago, Ill. Gas producer and burner for steam-boilers	573,899	Dec. 29	3256	776	77	1962
Murphy, James, assignor to Eagle Lock Company, Terryville, Conn. Padlock	555,728	Mar. 3	413	95	74	1204
Murphy, James J., Philadelphia, Pa. Composition of matter for making and sealing joints between pipes, &c.	560,321	May 19	1801	410	75	1083
Murphy, John, Covington, Ky. Extensible carriage-seat	567,491	Sept. 8	1334	322	76	1541
Murphy, John E., assignor of one-half to M. R. Gardner, North Manchester, Ind. Penholder	567,789	Sept. 15	1830	439	76	1650
Murphy, John G., assignor, by mesne assignments, to M. L. Murphy, Middletown, Conn. Process of and apparatus for extracting gold from its ores	559,593	May 5	409	99	75	762
Murphy, John H., New York, N. Y. Manifold cash-sales book	572,022	Nov. 24	2820	666	77	1225
Murphy, John J. (See Sterry and Murphy.)						
Murphy, John M., assignor of one-half to A. F. Pierce, Danbury, Conn. Portable Turkish bath	554,527	Feb. 11	1286	301	74	759
Murphy, John M., assignor of one-half to A. F. Pierce, Danbury, Conn. Deflector-plate for gas-stoves	554,528	Feb. 11	1287	302	74	760
Murphy, John M., assignor of one-half to A. F. Pierce, Danbury, Conn. Portable heater	554,529	Feb. 11	1289	302	74	760
Murphy, John M., and A. F. Pierce, Danbury, Conn., assignors to International Electrical Company, of West Virginia. Electric-railway system	566,786	Sept. 1	85	21, 22	76	1296
Murphy, John T., Haverhill, Mass. Spring-cradle	555,258	Feb. 25	2590	608	74	1037
Murphy, Louise D., Memphis, Tenn. Fastener for bottles, jugs, &c.	565,629	Aug. 11	1251	301	76	867
Murphy, Mary L. (See Murphy, John G., assignor.)						
Murphy, Michael J., Indianapolis, Ind. Hog-grapple	554,714	Feb. 18	1615	381	74	839
Murphy, Michael L., Coraopolis, Pa. Glass-tank furnace	555,964	Mar. 10	831	{ 197 198 }	74	1305
Murphy, Peter, Jersey City, N. J. Making adhesives	568,265	Sept. 22	2691		76	1824
Murphy, Peter H. (See Lamkey, Frank L., assignor.)						
Murphy, Peter H., East St. Louis, Ill. Car-roof	554,287	Feb. 11	877	202	74	682
Murphy, Peter H., East St. Louis, Ill. Car-roof	554,288	Feb. 11	878	{ 202 203 }	74	683
Murphy, Robert J., assignor of one-third to W. J. Doyle, Skaneateles, N. Y. Puzzle	564,022	July 14	1375	320	76	271
Murphy, Thomas, San Francisco, Cal. Fire-engine harness	552,668	Jan. 7	290	78, 79	74	56
Murphy, Thomas F., New York, N. Y. Window-fastener	559,808	May 12	821	193	75	852

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Murphy, Thomas L., New York, N. Y., assignor to Columbian Hose Nozzle Company, Des Moines, Iowa. Convertible spray and jet nozzle.....	555,062	Feb. 18	2244	536	74	954
Murphy, Thomas P., New Orleans, La. Car-wheel.....	554,526	Feb. 11	1285	301	74	759
Murphy, Thomas P., assignor of five-sixths to J. W. Barkdull, N. D. McDonald, E. H. Bright, F. Emmett, and S. S. Jones, New Orleans, La. Car-wheel.....	564,214	July 21	1727	404	76	351
Murphy, Thomas P., assignor of five-sixths to J. W. Barkdull, N. D. McDonald, E. H. Bright, S. S. Jones, and F. Emmett, New Orleans, La. Method of and composition for filling hollow noiseless car-wheels, &c., with non-resonant material.....	564,215	July 21	1729	.....	76	351
Murphy, Timothy W., Washington, D. C. Nut and bolt lock.....	563,201	June 30	3785	907	75	2166
Murphy, William, assignor to National Cash Register Company, Dayton, Ohio. Cash-register.....	571,953	Nov. 24	2713	{ 641 642 }	{ 77 77 }	{ 1206 1206 }
Murphy, William T., New York, N. Y. Panel decoration for pottery.....	565,778	Aug. 11	1521	370	76	919
Murray, Charles C., Northborough, Mass. Bicycle.....	565,556	Aug. 11	1119	270	76	843
Murray, Charles J. (See Gregson and Murray.)						
Murray, Edward A., Punxsutawney, Pa. Glove-cabinet.....	565,779	Aug. 11	1522	370	76	919
Murray, Edwin S., and H. R. Cole, assignors to O. Brown and C. N. Grant, Haverhill, Mass. Clutch for toboggan-cars.....	561,169	June 2	168	43	75	1399
Murray, Frank C., Boston, assignor of two-thirds to W. H. Pulsifer, Natick, and W. H. Bingham, Waltham, Mass. Sand-box for street-cars.....	552,922	Jan. 14	814	198	74	166
Murray, Frank L. (See Kenna, Michael P., assignor.)						
Murray Iron Works Company. (See Roberts, Charles H., assignor.)						
Murray, John. (See Fredrickson and Murray.)						
Murray, Richard, assignor of one-half to W. D. Davis, U. S. Army. Saddle-pack cover.....	557,011	Mar. 24	2739	649	74	1691
Murray, Stephen D., Dallas, Tex. Cotton-elevator and gin-feeder.....	560,914	May 26	2898	664	75	1302
Murray, Thomas J., Grub Gulch, Cal. Miner implement.....	565,497	Aug. 11	1029	247	76	826
Murray, Thomas P., Salt Lake City, Utah. Burglar-alarm.....	561,019	May 26	3061	705	75	1333
Murray, William, Laurel Hill, assignor of two-thirds to J. A. Johnston, Brooklyn, and J. Kellow, Jr., Jamaica, N. Y. Bottle.....	560,522	May 19	2141	490	75	1144
Murray, William J. (See Cofran and Murray.)						
Muselmann, Henry. (See Goschel and Sutter, assignors.)						
Muselmann, Henry, assignor to Dillingham Manufacturing Company, Sheboygan, Wis. Cheese-safe.....	565,557	Aug. 11	1121	271	76	843
Musgrave, Elijah C., Des Moines, Iowa. Staple-puller.....	561,337	June 2	489	123	75	1464
Musgrave, Joshua, and W. Cook, Aguilar, Colo. Pipe-wrench.....	567,492	Sept. 8	1335	322	76	1541
Musgrave, Mark, Philadelphia, Pa. Wool-washing machine.....	554,289	Feb. 11	880	203	74	683
Musgrave, Mark, Philadelphia, Pa., assignor of one-half to J. F. Blair, Camden, N. J. Expansion-pulley.....	563,399	July 7	276	61, 62	76	55
Musgrove, Charles M., Pittsfield, Mass. Quarter-saver for circular-knitting machines.....	553,011	Jan. 14	958	232	74	193
Muslar, Nelson, West Boylston, assignor to H. F. Harris, Worcester, Mass. Electric trolley.....	553,927	Feb. 4	235	51	74	549
Musselman, Peter, assignor of three-fourths to L. Rosenzweig and B. J. Frank, Chicago, Ill. Apparatus for boiling meats.....	560,506	May 19	2273	520	75	1168
Musselman, Weidler B., Lancaster, Pa. Hitching-post.....	560,299	May 19	1762	401	75	1076
Musson, Frederick W. (See Cummings and Musson.)						
Musson, Frederick W., Chicago, Ill. Mechanical lead-pencil.....	574,359	Dec. 29	4130	981	77	2121
Musson, Frederick W., Chicago, Ill. Mechanical lead-pencil.....	574,360	Dec. 29	4131	981	77	2121
Musson, Frederick W., Chicago, Ill. Lead-pencil.....	574,361	Dec. 29	4132	981	77	2121
Musson, Frederick W., Chicago, Ill. Pencil.....	574,362	Dec. 29	4133	982	77	2122
Musson, Frederick W., Chicago, Ill. Pencil.....	574,363	Dec. 29	4134	982	77	2122
Mustain, Bailey J. (See Mustain, Shadrach A., assignor.)						
Mustain, Shadrach A., Rincon, N. Mex. Ter. Means for transportation.....	567,861	Sept. 15	1961	470	76	1676
Mustain, Shadrach A., assignor to B. J. Mustain, Rincon, N. Mex. Ter. Switch for electric railways.....	573,344	Dec. 15	2226	533	77	1737
Muth, John. (See Seam and Muth.)						
Muther, Lorenz, Oak Park, assignor to Union Special Sewing Machine Company, Chicago, Ill. Loop-retainer for sewing-machines.....	556,715	Mar. 17	2199	514	74	1573
Muther, Lorenz, Oak Park, assignor to Union Special Sewing Machine Company, Chicago, Ill. Folding-guide for sewing-machines.....	559,785	May 5	749	180	75	823
Muther, Lorenz, Oak Park, assignor to Union Special Sewing Machine Company, Chicago, Ill. Sewing-machine.....	559,786	May 5	750	180	75	824
Mutschler, Albert, et al. (See Wolf, Joseph, assignor.)						
Myer, C. S., et al. (See Lee, William, assignor.)						
Myers, Abraham A., assignor to M. G. Myers, Lancaster, Pa. Tanning machinery.....	571,678	Nov. 17	2196	529	77	1088
Myers, Alexander. (See Carpenter, Augustus J., assignor.)						
Myers, Angelo, Philadelphia, Pa. Manufacturing fermented and distilled liquors.....	553,998	Feb. 4	359	.....	74	571
Myers, Arthur M., et al. (See Galbraith, David R. S., assignor.)						
Myers, Charles H., Leroy, Ill. Land-marker for planters.....	557,859	Apr. 7	595	141	75	112
Myers & Co., George A. (See Moreau and Mason, assignors.)						
Myers, David, North Manchester, Ind. Feed-water heater.....	554,715	Feb. 18	1616	381	74	840
Myers, David P., Salem, Ill. Heating attachment.....	561,020	May 26	3062	705	75	1334
Myers, Frederick, New York, N. Y. Sprocket-chain.....	571,978	Nov. 24	2756	650	77	1214
Myers, Garrett. (See Carey and Reid, assignors.)						
Myers, George F., assignor to American Mining Machine Company, Pittsburg, Pa. Mining machine.....	564,758	July 28	2666	634	76	539
Myers, Harry M., assignor of one-half to J. T. Myers, Newark, N. J. Milk-sterilizer.....	555,657	Mar. 3	303	71	74	1184
Myers, Herbert D., Bowdle, S. D. Band-cutter and feeder.....	571,008	Nov. 10	1059	247	77	864
Myers, Hiram R. and S. E., and L. D. Carl, Lake, Ohio. Marsh-horseshoe.....	554,787	Feb. 18	1741	408	74	862
Myers, Jacob. (See Shaw, William B., assignor.)						
Myers, James T. (See Myers, Harry M., assignor.)						
Myers, John V., Industry, Ill. Thill-coupling.....	566,605	Aug. 25	2979	727	76	1231
Myers, Luther, Maumee, Ohio. Fuel feeder and distributor.....	567,190	Sept. 8	801	189	76	1446
Myers, Margaret G. (See Myers, Abraham A., assignor.)						
Myers, Martin J. (See Rehfsus, Martin O., assignor.)						
Myers, Oliver P., San Francisco, Cal. Dental-mouth-mirror support.....	552,693	Jan. 7	341	90	74	67
Myers, Philip A., Ashland, Ohio. Sling for hay-carriers.....	554,136	Feb. 4	632	140	74	618
Myers, Samuel E. (See Myers and Carl.)						
Myers, Stanley L., Santa Rosa, Cal. Bicycle-saddle.....	569,796	Oct. 20	1908	453	77	387
Myers, Theodore W. (See Johnson, Charles A., assignor.)						
Myers, William, Ruby Valley, Nev. Brake-shoe.....	567,992	Sept. 22	2190	527	76	1731
Myers, William H., Brooklyn, assignor to J. G. Moore, New York, N. Y. Saw-sharpener.....	570,225	Oct. 27	2652	629	77	541
Myers, William R., Haddonfield, N. J. Fire-bucket.....	558,295	Apr. 14	1384	338	75	279
Myhre, Chris, assignor to one-half to J. P. Becker, St. Louis, Mo. Permutation-padlock.....	557,012	Mar. 24	2740	649	74	1691
Myhrcaine, George A., Rochester, N. Y. Bicycle-tire scraper.....	564,831	July 28	2781	661	76	559
Myrick, Eugene C., Providence, R. I. Electric distribution system.....	555,326	Feb. 25	2717	637	74	1061
Myrick, Eugene C., Providence, R. I. Nipple for nursing-bottles.....	556,859	Mar. 24	2458	579	74	1640
Myrick, Eugene C., and G. C. Doeg, Providence, R. I. Stop-motion for steam-engines.....	561,170	June 2	169	43, 44	75	1399

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Myrick, Eugene C., and G. C. Doeg, Providence, R. I. Stop-motion for engines	561,171	June 2	176	44, 45	75	1400
N. K. Fairbank Company. (See Dunn, Robert P., assignor.)						
N. O. Nelson Manufacturing Company. (See Reid, William A., assignor.)						
Nablo, Ephraim R., Fort Wayne, Ind. Glove-holder	573,232	Dec. 15	2020	485	77	1700
Nachmias, Raphael M., San Francisco, Cal. Game apparatus	563,507	July 7	465	109	76	89
Nack, Hermann, Berlin, Germany. Machine for cutting cloth	558,831	Apr. 21	2307	560	75	466
Nadig, Henry and P., Allentown, Pa. Single-acting steam-engine	573,030	Dec. 15	1650	397	77	1632
Nadig, Philip. (See Nadig, Henry and P.)						
Nading, Tunis, St. Louis Crossing, Ind. Bolt-cutter	556,275	Mar. 10	1446	338	74	1416
Nadler, Henry, and B. C. Le Blanc, Plaquemine, La. Sling-trip	571,074	Nov. 10	1176	276	77	885
Nadon, François X., River Desert, Canada. Centrifugal separator	566,466	Aug. 25	2779	{ 675 676 }	{ 76 76 }	1192
Naef, Louis R., assignor of one-half to C. S. Putnam, Conneaut, Ohio. Photographic back-ground	567,495	Sept. 8	1339	323	76	1542
Naef, Louis R., assignor of one-half to C. S. Putnam, Conneaut, Ohio. Photographic vignetter	567,496	Sept. 8	1341	{ 323 324 }	{ 76 76 }	1542
Naegele, E. F. (See Winston, Charley, assignor.)						
Nageborn, Wilhelm. (See Carlyle and Nageborn.)						
Nageborn, Wilhelm E., assignor to National Smoke Preventer Company, Detroit, Mich. Automatic draft-regulating mechanism	564,935	July 28	2965	706	76	593
Nagel, William F., Philadelphia, Pa. Device for securing bedclothes on beds	568,986	Oct. 6	474	107	77	91
Nalder, John F., Flushing, N. Y. Non-refillable bottle	572,060	Nov. 24	2895	683	77	1239
Nalley, John T., assignor of one-half to U. L. Logan, Morgan, Tex. Snap-hook	552,695	Jan. 7	344	91	74	67
Nance, William, Grass Valley, Cal. Mining-pump	554,082	Feb. 4	511	115	74	598
Naregang, John J., Leesport, Pa. Bicycle	570,327	Oct. 27	2882	684	77	582
Narragansett Knitting Company. (See Wilcomb, Frank, assignor.)						
Nasch, Isidor, London, England. Machine for sewing books	558,832	Apr. 21	2308	{ 561 562 }	{ 75 75 }	466
Nash, Alice C., assignor of one-half to F. L. Darrow, Minneapolis, Minn. Bicycle-suit	570,676	Nov. 3	480	113	77	728
Nash, Clarence W., Union Bridge, Md. Lubricator	566,609	Aug. 25	2984	728	76	1232
Nash, Duane H., Millington, N. J. Bridle-bit	568,097	Sept. 22	2409	580	76	1771
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Water-meter	561,060	May 26	3129	722	75	1346
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Water-meter	562,144	June 16	1917	{ 465 466 }	{ 75 75 }	1775
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Disk water-meter	562,145	June 16	1920	466	75	1775
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Water-meter	562,146	June 16	1921	467	75	1776
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Water-meter	562,147	June 16	1922	467	75	1776
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Water-meter	562,148	June 16	1923	467	75	1776
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Igniter for gas-engines	563,051	June 30	3499	840	75	2112
Nash, Paul, assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Trans-som-lifter	567,193	Sept. 8	805	190	76	1446
Nash, Samuel, Georgetown, assignor to himself, and E. L. Foster, Denver, Colo. Miner's candlestick	561,428	June 2	655	160	75	1494
Nash, Walter S., Knoxville, Tenn. Electric lock	567,156	Sept. 8	756	177	76	1437
Nash, William, Gypsum, Kans. Pump	564,447	July 21	2122	496	76	421
Nash, William H., Philadelphia, Pa. Ventilator and chimney-cowl	561,236	June 2	276	69	75	1421
Nason, Charles L., New York, N. Y. Illuminated sign	569,764	Oct. 20	1854	439	77	377
Nason, Edwin J., Washington, Kans. Feed-trough	571,280	Nov. 10	1530	362	77	951
Nason, Horace F., assignor of two-thirds to J. Q. A. and C. Whittemore, Natick, Mass. Sewing-machine	567,000	Sept. 1	472	{ 109 110 }	{ 76 76 }	1371
Nason, Joseph H., Somerville, assignor of one-half to H. M. Howes, Boston, Mass. Tension device for shuttles	560,741	May 26	2574	593	75	1241
Nathan, Henry J. (See Stiebel, Henry G., Jr., assignor.)						
Nathan, Leopold, Rottweil, Germany. Vessel for storing and transporting liquors containing gas under pressure	569,028	Oct. 6	536	123	77	102
National Air-Brake Company. (See Lee, George S., assignor.)						
National Autographic Register Company. (See De Leon, Carlos, assignor.)						
National Burial Company of Baltimore City. (See McCauley, Reuben A., assignor.)						
National Cash Register Company. (See Barnard, Fayette, assignor.)						
National Cash Register Company. (See Carney, Thomas, assignor.)						
National Cash Register Company. (See Ehrlich, Leo, assignor.)						
National Cash Register Company. (See Murphy, William, assignor.)						
National Company. (See Brown and Thorpe, assignors.)						
National Company. (See Smith, Rudolph C., assignor.)						
National Company. (See Thorpe and Brown, assignors.)						
National Company. (See Venn, Isaac H., assignor.)						
National Cutlery Company. (See Roberts, Charles E., assignor.)						
National Electric Car Lighting Company. (See Moskowitz, Morris, assignor.)						
National Electric Heating Company. (See Appleyard, Arthur E., assignor.)						
National Ferrotyping Machine Company. (See Powers, James, assignor.)						
National Harrow Company. (See Hensch and Dromgold, assignors.)						
National Harrow Company. (See Smith, De Wane B., assignor.)						
National Heat and Power Company. (See Rose, James M., assignor.)						
National Key-Opening Can Company. (See Zimmerman, John, assignor.)						
National Machine Company. (See Hogan, James T., assignor.)						
National Machine Company. (See Phelps, Herbert L., assignor.)						
National Malleable Castings Company. (See Buckius, Albert O., assignor.)						
National Malleable Castings Company. (See Case, William, assignor.)						
National Malleable Castings Company. (See Willison, John, assignor.)						
National Metal Edge Box Company. (See Tenler, Josef, assignor.)						
National Meter Company. (See Nash, Lewis H., assignor.)						
National Opalite Glazed Brick and Tile Syndicate. (See Shelmerdine, Anthony, assignor.)						
National Safe and Lock Company. (See Mead, Charles H., assignor.)						
National Type Writer Company. (See Unz, Henry H., assignor.)						
National Typographic Company. (See Scudder, Wilbur S., assignor.)						
National Waste Utilization Company. (See Richardson, Winfield S., assignor.)						
National Wrought Steel Manufacturing Company. (See Graves, John, assignor.)						
Nau, Jules, Champigny-sur-Marne, France. Separable table for surgical operations	558,297	Apr. 14	1385	338	75	279

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Naughton, Michael, Philadelphia, Pa. Hoop setting or driving machine.....	566,006	Aug. 18	1952	473	76	1021
Naugle, David. (See Card, Benjamin F., assignor.)						
Naulty, Thomas. (See McBride, Naulty, and Wiegand.)						
Naumann, Emil, Alten Essen, Germany. Horse-detacher.....	570,606	Nov. 3	319	79	77	697
Navarro, José F. de, New York, N. Y. Apparatus for treating hydraulic-cement stone.....	560,742	May 26	2575	593	75	1241
Naville, Aloys A., P. A. and C. E. Guye, Geneva, Switzerland. Electrical gas-reaction apparatus.....	569,122	Oct. 6	691	161	77	132
Naylor, Ernest W., Bound Brook, N. J. Piston-valve.....	552,582	Jan. 7	134	37	74	27
Naylor, James B., et al. (See Henery, Alvanes G., assignor.)						
Naylor, John W. (See Barr and Naylor.)						
Naylor, John W., et al. (See Barr, John H., assignor.)						
Neagle, Pickens, Washington, D. C. Car-axle.....	565,863	Aug. 11	1677	411	76	949
Neal, George P., Evansville, Ind. Blacking-brush.....	558,412	Apr. 14	1583	387	75	315
Neal, George P., assignor of one-half to J. P. Thurston, Evansville, Ind. Curtain-pole bracket.....	569,563	Oct. 13	1460	344	77	292
Neal, James, et al. (See Gage, Seth H., assignor.)						
Neal, James H., Boston, assignor to F. E. Huntress, Somerville, Mass. Headlight for electric cars.....	573,283	Dec. 15	2113	508	77	1717
Neal, Lemuel C., Lewiston, Idaho. Clothes-line pin.....	554,137	Feb. 4	623	141	74	618
Neal, Lemuel C., Lewiston, Idaho. Bicycle-tire.....	573,907	Dec. 29	3266	780	77	1965
Neal, Thomas, Detroit, Mich. Paint-agitator.....	558,738	Apr. 21	2152	518 519	75	438
Neale, David, Fort Calhoun, Nebr. Shore or bank protector and method of and apparatus for constructing and placing same.....	570,946	Nov. 10	957	223	77	845
Neale, Francis M., et al. (See Blascow, David H., assignor.)						
Neale, James, Brooklyn, N. Y. Nipper or tension device for spinning-machines.....	566,007	Aug. 18	1954	473	76	1022
Neale, William B. B., London, England. Apparatus for aerial dancing.....	567,352	Sept. 8	1114	268	76	1500
Neall, Samuel W., Philadelphia, Pa. Car-fender.....	558,833	Apr. 21	2310	562	75	467
Neary, Hugh C., Groton, N. Y. Flux.....	562,735	June 23	2920		75	1979
Nease, Frederick H., assignor of one-half to F. Brown, Bellevue, Idaho. Hoisting and pumping apparatus.....	561,723	June 9	1191	283	75	1620
Neeb, William H., Detroit, Mich. Stove-truck.....	558,561	Apr. 21	1838	447	75	381
Neeland, Marvin A. (See Rothhoff and Neeland.)						
Neely, Harry J. (See Wilson and Neely.)						
Neely, Herbert G., South Salem, Ohio. Cornet.....	571,011	Nov. 10	1067	249	77	865
Neely, Ira L., St. Mary's, Ohio. Spudding-shoe.....	555,110	Feb. 25	2335	555	74	989
Neely, Samuel M., Smith's Turn-Out, S. C. Animal-trap.....	560,597	May 19	2274	521	75	1168
Neely, W. B. (See Lewis, Harry J., assignor.)						
Neer, Harry M., assignor of one-half to O. S. Kelly, Springfield, Ohio. Electric motor for street-cars.....	555,392	Feb. 25	2825	664 665	74	1081
Neer, James M. (See Jackson, Charles S., assignor.)						
Neeses, George A., et al. (See Felthousen, Barrent W., assignor.)						
Neeses, William B., et al. (See Felthousen, Barrent W., assignor.)						
Neff, Elijah, Milford, Ind. Pump for domestic water systems.....	571,680	Nov. 17	2199	530	77	1039
Neff, Jacob L., Chicago, Ill. Surface-guard.....	561,024	May 26	3069	707	75	1335
Neffen, Pauline W., New York, N. Y. Dress-shield fastener.....	561,125	June 2	83	22	75	1383
Negbauer, Walter L., Brookline, and J. J. Feely, Walpole, Mass. Mechanical and electrical development and storage of wind-power.....	554,138	Feb. 4	624	141	74	619
Negus, Horatio V. S. (See Gardner, Perry G., assignor.)						
Neher, Clarence R., Rochester, N. Y. Railway-spike.....	557,692	Apr. 7	297	71	75	56
Nehr, Herman F., Shelton, Conn., assignor to L. Haas, New York, N. Y. Combined advertising device and cigar-cutter.....	563,875	July 14	1110	261 262	76	223
Neider, Fred A., Augusta, Ky. Hook for toe-pads.....	562,907	June 30	3245	764	75	2060
Neighbours, Charles C., assignor of one-half to J. W. Reed, Fort Smith, Ark. Cotton-picker.....	572,611	Dec. 8	924	223 224	77	1473
Neil, Michael, Dayton, Ohio. Support for wire fences.....	562,088	June 16	1830	445	75	1758
Neil, Michael, assignor of one-half to J. A. McClure, Dayton, Ohio. Straining-post for wire fences.....	566,408	Aug. 25	2643	645	76	1168
Neil, Michael, assignor of one-half to J. A. McClure, Dayton, Ohio. Fence.....	566,792	Sept. 1	95	23	76	1298
Neilan, James P., New London, Conn. Alarm device for folding-machines.....	569,723	Oct. 20	1781	423	77	365
Neild, Edwin, assignor of one-half to A. Winslow and H. Hein, Laredo, Tex. Bicycle-wheel.....	574,105	Dec. 29	3639	869	77	2032
Neill, James W., Salt Lake City, Utah. Apparatus for compressing and agglomerating roasted ores or other materials.....	570,947	Nov. 10	959	222	77	846
Neill, John. (See Boyle, James C., assignor.)						
Neill, Jonathan R. (See Clark and Neill.)						
Neill's, Frank, Davenport, Iowa. Machine-gun.....	562,846	June 30	3135	759	75	2038
Nellis, Charles E., assignor to himself and W. D. Chapin, Wakefield, and H. E. Ogg, Brooklyn, N. Y. Belt-fastener.....	562,149	June 16	1924	468	75	1776
Nelsen, Nels K., Rockland, Idaho. Nursery-chair.....	572,271	Dec. 1	318	76	77	1340
Nelson, Alfred, deceased; P. Nelson, administratrix, assignor to R. Emerson, W. A. Talcott, E. C. W., O. F., and J. F. Nelson, Rockford, Ill., W. Ziock, St. Louis, Mo., and A. N. Reck, Chicago, Ill. Knitting-machine.....	562,553	June 23	2584	627 628 629 630	75	1916
Nelson, August, New York, N. Y. Billiard-cue locking device and rack.....	559,193	Apr. 23	2991	722	75	615
Nelson, Edward M., London, England. Thawing frozen food.....	558,298	Apr. 14	1387	339	75	280
Nelson, Elihu, New York, N. Y. Car-signal.....	555,391	Feb. 25	2824	664	74	1021
Nelson, Eva C., et al. (See Nelson, Alfred, assignor.)						
Nelson, Frithiof, et al. (See Nelson, Alfred, assignor.)						
Nelson, George E., Dillon, Mont. Machine for turning swaths.....	557,417	Mar. 31	3460	829	74	1848
Nelson, Gust N., et al. (See Hokanson and Dolphin, assignors.)						
Nelson, John. (See Anderson and Nelson.)						
Nelson, John A., Nebraska City, Nebr. Pipe-joint.....	567,862	Sept. 15	1964	471	76	1677
Nelson, John F., et al. (See Nelson, Alfred, assignor.)						
Nelson, John L., Omaha, Nebr. Drink-mixer.....	562,018	June 16	1699	413	75	1736
Nelson, Louis, Reno, Minn. Seat for agricultural machines, &c.....	560,228	May 19	1631	371	75	1054
Nelson, Martin S. (See Gibbs and Nelson.)						
Nelson, Nels, assignor of one-half to P. A. Aronsson, Attleborough, Mass. Lathe tool-holder.....	567,685	Sept. 15	1661	400	76	1618
Nelson, Nels H., St. John's, Minn. Draft-equalizer.....	566,008	Aug. 18	1956	474	76	1022
Nelson, Nels M., Chicago, Ill. Potato-planter.....	557,865	Apr. 7	605	144	75	114
Nelson, Oscar, et al. (See Nelson, Alfred, assignor.)						
Nelson, Per F., Chicago, Ill. Dividing-machine for caked articles.....	554,830	Feb. 18	1815	425	74	878
Nelson, Percy C., Ouray, Colo. Violin-bow.....	564,448	July 21	2123	496	76	422

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Nelson, Piedad, administratrix. (See Nelson, Alfred.)						
Nelson, Searick F. (See Schimmel and Nelson.)						
Nelson, William, <i>et al.</i> (See Nelson, Alfred, assignor.)						
Neptune Meter Company. (See Thomson, John, assignor.)						
Neracher, Charles, deceased, Cleveland, Ohio; O. J. Frey, administrator. Sprinkler	571,012	Nov. 10	1068	249	77	865
Nerney, Peter, <i>et al.</i> (See Stone, Samuel N., assignor.)						
Nerrefter, Leonard, Standish, Mich. Means for protecting foundation-timbers from rot. .	559,194	Apr. 28	2993	722	75	615
Nerrlich, Richard, Berlin, assignor to C. P. Goerz, Schöneberg, Germany. Photographic shutter	564,216	July 21	1729	405	76	351
Nerud, Charles, Elroy, Wis. Handled clamp for holding plowshares	564,097	July 14	1519	355	76	239
Nesbit, John, Newark, N. J. Flying toy bird	559,536	May 5	321	77	75	745
Nesbitt, Charles J., Jr., New York, N. Y. Puzzle	563,792	July 14	948	225	76	194
Nesmith, John W., assignor to Colorado Iron Works, Denver, Colo. Method of and apparatus for heating blasts for smelting-furnaces	555,731	Mar. 3	418	96	74	1205
Nesmith, John W., assignor, by mesne assignments, to Colorado Iron Works Company, Denver, Colo. Ore-concentrator	558,978	Apr. 28	2572	625	75	534
Nesmith, Joseph A. (See Copeland and Nesmith.)						
Nesom, Thomas, Indianapolis, Ind. Hammock	558,834	Apr. 21	2311	563	75	467
Nesom, Thomas, assignor to T. L. Bosart, Indianapolis, Ind. Fifth-wheel for vehicles	554,345	Feb. 11	979	227	74	701
Nesom, Thomas, and W. D. Eckenrode, Indianapolis, Ind. Embossing-machine	568,268	Sept. 22	2694	645	76	1824
Nessel, Louis F., Chicago, Ill. Bed-slat fastener	557,997	Apr. 7	861	217	75	162
Nesser, Theodor, Columbus, Ohio. Locomotive fire-box and boiler	566,467	Aug. 25	2781	676	76	1193
Nester, Daniel N. (See Kenney, Frank E., assignor.)						
Nester, Daniel N., assignor of one-half to A. M. Vallee, St. Paul, Minn. Pneumatic stacker.	570,182	Oct. 27	2574	612	77	526
Nettel, Adolf. (See Engelhardt and Nettel.)						
Nettlebeck, Hermann, Buffalo, N. Y. Earth-excavating apparatus	556,513	Mar. 17	1893	440 441	74	1516
Netto, Max, Almazarron, Spain. Precipitating precious metals from their alkali cyanid solutions	573,233	Dec. 15	2020		77	1700
Netzer, Peter J. (See Lutteke, Peter, assignor.)						
Neubert, Crisdoif F., Chicago, Ill. Slot-machine	567,666	Sept. 15	1661	400	76	1618
Neubert, Franklin G., Waterbury, Conn. Ink-receptacle	565,917	Aug. 18	1780	434	76	986
Neubert, Fridrick W., Pittsburg, Pa. Artificial limb	556,201	Mar. 10	1282	300	74	1386
Neuberth, George E., and H. Ill, Newark, N. J., said Neuberth assignor to said Ill. Caster.	556,020	Mar. 10	937	223	74	1324
Neudecker, Leonard H., Baltimore, Md. Combined tobacco-tag and badge	554,893	Feb. 18	1932	455	74	899
Neudecker, Leonard H., Baltimore, Md. Combined tobacco-tag and badge	557,866	Apr. 7	607	144	75	114
Neuens, Michael W., assignor of one-half to R. Stelling, Port Washington, Wis. Window.	570,948	Nov. 10	961	222 223	77	846
Neuens, Michael W., assignor of one-half to R. Stelling, Port Washington, Wis. Chair. .	571,536	Nov. 17	1939	469	77	1046
Neugroschl, Israel. (See Neugroschl and Walters.)						
Neugroschl, Samuel J., and I., and C. Walters, New York, N. Y. Letter-clasp	554,370	Feb. 11	1017	236	74	708
Neuhard, Charles J., Shady Point, Ind. Ter. Moistening device	567,353	Sept. 8	1116	268	76	1500
Neumann, George R. and H. H., New York, N. Y. Ale-pump	564,834	July 28	2784	662	75	559
Neumann, Hermann H. (See Neumann, George R. and H. H.)						
Neumann, John, Baltimore, Md. Dumping-wagon	559,398	May 5	90	19	75	698
Neumann, Josef, assignor of one-half to H. Jannoch, Boston, Mass. Garment-holder	556,686	Mar. 17	2156	504	74	1565
Neumann, Sigmund, Buda-Pesth, Austria-Hungary. Fluorescent soap	564,835	July 28	2785		76	560
Neumeister, John, Minneapolis, Minn. Pearl-button machinery	558,458	Apr. 14	1675	403	75	334
Nevagold, Frederick, assignor of one-eighth to J. S. McClain, Columbia, Pa. Apparatus for consuming waste gases	554,293	Feb. 11	889	204	74	684
Nevers, Ann E. (See Whiting, Winslow L., assignor.)						
Nevill, Francis A. (See Gilliland and Nevill.)						
Nevill, William B., assignor of one-half to E. W. Hardin and F. Eckert, Rockwall, Tex. Bolt and nut-lock	553,311	Jan. 21	1501	360	74	309
Nevins, Thomas F., Brooklyn, N. Y. Electric-circuit connector	553,014	Jan. 14	963	233	74	194
New Britain Machine Company. (See Loetscher, Christian, assignor.)						
New Century Motor Company. (See Rinehart and Turner, assignors.)						
New Columbus Watch Company. (See Leukart and Owen, assignors.)						
New Departure Bell Company. (See Hunn, Albert B., assignor.)						
New Departure Bell Company. (See Rockwell, Albert F., assignor.)						
New England Butt Company. (See McCahey, John, assignor.)						
New England Electric Supply Company. (See Emmett, George, assignor.)						
New England Electro Tonic Company. (See Peirce, John N., assignor.)						
New England Sulphite Digester Company. (See Talbot, Reginald S., assignor.)						
New England Water Pipe Company. (See Calahart, Philip A., assignor.)						
New Era Iron Works Company. (See Johnston, Lawrence M., assignor.)						
New Haven Car Register Company. (See Boyd and Gierding, assignors.)						
New Haven Clock Company. (See Galpin, Samuel A., assignor.)						
New Haven Clock Company. (See Porter, Wilson E., assignor.)						
New Haven Display Fixture Co. (See Snow, Levi T., assignor.)						
New Haven Heating and Plumbing Company. (See Shearlock, Joseph G., assignor.)						
New Jersey Asbestos Company. (See Hawkrige, Joseph, assignor.)						
New Jersey Car Spring and Rubber Company. (See Egan, Thomas A., assignor.)						
New Jersey Wire Cloth Company. (See Orr, William, assignor.)						
New Kensington Manufacturing Company. (See Bellman, Robert H., assignor.)						
New Process Food Company. (See Hetherington, John H., assignor.)						
New York and Pennsylvania Company. (See Armstrong, Lewis D., assignor.)						
New York Asbestos Manufacturing Company. (See Lantzke, Albert, assignor.)						
New York Belting and Packing Company. (See McClymonds, Louis K., assignor.)						
New York Bicycle Equipment Company. (See Mercier, Pierre, assignor.)						
New York Bottle Cap and Machine Company. (See Rau, Henry, assignor.)						
New York Electric Motor and Ventilator Company. (See Brinkman, Sebastian G., assignor.)						
New York Waistband Company. (See Green, Herman, assignor.)						
Newark Faucet Company. (See Beebe, Dillon, assignor.) (Reissue.)						
Newbaker, Charles A., Pittsburg, Pa. Timing mechanism for races	569,296	Oct. 13	1000	239 240	77	206
Newburg, John I., Vicksburg, Miss. Dam, revetment, and jetty and apparatus for building same	565,019	Aug. 4	96	23, 24	76	636
Newburg, John I., Vicksburg, Miss. Bridge	565,020	Aug. 4	102	24, 25	76	637
Newburg, John I., Vicksburg, Miss. Propeller for vessels	565,021	Aug. 4	107	25	76	638
Newburg, John I., Vicksburg, Miss. Hydraulic motor	565,022	Aug. 4	108	25, 26	76	638
Newcomb, Albert C., Springfield, assignor to Newcomb Filter Company, Holyoke, Mass. Apparatus for filtering and clarifying liquids	571,312	Nov. 10	1584	376	77	963

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Newcomb Filter Company. (See Newcomb, Albert C., assignor.)						
Newell, Augustus W., Bradford, Pa. Convertible trunk	571,681	Nov. 17	2202	530	77	1089
Newell, Charles E., assignor to Chase Machine Company, Cleveland, Ohio. Compensating mechanism for towing vessels	561,172	June 2	181	45, 46	75	1401
Newell, Darius E., New York, N. Y. Pulley. (Reissue)	11,525	Mar. 17	2228	520	74	1581
Newell, Edwin F., Middletown, Conn. Blind-slat journal	552,541	Jan. 7	65	18	74	15
Newell, Frank, assignor of one-fifth to G. S. Stanton, New York, N. Y. Railway-switch and means for operating same	560,743	May 26	2577	594	75	1242
Newell, George C., Clearwater, Minn. Chopping-knife	554,788	Feb. 18	1742	408	74	863
Newell, George H., Grand Rapids, Mich. Lawn-sprinkler	567,916	Sept. 15	2035	488	76	1691
Newell, Michael. (See Stoll, Daniel H., assignor.)						
Newhall, Henry B., Plainfield, N. J. Thermal door-closing mechanism	570,710	Nov. 3	539	125	77	738
Newhall, Henry B., Plainfield, N. J. Trolley-door system	570,711	Nov. 3	540	126	77	739
Newhall, Walter W., assignor of one-half to R. C. Parker, Columbus, Ohio. Faucet attachment for drawing beer, &c	552,771	Jan. 7	492	121	74	93
Newman, Albert G., and J. A. Johnson, Jr., Stratford, Iowa. Power attachment for pumps	573,525	Dec. 22	2575	611	77	1819
Newman, George R. J., Washington, D. C. Car-coupling	572,710	Dec. 8	1100	266	77	1507
Newman, Hugo, New York, N. Y. Transom-adjuster	571,386	Nov. 17	1706	405	77	999
Newman, Jesse S., Hoyt, Pa. Frumigator	556,936	Mar. 24	2590	609	74	1663
Newman, John B., Detroit, Mich. Check and shade holder. (Reissue)	11,535	Apr. 28	3281	792	75	667
Newman, John B., and D. H. Roberts, Detroit, Mich. Attachment for umbrellas	566,610	Aug. 25	2985	729	76	1233
Newman, Nelson, assignor of two-thirds to S. J. Willett and G. A. Sanders, Springfield, Ill. Velocipede	561,270	June 2	332	83	75	1433
Newman, Reuben F., Manasquan, N. J. Neck-strap for horses	572,024	Nov. 24	2924	666	77	1326
Newman, Samuel T. (See Comes and Newman)						
Newman, Theodore R., Rossland, Canada. Car-holder	569,797	Oct. 20	1910	453	77	388
Newnam, Edward B., Denver, Colo. Foot-vise	556,433	Mar. 17	1742	405	74	1488
Newsom, Orlando C., Danville, Ind. Railway-track bed	574,106	Dec. 29	3640	870	77	2032
Newton, Arthur, Boston, assignor, by mesne assignments, to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Nail-package	572,061	Nov. 24	2896	683 684	77	1239
Newton, Daniel H., Rochester, assignor, by mesne assignments, of one-half to J. C. Darrow, Minneapolis, Minn. Starching-machine	571,281	Nov. 10	1531	363	77	951
Newton, E. Bertram. (See Goettel, John, assignor.)						
Newton, Ella J. (See Tiner, John F., assignor.)						
Newton, Henry E., assignor of one-half to A. M. Ozmun, Los Angeles, Cal. Automatically-opening book	558,203	Apr. 14	1227	299	75	249
Newton, Henry S., Syracuse, N. Y. Rail-bond	568,918	Oct. 6	340	79	77	65
Newton, Herbert B. (See Webster, Harold A., assignor.)						
Newton, James E., Fall River, Mass. Bicycle trousers-protector	562,150	June 16	1925	468	75	1776
Newton, Joseph A., Columbus, Ind. Sash-lock	573,347	Dec. 15	2234	534	77	1738
Newton, Philip, Grand Harbor, Canada. Fork	567,194	Sept. 8	806	191	76	1446
Newton, Sarah F., et al. (See Taylor, James T., assignor.)						
Newton, Stephen S., assignor to T. Clark, New York, N. Y. Memorandum-book	554,194	Feb. 4	711	161	74	635
Newton, Thomas J. (See Andrus and Newton.)						
Ney, Nannie U. (See Woolfolk and Nev.)						
Neyquist, John, Coburn, Pa. Artificial limb	574,212	Dec. 29	3851	924	77	2074
Nicely, Frank P., South Bend, Ind. Paper-machine	570,949	Nov. 10	963	223 224	77	846
Nichol, Frank E., Portobello, Scotland, assignor of one-half to T. Redman, Bradford, England. Suspension of incandescent gas-lamps	555,732	Mar. 3	419	96	74	1205
Nicholas, William H., Boston, and R. Stephenson, Quincy, Mass. Blackleading-machine	571,199	Nov. 10	1390	325	77	925
Nicholes, Herbert W., assignor of two-thirds to R. N. Holland and W. E. Gilbert, Marietta, Ga. Pan holder and lifter	572,815	Dec. 8	1285	309	77	1542
Nicholls, Mark M., New York, N. Y. Tubing	568,870	Oct. 6	273	63	77	53
Nichols, Aaron S., Chicago, Ill., assignor to himself, and G. B. Howard, Brooklyn, N. Y. Dry-kiln	553,928	Feb. 4	237	51	74	549
Nichols, Adelbert S., New York, N. Y. Tilework	558,300	Apr. 14	1390	339	75	280
Nichols, Alfred S. (See White, Joseph P., assignor.)						
Nichols, Benito, assignor of one-half to G. Frankel, New York, N. Y. Display-card for exhibiting materials for dress, &c	564,836	July 28	2786	662	76	560
Nichols, Benjamin, Revere, Mass. Advertisement-shifter	571,822	Nov. 24	2581	611	77	1180
Nichols, Charles S. (See Taylor, James A., assignor.)						
Nichols Chemical Company. (See Herreshoff, John B. F., assignor.)						
Nichols, Edwin C., Topeka, Kans. Apparatus for compressing and storing air	555,178	Feb. 25	2446	580	74	1011
Nichols, Emory I., San Francisco, Cal. Apparatus for raising liquids	559,595	May 5	417	99 100	75	763
Nichols, Emory I., San Francisco, Cal. Chair attachment	560,044	May 12	1220	228	75	938
Nichols, George B., Little Rock, Ark. Garment-supporter	560,744	May 26	2580	594	75	1242
Nichols, George H., Akron, Ohio. Dredger	563,876	July 14	1115	262	76	924
Nichols, John L., St. Paul, Minn. Printer's quoin	567,497	Sept. 8	1346	324	76	1542
Nichols, John L., assignor of one-half to J. Brandtjen, St. Paul, Minn. Perforating or scoring attachment for printing-machines	566,090	Aug. 18	2081	507	76	1045
Nichols, John S., Edgerton, Minn. Power-transmitting device	572,816	Dec. 8	1286	309	77	1542
Nichols, Luther, et al. (See Trafton, William G., assignor.)						
Nichols, Lyman, Trenton, N. J. Support for sinks, &c	560,302	May 19	1766	402	75	1077
Nichols, Mortimore O. (See Yocum and Nichols.)						
Nichols, Seth A., Fowlerville, Mich. Can-opener	572,560	Dec. 8	821	197	77	1450
Nichols, Thomas, assignor to G. Waite, Templeton, Mass. Dowel-cutter	553,624	Jan. 28	2037	482	74	425
Nicholsburg, Henry, New York, N. Y. Apparatus for cleaning carriages	553,291	Jan. 21	1470	353	74	303
Nicholsburg, Henry, New York, N. Y. Hose-nozzle	553,999	Feb. 4	361	79	74	571
Nicholson, Herbert, Red Lodge, Mont. Coffee-pot	555,394	Feb. 25	2830	666 667	74	1082
Nicholson, Stephen, Providence, R. I. Grinding-machine	556,638	Mar. 17	2085	488	74	1551
Nicholson, William H., Wilkes-Barré, Pa. Shaft-coupling	565,088	Aug. 4	237	57	76	660
Nick, Jacob, et al. (See Wendt, Fred, assignor.)						
Nick, Mathias, et al. (See Wendt, Fred, assignor.)						
Nickel, Adam, New York, N. Y. Action for upright pianos	566,927	Sept. 1	330	77	76	1345
Nickel, Adam, New York, N. Y. Action for grand pianos	566,928	Sept. 1	332	78	76	1346
Nickerson, Harry E., Cambridge, Mass. Push-button switch	558,299	Apr. 14	1328	339	75	220
Nickerson, Hiram B., Stoughton, Mass., assignor to Aerial Bicycle Company, of Maine. Aerial bicycle	563,793	July 14	949	225	76	194
Nickerson, Hiram B., Boston, and G. W. Eldridge, Vineyard Haven, Mass.; said Nickerson assignor to said Eldridge. Device for indicating the trim of vessels	564,449	July 21	2124	497	76	432

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Nickerson, William E., Cambridge, Mass. Door for automatic weighing-machines.....	555,179	Feb. 25	2451	{ 580 581	{ 74	1011
Nickerson, William E., Cambridge, Mass. Automatic weighing-machine.....	555,393	Feb. 25	2827	{ 665 666	{ 74	1081
Nicklin, Albert E., Acton, Canada. Brakeman's moccasin.....	566,407	Aug. 25	2643	645	76	1168
Nickloy, Alden C., Gloversville, N. Y. Tack-hammer.....	563,402	July 7	281	64	76	56
Nickum, Charles G. (See Miller, Thomas M., assignor.)						
Nickum, J. M., <i>et al.</i> (See Maxon, Stiles E., assignor.)						
Nicodemus, Bradley T., <i>et al.</i> (See Brenneisen, John E., assignor.)						
Nicodemus, William A., <i>et al.</i> (See Brenneisen, John E., assignor.)						
Nicol, Harry L. (See Millard, Martin S., assignor.)						
Nicolaus, August, and W. J. Delmar, Bridgeport, assignors of one-third to E. A. Feaz, Plattsville, Conn. Bouquet-holder.....	572,612	Dec. 8	926	224	77	1474
Niebling, William F., Cincinnati, Ohio. Valve-guard.....	567,279	Sept. 8	967	230	76	1474
Niedringhaus, Alexander, assignor to St. Louis Stamping Company, St. Louis, Mo. Manufacture of enameled ware.....	564,217	July 21	1732	.....	76	352
Niedringhaus, Alexander, assignor to St. Louis Stamping Company, St. Louis, Mo. Manufacture of enameled ware.....	568,366	Sept. 29	2863	.....	76	1872
Niehaus, Otto G., West Berkeley, Cal. Window-screen.....	566,929	Sept. 1	333	78	76	1346
Nielson, Samuel A., Madison, Wis. Wire fence.....	560,929	Nov. 3	421	99	77	716
Nienaber, Otto H. R., Hoboken, N. J. Bottle-stopper.....	559,195	Apr. 28	2994	722	75	615
Nies, Bournuef & Co. (See Nies, Frederick R., assignor.)						
Nies, Frederick R., Swampscott, assignor to Nies, Bournuef & Co., Lynn, Mass. Adjustable external joint for escape-pipes.....	559,305	Apr. 28	3191	772	75	650
Nieske, Alwin, Dresden, Germany. Preventing boiler incrustation.....	556,021	Mar. 10	939	.....	74	1324
Nietzki, Rudolph, Basle, Switzerland, assignor to Farbwerke, vormals Meister, Lucius & Brünning, Höchst-on-the-Main, Germany. Yellow coloring-matter.....	555,658	Mar. 3	304	.....	74	1184
Nikoloff, Subbo, Worcester, Mass. Rail-bond for electric railways.....	554,949	Feb. 18	2021	478	74	915
Nils, John H. (See Grover, Henry M., assignor.)						
Niles Tool Works Company. (See Hess, Henry, assignor.)						
Nilson, Lars G. (See Houts and Nilson.)						
Nilson, Lars G. (See Walker and Nilson.)						
Nilson, Lars G., Sioux City, Iowa. Electric-arc lamp.....	552,967	Jan. 14	891	216	74	181
Nilson Manufacturing Company. (See Nilson, Nils, assignor.)						
Nilson, Nils. (See Bradbury and Nilson.)						
Nilson, Nils, Minneapolis, Minn. Automatic steam-trap.....	556,366	Mar. 17	1614	377	74	1464
Nilson, Nils, Minneapolis, assignor to Nilson Manufacturing Company, St. Paul, Minn. Steam-trap.....	557,693	Apr. 7	298	72	75	57
Nilson, Nils, Minneapolis, assignor to Nilson Manufacturing Company, St. Paul, Minn. Automatic steam-trap.....	573,908	Dec. 29	3268	780	77	1965
Nilson, Peter F., assignor of one-half to B. A. Fickas, Phoenix, Ariz. Ter. Type-writing-machine attachment.....	554,831	Feb. 18	1817	{ 425 426	{ 74	879
Nilson, William A. (See Roden, Ernest K., assignor.)						
Nilsson, Carl E., New York, N. Y. Stage apparatus.....	558,413	Apr. 14	1585	387	75	316
Nilsson, George F., Whitinsville, Mass. Steam-boiler.....	562,736	June 23	2920	{ 708 709	{ 75	1979
Nilsson, George F., Whitinsville, Mass. Damper-regulator.....	569,513	Oct. 13	1370	321	77	275
Niman, James A., <i>et al.</i> (See Robbins, Francis H., assignor.)						
Nimmo, Sidney T., Baltimore, Md. Game-of-chance apparatus.....	566,930	Sept. 1	334	78	76	1346
Nisbet, Alexander, New York, N. Y., assignor to A. G. Spalding & Bros., New York, N. Y., and Chicago, Ill. Foot-ball.....	568,871	Oct. 6	274	63	77	53
Nisbet, Jennie L., Syracuse, N. Y. Undergarment.....	561,173	June 2	183	46	75	1402
Nitcher, John W., Galesburg, Ill. Steam-engine.....	561,603	June 9	970	232	75	1579
Nitrauer, Daniel, <i>et al.</i> (See Clark, David K., assignor.)						
Nitzsche, Johann H., Leipzig, Germany. Device for raising or lowering curtains, &c.....	563,299	July 7	110	26	76	23
Nivison, Charles, assignor to Kalamazoo Sled Company and F. W. Underwood, Kalamazoo, Mich. Folding chair.....	569,657	Oct. 20	1643	388	77	341
Nixon, Miles G., Waukegan, Ill. Hydrocarbon-engine.....	559,399	May 5	92	20	75	698
Nixon, Moses C., Omaha, Neb. Check-roller.....	557,315	Mar. 31	3276	785	74	1812
Nixon Telephone and Electrical Construction Company. (See Nixon, William H., assignor.)						
Nixon, W. M., <i>et al.</i> (See Fisher, Robert J., assignor.)						
Nixon, William H., Providence, R. I., assignor to Nixon Telephone and Electrical Construction Company, of Rhode Island. Railway telephone system.....	555,222	Feb. 25	2524	595	74	1024
Noack, Carl O., Stamford, Conn. Fastener for transom-rods.....	556,586	Mar. 17	2007	469	74	1537
Noack, Carl O., Stamford, Conn. Knob attachment.....	556,587	Mar. 17	2008	469	74	1537
Noad, James, London, England. Method of and means for producing lead oxid.....	570,712	Nov. 3	542	126	77	739
Nobbe, Friedrich, and L. Hiltner, Tharand, Germany. Inoculation of the soil for cultivating leguminous plants.....	570,813	Nov. 3	713	.....	77	770
Nobel, Alfred, Paris, France. Gas-check for projectiles.....	563,609	July 7	632	147	76	119
Noble, Benjamin C., assignor, by mesne assignments, to himself and W. H. Hurm, Hamilton, Ohio. Water-heater.....	554,371	Feb. 11	1017	236	74	709
Noble, Charles P., Chicago, Ill. Heating and ventilating system.....	561,688	June 9	1117	266	75	1606
Noble, Charles P., Chicago, Ill. Heating and ventilating system.....	563,677	July 7	744	175	76	140
Noble, Charles P., Chicago, Ill. Heating and ventilating system.....	563,678	July 7	745	{ 175 176	{ 76	140
Noble, Charles P., Chicago, Ill. Heating and ventilating system.....	563,679	July 7	747	176	76	140
Noble, James T. (See Magee, John H., assignor.)						
Noble, John A., San Francisco, Cal. Hot-water irrigator.....	558,979	Apr. 28	2572	625	75	534
Noble, John W., Anniston, Ala. Car-coupling.....	558,414	Apr. 14	1586	387	75	316
Noble, Lafayette, Haverhill, Mass. Camera-stand.....	560,525	May 19	2146	491	75	1145
Noble, Sallie C., Philadelphia, Pa. Protecting-pocket for ranges.....	557,337	Mar. 31	3312	795	74	1819
Noble, Sallie C., Philadelphia, Pa. Protecting-pocket for ranges, &c.....	566,009	Aug. 18	1057	474	76	1022
Nobs, Charles, Jr., Newark, N. J. Watchcase-spring.....	569,297	Oct. 13	1003	240	77	207
Nodder, Joseph, assignor to John Brown & Company, Limited, Sheffield, England. Steam-boiler furnace and flue.....	574,107	Dec. 29	3641	870	77	2033
Noe, Lewis, Oak Tree, N. J. Lock.....	556,765	Mar. 24	2308	543	74	1610
Noël, Victor A. C. (See Dunilac, Frederic A. D. de, assignor.)						
Noelte, Hermann, Berlin, Germany. Carriage-wheel box.....	565,630	Aug. 11	1252	302	76	868
Noelte, Hermann, Berlin, Germany. Child's carriage.....	565,631	Aug. 11	1253	302	76	868
Noetzel, Gregor, Washington, D. C. Instrument for optical observations.....	554,294	Feb. 11	891	205	74	685
Noice, Harry, Hyde Park, N. D. Sirup-pitcher.....	555,395	Feb. 25	2831	667	74	1082
Nolan, James J., <i>et al.</i> (See Kelsea, George K., assignor.)						
Nolan, Michael J., New York, N. Y. Bottle.....	570,607	Nov. 3	320	79	77	698

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Nolan, Richard, and I. A. George, Hastings, Nebr. Riveting-machine.	556,367	Mar. 17	1616	378	74	1464
Nolan, William, Toronto, Canada. Garment-holder.	565,023	Aug. 4	112	26	76	639
Nollendorf, Eugen H. A. H. von Vienna, Austria-Hungary. Electric-arc lamp.	573,526	Dec. 22	2576	611	77	1819
Nonnmeusen, Peter, <i>et al.</i> (See Platto, George D., assignor.)						
Nones, William C., Louisville, Ky. Nut-lock.	574,213	Dec. 29	3882	924	77	2074
Noonan, Philip, Overton, Tex. Railway-tie.	554,372	Feb. 11	1019	236	74	709
Norcross, George A., assignor of two-thirds to J. O. and G. R. Sullivan, San Antonio, Tex. Autographic register.	568,454	Sept. 29	3009	724	76	1899
Norcross, Orlando W., Worcester, Mass. Saw for cutting stone.	553,657	Jan. 28	2101	496	74	435
Nordberg, Bruno V. (See Heikel, Daniel A., assignor.)						
Norden, Mortimer, assignor to Miner & Co., New York, N. Y. Electric sign.	568,204	Sept. 22	2586	623	76	1804
Norden, Mortimer, assignor to Miner & Co., New York, N. Y. Signal for cable-railways.	568,205	Sept. 22	2589	623	76	1804
Nordley, Ole. (See Bakke, Hans, assignor.)						
Nordyke & Marmon Company. (See Brantingham, Allen C., assignor.)						
Norkus, Ferdinand, Indianapolis, Ind. Cabinet.	566,010	Aug. 18	1958	474	76	1023
Norlund, Olof A., assignor of one-half to W. B. Clark, Cedar Run, Pa. Nut-lock.	570,101	Oct. 27	2434	475	77	500
Norman, Addison, assignor of part to W. McCabe, W. Jones, and W. B. Taylor, Toronto, Canada. Electric railway.	570,328	Oct. 27	2883	685	77	583
Norman, William W., St. Louis, Mo. Fence-wire stretcher.	557,418	Mar. 31	3461	830	74	1849
Norrington, Henry H., West Bay City, Mich. Apparatus for lighting buildings.	554,295	Feb. 11	893	205	74	685
Norrington, Henry H., West Bay City, Mich. Lighting apparatus.	554,296	Feb. 11	894	206	74	686
Norrington, Henry H., West Bay City, Mich. Savings-bank.	555,111	Feb. 25	2336	555	74	989
Norrington, Henry H., West Bay City, Mich. Savings-bank.	555,876	Mar. 3	658	157	74	1251
Norrington, Henry H., West Bay City, Mich. Savings-bank.	569,798	Oct. 20	1912	454	77	388
Norris, Frank M., assignor of two-thirds to F. H. Slater, Franklin Grove, and I. Bowers, Brookville, Ill. Fence-wire stay.	560,526	May 19	2148	491	75	1146
Norris, Frederick. (See Higgins, Thomas, assignor.)						
Norris, George D., <i>et al.</i> (See Brenneisen, John E., assignor.)						
Norris, James A. (See Young and Norris.)						
Norris, James H., Virginia, Ill. Farm-gate.	566,216	Aug. 18	2293	561	76	1085
Norris, Joseph S. (See Norris, William B. and J. S.)						
Norris, Leonidas, South Bend, Ind. Pneumatic stacker.	559,196	Apr. 28	2995	723	75	615
Norris, Rollin. (See Clark and Norris.)						
Norris, Rollin, assignor to United Gas Improvement Company, Philadelphia, Pa. Method of and apparatus for carbureting water-gas.	563,300	July 7	110	26, 27	76	23
Norris, Rollin, assignor to United Gas Improvement Company, Philadelphia, Pa. Differential indicator for gas apparatus.	572,366	Dec. 1	497	116	77	1372
Norris, Webster, Melrose, assignor to Boston Rubber Shoe Company, Boston and Malden, Mass. Rubber boot.	553,130	Jan. 14	1168	284	74	234
Norris, William, Toronto, Canada. Combined return water-trap and boiler-feed.	558,608	Apr. 21	1928	468	75	397
Norris, William B. and J. S., Chicago, Ill. Newspaper-vending machine.	553,761	Jan. 28	2275	538	74	469
North American Electric Storage Company. (See Williams and Hamrick, assignors.)						
North, Charles H., Cleveland, Ohio. Magneto-electric generator.	569,385	Oct. 13	1152	274	77	236
North & Co., O. B. (See Smith, Charles H., assignor.)						
North, Ebenezer, London, Canada. Concrete-stone gully or catch-basin.	554,000	Feb. 4	363	79	74	572
North, Frank M. (See Brown, William B., assignor.)						
North, James E., Baltimore, Md. Shirt.	560,527	May 19	2148	491	75	1146
North, Loyal C., and F. Stake, assignors of one-third to J. Wherry, Jefferson, Iowa. Watering-trough.	564,635	July 28	2452	577	76	500
North, Thomas M., Brooklyn, assignor to E. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Rotary folding-machine.	573,348	Dec. 15	2235	534, 535	77	1739
Northall, William H., assignor of two-thirds to J. H., H. B., F. C., and W. H. Polsdorfer, Evansville, Ind. Stamp-protector.	565,295	Aug. 4	641	152	76	734
Northam, Robert J., La Mirada, Cal. Surveyor's monument.	564,025	July 14	1380	321	76	272
Northey, John P. (See Ketchum, Oliver W., assignor.)						
Northrop, James H. (See Draper and Northrop.)						
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Loom.	553,814	Jan. 28	2336	561	74	484
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Warp stop-motion for looms.	554,605	Feb. 11	1422	333	74	786
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Thread-partner for looms.	556,688	Mar. 17	2159	505	74	1566
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Loom.	557,998	Apr. 7	862	217	75	162
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Thread-partner for looms.	560,745	May 26	2581	595	75	1242
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Beam clamp or lock for looms.	563,610	July 7	634	148	76	119
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Self-threading loom-shuttle.	568,206	Sept. 22	2590	624	76	1805
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Self-threading loom-shuttle.	568,207	Sept. 22	2592	624	76	1805
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Self-threading loom-shuttle.	568,319	Sept. 22	2780	668	76	1842
Northrop, James H., assignor to Northrop Loom Company, Hopedale, Mass. Loom.	563,611	July 7	635	148	76	119
Northrop, James H., Hopedale, Mass., assignor to Northrop Loom Company, Saco, Me. Loom.	568,455	Sept. 29	3012	721	76	1900
Northrop, James H., Hopedale, Mass., assignor to Northrop Loom Company, Saco, Me. Cloth-evening device.	569,586	Oct. 13	1512	356	77	301
Northrop Loom Company. (See Brunette and Horne, assignors.)						
Northrop Loom Company. (See Draper, George A., assignor.)						
Northrop Loom Company. (See Draper, George O., assignor.)						
Northrop Loom Company. (See Draper and Northrop, assignors.)						
Northrop Loom Company. (See Northrop, James H., assignor.)						
Northrop Loom Company. (See Railton, James, assignor.)						
Northrop Loom Company. (See Ryon, Eppa H., assignor.)						
Northrop Loom Company. (See Smith, Oberlin, assignor.)						
Norton, Arthur O. (See Robinson, Frank, assignor.)						
Norton, Charles A. Q., Needham, Mass. Means for protecting backs of books.	560,323	May 19	1803	410	75	1083
Norton, Charles E., assignor of one-half to C. F. Pendleton, Norfolk, Va. Air-injector for furnaces.	556,687	Mar. 17	2158	504	74	1566
Norton, Edwin, <i>et al.</i> (See Hodgson, John G., assignor.)						
Norton, Edwin D., Delevan, N. Y. Combined washbench and ironing-table.	557,867	Apr. 7	607	144, 145	75	115
Norton, Elisha S. (See Young and Norton.)						
Norton, Frank J., Ithaca, N. Y. Stovepipe-holder.	569,123	Oct. 6	692	162	77	132

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Norton, James A., assignor of two-thirds to J. R. Mattes and F. P. Motie, Odebolt, Iowa. Table attachment for beds	573,909	Dec. 29	3270	{ 780 781	77	1966
Norton, James T., Boston, Mass. Electric switch	571,927	Nov. 24	2667	632	77	1196
Norton, John S., assignor of one-fourth to J. Hutchison and O. A. Moyer, Ogden, Utah. Tool-holder	555,733	Mar. 3	490	97	71	1205
Norton, Joseph C., Lynn, Mass. Hot-water heating apparatus	568,872	Oct. 6	275	63, 64	77	53
Norton, Oliver W., <i>et al.</i> (See Hodgson, John G., assignor.)						
Norton, Stephen, Rochester, assignor of one-fourth to E. D. Watkins, Lima, N. Y. Wheel-fender	569,465	Oct. 13	1276	{ 300 301	77	257
Norton, Sylvanus, Sinclairville, N. Y. Storm-guard for vehicles	569,466	Oct. 13	1278	{ 301 302	77	258
Norton, William H., Mexico, N. Y. Poison-distributor	572,907	Dec. 8	1421	{ 342 343	77	1571
Norwalk Iron Works Company. (See Morgan, Henry P., assignor.)						
Norwood, Joseph, Brooklyn, N. Y. Screen for sand, &c.	571,575	Nov. 17	2029	483	77	1057
Nott, Mary W., Richmond, Va. Detachable hinge	563,680	July 7	748	176	76	141
Notter, Charles H., assignor to W. S. Bogle Company, Chicago, Ill. Hoisting-bucket	553,256	Jan. 21	1394	340	74	290
Nonel, Paul-Marie, and J. R. Martini, Troyes, France. Engraver's ruling-machine	564,636	July 28	2454	577	76	500
Nourbourn, James W. (See Latham, Albert, assignor.)						
Nourse, Henry O. (See Smith, Charles T., assignor.)						
Novarine, John L., Brooklyn, N. Y., assignor of one-half to Stearns & Gordon, Jersey City, N. J. Obtaining vanillin	565,918	Aug. 18	1782	-----	76	987
Novarine, John L., Brooklyn, N. Y., assignor of one-half to Stearns & Gordon, Jersey City, N. J. Obtaining vanillin	565,919	Aug. 18	1784	-----	76	987
Nowlen, Edward T., Blythebourne, N. Y. Apparatus for renovating pile fabrics	562,908	June 30	3246	784	73	2060
Noyes, Ellis B. (See Smith and Noyes.)						
Noyes, Frank V., Boston, Mass. Billiard-chalk holder	563,403	July 7	282	64	76	56
Noyes, Henry F., Elgin, Ill. Air-brake	553,565	Jan. 28	1940	458	74	407
Noyes, Henry F., Elgin, Ill. Air-brake	564,389	July 21	2026	476	76	404
Noyes, Henry F., Elgin, Ill., assignor of one-half to J. M. Barr, Spokane, Wash. Pipe-coupling	560,815	May 26	2702	621	75	1265
Noyes, Henry F., Elgin, Ill., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake	571,095	Nov. 10	1216	{ 284 285	77	893
Noyes, Henry F., Elgin, Ill., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake	571,786	Nov. 24	2408	{ 574 575	77	1149
Noyes, Joseph G., Milford, Conn. Electric car-heater	557,282	Mar. 31	3223	773	74	1801
Noyes, Joseph G., Milford, Conn. Electric car-heater	568,168	Sept. 22	2529	608	76	1793
Noyes, La Verne W., Chicago, Ill. Air-compressor	563,794	July 14	950	{ 226 227	76	195
Noyes, La Verne W., Chicago, Ill. Hydraulic pump	568,409	Sept. 29	2934	{ 705 706	76	1885
Noyes, Lewis W., Mechanicsville, N. Y. Machine for drying paper	558,301	Apr. 14	1391	340	75	280
Noyes, Parker J., Lancaster, N. H. Apparatus for sugar-coating pills	568,488	Sept. 29	3062	737	76	1908
Noyes, William H., Newburyport, Mass. Comb	565,389	Aug. 4	794	189	76	764
Noyes, William S., Chicago, Ill., assignor to Turner Brass Works, of Illinois. Bicycle-lamp bracket	567,157	Sept. 8	759	177	76	1437
Nuess, Frank. (See Bayer, Nuess, and Schaffitzel.)						
Nugent, Michael J., St. Cloud, Minn. Lamp-chimney holder	560,104	May 12	1399	314	75	960
Nubring, Charles, Cincinnati, Ohio. Hose-rack	558,096	Apr. 14	1059	260	75	217
Numan, Charles H., <i>et al.</i> (See Gardner, Charles H., assignor.)						
Numerograph Manufacturing Company. (See Dudley, George W., assignor.)						
Nurick, Alexander, Pittsburg, Pa. Game-board	569,140	Oct. 6	726	171	77	138
Nusbaum, Benjamin, and S. Feldenheimer, Philadelphia, Pa. Telescoping dress-case	561,808	June 9	1336	320	75	1647
Nusser, Albert, <i>et al.</i> (See Heck, August, assignor.)						
Nutt, Charles J., Otley, and F. Butin, Galesburg, Iowa. Car-coupling	556,766	Mar. 24	2310	543	74	1611
Nutt, Edward F., deceased; Jasper N. Nutt, Sidney, Ohio, administrator. Waffle-iron	569,227	Oct. 13	883	210	77	184
Nutt, Jasper N., administrator. (See Nutt, Edward F.)						
Nuttall, Thomas B., Pittsburg, assignor of one-half to J. Rhodes, Allegheny, Pa. Apparatus for the manufacture of pipe	566,611	Aug. 25	2986	729	76	1233
Nuttall, Thomas B., Pittsburg, assignor of one-half to J. Rhodes, Allegheny, Pa. Pipe-shears	572,767	Dec. 8	1202	291	77	1525
Nutter, Harrison, Alton, Ill. Can-filler	664,637	Feb. 28	2455	577	76	500
Nutter, Seth O., Sherbrooke, Canada. Sleigh-truck	569,050	Oct. 6	577	132	77	110
Nutting, Charles E., assignor to G. Draper & Sons, Hopedale, Mass. Self-threading loom-shuttle	560,746	May 26	2582	595	75	1242
Nutting, Granville, Jersey City, N. J., assignor of two-thirds to I. Boehm and F. Hecht, New York, N. Y. Cyclometer	555,659	Mar. 3	305	72	74	1185
Nutting, Samuel E., Chicago, Ill. Electric-arc lamp	559,863	May 12	941	{ 210 211	75	873
Nutting, Sidney S., Elgin, Ill. Sash-lock	555,017	Feb. 18	2152	513	74	938
Nutz, Albert W., Wallace, Kans. Lock for bicycles	565,782	Aug. 11	1526	372	76	920
Nütz, George W., Wilmington, Del. Dental plugger	556,202	Mar. 10	1283	300	74	1386
Nyberg, Matts L., Erie, Pa. Gas heating apparatus	569,658	Oct. 20	1644	388	77	342
Nyberg, Matts L., and J. F. Skoog, Erie, Pa. Burner for gas-stoves	557,506	Mar. 31	3618	867	74	1878
Nye, Frank A., assignor to Nye & Tredick, Philadelphia, Pa. Circular-knitting machine	556,514	Mar. 17	1898	{ 441 442	74	1517
Nye, Frank A., assignor to Nye & Tredick, Philadelphia, Pa. Knitting-machine	573,527	Dec. 22	2578	612	77	1820
Nye, Frederick W., assignor of two-thirds to H. E. Young and T. P. Downes, Cincinnati, Ohio. Car-fender	561,061	May 26	3131	722	75	1346
Nye & Tredick. (See Nye, Frank A., assignor.)						
Nylander, Joseph L., Duluth, Minn. Logging-sled	570,677	Nov. 3	481	113	77	728
O. Armleder Company. (See Armleder, Otto, assignor.)						
O. H. Jewell Filter Company. (See Jewell, Omar H., assignor.)						
O. S. Kelly Company. (See Cadogan, Thomas C., assignor.)						
O'Bar, William A., Everett, Wash. Whiffletree	574,071	Dec. 29	3578	855	77	2021
O'Brien, Andrew P., assignor of one-half to A. D. Ledoux, Richmond, Va. Combined bag-holder and scale	570,561	Nov. 3	241	60	77	682
O'Brien, Arthur, assignor of one-half to C. B. Miller, Helena, Mont. Water-closet	567,498	Sept. 8	1347	324	76	1543
O'Brien, Arthur, assignor of one-half to C. B. Miller, Helena, Mont. Sanitary appliance for bath-tubs, washstands, &c.	567,499	Sept. 8	1347	324	76	1543
O'Brien, Arthur, assignor of one-half to H. E. Miller, Helena, Mont. Cowl	567,500	Sept. 8	1349	325	76	1543
O'Brien, Arthur, assignor of one-half to H. E. Miller, Helena, Mont. Ventilator	567,501	Sept. 8	1351	325	76	1543
O'Brien, Arthur, and C. B. Miller, Helena, Mont. Combined car coupling and brake	554,195	Feb. 4	712	161	74	635
O'Brien, Charles A. (See Bryce, Andrew, assignor.)						
O'Brien, Charles A. (See Semmer, Phillip, assignor.)						
O'Brien, Daniel D., Waukesha, Wis. Slide-carrying device for magic lanterns	568,695	Sept. 29	3471	831	76	1985

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O'Brien, Daniel F. (See O'Brien, Edward F., assignor.)						
O'Brien, Denis, Middletown, Conn. Mason's jointer	565,784	Aug. 11	1539	372	76	920
O'Brien, Edward F., assignor to D. F. O'Brien, Newport, R. I. Hose-supporter	565,920	Aug. 18	1785	434	76	987
O'Brien, Edward J., and E. Schaefer, St. Louis, Mo. Fire-extinguisher	560,277	May 19	1726	391	75	1071
O'Brien, G. G. (See Palmer, Arthur, assignor.)						
O'Brien, James, Evansville, Ind. Mine trap-door. (Reissue)	11,551	June 30	3856	{ 923 924 }	{ 75 }	2179
O'Brien, John. (See Morrell, Albert W., assignor.)						
O'Brien, John, St. Louis, Mo. Downdraft-furnace	557,419	Mar. 31	3462	830	74	1849
O'Brien, John F., London, England. Overshoe	553,592	Jan. 28	1988	471	74	416
O'Brien, Lawrence C. (See Waddell, Thomas J., assignor.)						
O'Brien, Mary, <i>et al.</i> (See Winters, John W., assignor.)						
O'Brien, Neil, Binghamton, N. Y. Folding table	564,711	July 28	2568	608	76	522
O'Brien, Thomas E., Chicago, Ill. Couch, bed, &c	564,531	July 21	2253	529	76	445
O'Brien, William S., Lafayette, Ind. Wagon-wheel	569,467	Oct. 13	1280	301	77	258
O'Byrne, William J., Pontoon, Ill. Car-truck bearing	564,532	July 21	2255	529	76	446
O'Callaghan, John T., London, England. Flour compound and preparing same	559,462	May 5	198		75	720
O'Connell, Joseph J., Chicago, Ill., assignor to American Bell Telephone Company, Boston, Mass. Signaling-circuit	555,707	Mar. 3	377	88	74	1197
O'Connell, Patrick J., assignor to G. Draper & Sons, Hopedale, Mass. Self-threading loom-shuttle	559,306	Apr. 28	3193	772	75	650
O'Connor, Andrew C., Lynn, Mass. Electric railway	573,234	Dec. 15	2021	485	77	1700
O'Connor, Daniel J. (See Scholz, O'Connor, and Bremner.)						
O'Connor, Edward J., Hartford, Conn. Gear-cutting machine	563,301	July 7	112	27, 28	76	24
O'Connor, Edward L., Chicago, Ill. Extension-foot	553,929	Feb. 4	238	51	74	550
O'Connor, John, and C. A. Turner, assignors to J. O'Connor and C. A. Turner, New York, N. Y., and D. D. Turner, Jersey City, N. J. Alarm for boilers	566,612	Aug. 25	2987	729	76	1233
O'Connor, John, and C. A. Turner, assignors to J. O'Connor and C. A. Turner, New York, N. Y., and D. D. Turner, Jersey City, N. J. Steam-gage	566,613	Aug. 25	2989	730	76	1233
O'Connor, Thomas F., New York, N. Y. Electric railway	553,176	Jan. 14	1251	304	74	249
O'Connor, William H., Providence, R. I. Fluid-pressure brake	570,678	Nov. 3	485	{ 113 114 }	{ 77 }	729
O'Day, Simon, Muskegon, Mich. Oil-carrying projectile	560,747	May 26	2584	595	75	1243
O'Donnell, John H., assignor to Waterbury Machine Company, Waterbury, Conn. Wire-drawing machine	560,278	May 19	1727	392	75	1071
O'Donnell, John P. (See Sykes and O'Donnell.)						
O'Hara, Walter W., Arlington, Mass., assignor to Carter-Crume Company, Niagara Falls, N. Y. Manifold memorandum-book	559,145	Apr. 28	2907	702	75	597
O'Hearn, George E., Gardner, Mass. Wicker-work	555,180	Feb. 25	2452	581	74	1012
O'Kain, Domenech C., Wilkensburg, assignor to E. H. Goodman, Pittsburg, Pa. Slack-adjuster for brake-rigging	573,613	Dec. 22	2730	{ 645 649 }	{ 77 }	1850
O'Keefe, Edward J., Vandling, Pa., assignor to Hendrick Manufacturing Company, Limited. Miner's lamp	564,450	July 21	2125	497	76	422
O'Keller, Charles L., Ash Grove, Mo. Churn	567,354	Sept. 8	1117	268	76	1500
O'Leary, Francis P. (See Sarraff, Holuman J., assignor.)						
O'Leary, Jeremiah J. and P. T., Worcester, Mass. Bung for beer-barrels	562,414	June 23	2358	576	75	1874
O'Leary, Patrick T. (See O'Leary, Jeremiah J. and P. T.)						
O'Meara, Jeremiah, New York, N. Y. Removable seat	554,720	Feb. 18	1623	{ 382 383 }	{ 74 }	841
O'Neal, Adelaide J., San Francisco, Cal. Flower-holder	568,269	Sept. 22	2695	645	76	1825
O'Neill, Alexander G., assignor to Kindling Wood Machinery Company, New York, N. Y. Sawing-machine	554,001	Feb. 4	364	79, 80	74	572
O'Neill Crossing Alarm Company. (See Miller, Henry V., assignor.)						
O'Neill, Edward, Milwaukee, Wis. Hand-truck	552,696	Jan. 7	345	91	74	67
O'Neill, George A. (See O'Neill, James A. and G. A.)						
O'Neill, James A. and G. A., assignors to Electric Gas Lighting Company of Maine, Boston, Mass. Electric gas-lighting burner	555,968	Mar. 10	835	199	74	1306
O'Neill, James J., Boston, Mass. Wall-insulator	573,101	Dec. 15	1784	429	77	1657
O'Neill, John G., assignor to Rockford Sugar Refining Company, Limited, Rockford, Ill. Separating and collecting germs from corn	567,790	Sept. 15	1831	439	76	1650
O'Neill, John M., Chicago, Ill. Steam-cooker	565,787	Aug. 11	1534	373	76	921
O'Neill, John T., and J. A. Currie, Philadelphia, Pa. Hoisting apparatus	558,302	Apr. 14	1393	340	75	281
O'Neill, William, Brooklyn, N. Y. Button	571,387	Nov. 17	1707	406	77	999
O'Neill, William J., Stamford, Conn. Ash-sifter	559,596	May 5	419	100	75	764
O'Riva, John B., New York, N. Y. Bookbinding	562,649	June 23	2765	672	75	1950
O'Shaughnessy, Patrick F., and O. T. Crosby, assignors to Sprague Electric Railway and Motor Company, New York, N. Y. Trolley for electric railways	557,015	Mar. 24	2745	{ 650 651 }	{ 74 }	1692
O'Sullivan, John E., Hayden Row, assignor of one-half to W. F. Draper, Hopedale, Mass. Cow-milker	572,713	Dec. 8	1106	268	77	1508
O'Toole, Charles, Dubuque, Iowa. Boiler	560,919	May 26	2907	666	75	1304
O'Toole, Edward F., St. Louis, Mo. Sheet-metal vessel	565,024	Aug. 4	112	27	76	639
O'Toole, Richard, Thurmont, Md. Railway-crossing signal	556,553	Mar. 17	1955	456	74	1527
O'Toole, William P. (See Marks, Richard J., assignor.)						
Oakden, Frank, Dunedin, New Zealand. Car-fender	557,598	Apr. 7	125	32	75	25
Oakes, Isaac L., Galion, Ohio. Detachable mud-guard for vehicles	562,192	June 16	1999	484	75	1791
Oakes, Lucian R., Bloomington, Ind. Incubator	562,847	June 30	3137	{ 759 760 }	{ 75 }	2038
Oakley, James S., Montclair, N. J. Nut-lock	565,142	Aug. 4	361	84	76	684
Oakman, R. N., Jr. (See Axtell, Henry A., assignor.)						
Oakman, Richard N., Jr., and G. W. Morrison, Greenfield, Mass. Burner for fuel-gas	562,069	June 16	1831	445	75	1758
Oakman, Samuel, Melrose, Mass. Packing-case for bottles	561,912	June 9	1513	366	75	1680
Oakville Company. (See Boden, George, assignor.)						
Oakville Company. (See Bronson, Julius H., assignor.)						
Obenauer, Frederick A. (See Slaker, Frank J., assignor.)						
Ober, Joseph S., Kidgeley, Md. Transplanter	554,139	Feb. 4	626	141	74	619
Oberg, August J., and A. W. Gustafson, assignors of one-third to J. A. Cummings, Waterloo, Nebr. Bicycle-frame	565,783	Aug. 11	1527	372	76	920
Oberg, John H., Two Harbors, Minn. Ax and ax-handle	556,767	Mar. 24	2311	543	74	1611
Oberholtzer, Henry A. (See Penchard, William E., assignor.)						
Oberlauer, Hugo, Leipzig, Germany. Automatic ball-coupling for railway-wagons	571,682	Nov. 17	2203	531	77	1090
Oberleithner, Eduard von, Mährisch-Schönberg, Austria-Hungary. Loom	571,236	Nov. 10	1455	341	77	937
Oberly, Virginia H., Concord, N. H. Corset-waist	573,025	Nov. 24	2825	667	77	1226
Obermeyer, Henry, Beatrice, Nebr. Churn	560,528	May 19	2149	491	75	1146
Oberndorf, Abraham, Jr., Centralia, Kans. Safe attachment	562,737	June 23	2922	709	75	1979
Oberndorf, Abraham, Jr., Centralia, Kans. Safe attachment	563,681	July 7	749	177	76	141

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Oberson, Alfred S., Westby, Wis. Stump-puller.....	567,039	Sept. 1	541	{ 126 127 }	76	1384
Oberstebrink, Wilhelm. (See Frowein and Oberstebrink.)						
Obrebowicz, Casimir, Warsaw, Russia. Regulating device for low-pressure steam heating apparatus.....	556,860	Mar. 24	2460	579	74	1640
Obry, Ludwig, Trieste, Austria-Hungary. Steering mechanism for torpedoes.....	562,235	June 16	2062	{ 499 500 }	75	1803
Oca y Melan, Ignacio M. de, New York, N. Y. Aerial railway.....	569,468	Oct. 13	1281	302	77	258
Oddy, Thomas, Rochdale, assignor of one-half to Holmes & Sons, Limited, Norwich, England. Tread for stairs, steps, &c.....	568,098	Sept. 22	2410	581	76	1771
Odell, Albert P., Bradford, Pa. Ticket-punch.....	565,364	Aug. 4	754	180	76	757
Odell, Jephtha, Excelsior Springs, Mo. Corn-harvester.....	574,108	Dec. 29	3642	870	77	2033
Odell, Robert G., Peekskill, N. Y. Paper-hanger's folding table.....	564,936	July 28	2968	707	76	594
Odenheimer, Louis. (See Teuber and Odenheimer.)						
Oder, George B., et al. (See Badgley, Edwin L., assignor.)						
Oder, Robert S., Kansas City, Mo. Paper-feeding machine.....	567,994	Sept. 22	2192	{ 527 528 529 530 }	76	1732
Oder, Robert S., Kansas City, Mo. Paper-feeding machine.....	567,995	Sept. 22	2201	{ 531 532 }	76	1732
Oderman, Erie H., Waynesborough, Pa. Piston.....	560,918	May 26	2906	666	75	1304
Odinet, Conrad, New York, N. Y. Vessel.....	573,690	Dec. 22	2893	684	77	1881
Oehler, Firm of K. (See Rudolph, Christian, assignor.)						
Oehler, Firm of K. (See Rudolph and Voges, assignors.)						
Oehler, John. (See Garing, Adolph, assignor.)						
Oehlmann, Emil H. C., Berlin, Germany. Incandescent-light burner.....	558,204	Apr. 14	1228	299	75	249
Oehlmann, Emil H. C., Berlin, Germany. Incandescent burner for fluid combustibles.....	573,031	Dec. 15	1653	397	77	1632
Oehlstrom, William, Cleveland, Ohio. Furnace.....	565,214	Aug. 4	492	117	76	708
Oehms, August G. H., Berlin, Germany. Recording apparatus.....	573,478	Dec. 22	2502	593	77	1805
Oehring, August J., assignor to Western Electric Company, Chicago, Ill. Hanger-board for arc lamps.....	555,112	Feb. 25	2337	555	74	990
Oehring, August J., Chicago, Ill., assignor of one-third to Pratt & Cady Company, Hartford, Conn. Multiple drill.....	560,171	May 12	1516	{ 342 343 }	75	981
Oehring, August J., and A. L. Tucker, assignors to Western Electric Company, Chicago, Ill. Scenic-theater apparatus for producing sun effect.....	555,113	Feb. 25	2339	{ 555 556 }	74	990
Oehring, August J., and A. L. Tucker, assignors to Western Electric Company, Chicago, Ill. Circuit-controlling apparatus for scenic theaters.....	555,114	Feb. 25	2341	{ 556 557 }	74	990
Oehring, August J., and A. L. Tucker, assignors to Western Electric Company, Chicago, Ill. Proscenium-curtain for theaters.....	555,115	Feb. 25	2345	{ 557 558 }	74	991
Oehring, August J., and A. L. Tucker, assignors to Western Electric Company, Chicago, Ill. Scenic-theater apparatus for producing eclipse effects.....	559,400	May 5	94	20	75	699
Oehring, August J., and A. L. Tucker, assignors to Western Electric Company, Chicago, Ill. Scenic-theater apparatus for producing moon effects.....	563,302	July 7	116	28	76	24
Oehring, August J., and A. L. Tucker, assignors to Western Electric Company, Chicago, Ill. Scenic-theater apparatus for producing cloud effects.....	563,303	July 7	118	28	76	25
Oehring, August J., and H. H. Wait, assignors to Western Electric Company, Chicago, Ill. Commutator for high-voltage dynamos.....	557,218	Mar. 31	3099	743	74	1780
Oehring, August J., et al. (See Kinney, Alfred W., assignor.)						
Oehring, Louis E., assignor to Western Electric Company, Chicago, Ill. Telegraph-receiver.....	554,395	Feb. 11	1054	246	74	716
Oelschläger, Ernst G. P., Charlottenburg, and K. O. F. Schrottke, Berlin, Germany, assignors to Siemens & Halske Electric Company of America. Lightning-arrester.....	566,011	Aug. 18	1961	475	76	1023
Oesterheld, Carl, Gotha, Germany. Box for distributing pulverulent material.....	573,032	Dec. 15	1655	398	77	1633
Oesterlein, Wilhelm, Cincinnati, Ohio. Conduit electric railway.....	554,719	Feb. 18	1621	382	74	840
Oestmann, Rudolph A. W., Philadelphia, Pa. Shutter-fastener.....	569,724	Oct. 20	1783	424	77	365
Oettinger, Philip J. (See Wolf, Ernest, assignor.)						
Ofeldt, Frank W., Brooklyn, N. Y. Feed mechanism for boilers.....	565,119	Aug. 4	300	71	76	672
Offenbacher, Max, Fürth, Germany. Facet-grinding machine.....	556,515	Mar. 17	1900	442	74	1517
Office Specialty Manufacturing Company. (See Jewell and Yawman, assignors.)						
Ogborn, Harrison, assignor to himself, C. M. Rock, C. W. Bridges, R. R. Rumbarger, and W. H. Ogborn, Indianapolis, Ind. Trolley-finder.....	564,638	July 28	2457	578	76	501
Ogborn, William H., et al. (See Ogborn, Harrison, assignor.)						
Ogden, Dora, assignor of one-half to G. L. Reeves, Columbus, Ind. Electric program-clock.....	563,052	June 30	3500	841	75	2112
Ogden, Ernest N., assignor of two-thirds to M. E. Rider, Chatham, N. Y., and M. V. Sprague, Pittsfield, Mass. Construction of pianos.....	557,420	Mar. 31	3463	830	74	1849
Ogden, Ernest N., assignor of two-thirds to M. E. Rider, Chatham, N. Y., and M. V. Sprague, Pittsfield, Mass. Piano-case.....	559,742	May 5	651	157	75	806
Ogden, Ernest N., and A. H. Meech, assignors of one-half to M. E. Rider, Chatham, N. Y., and M. V. Sprague, Pittsfield, Mass. Piano-frame.....	562,236	June 16	2065	501	75	1803
Ogden, Mancelia E., Newark, N. J. Fire-extinguisher.....	570,262	Oct. 27	2727	649	77	555
Ogden Train-Jack and Manufacturing Company. (See Moyes, Alexander H., assignor.)						
Ogg, Hiram E., et al. (See Nellis, Charles E., assignor.)						
Ogilbe, Betton, Philadelphia, Pa. Pleasure-railway.....	555,049	Feb. 18	2227	532	74	951
Ogle, Edwin T. (See Lea, Samuel H., assignor.)						
Ohio Oil Improvement Company. (See Smith, Carlos A., assignor.)						
Ohl, Christina, et al. (See Christ, Jacob, assignor.)						
Ohlsen, Ulrich, Denver, Colo. Thrill-coupling.....	568,456	Sept. 29	3015	724	76	1900
Ohlsson, Olof, Newark, N. J. Centrifugal machine.....	573,910	Dec. 29	3271	781	77	1966
Ohman, Lars G., Marieburg, assignor to G. O. F. Morner, Landskrona, Sweden. Cartridge-loading machine.....	566,217	Aug. 18	2295	{ 561 562 }	76	1086
Ohmart, Charles, Girard, Ill. Fence-stay.....	571,683	Nov. 17	2205	531	77	1090
Ohmer, John F. (See Tyler and Ohmer.)						
Ohmer, John F., Dayton, Ohio. Fare-register.....	560,529	May 19	2151	492	75	1146
Ohnemus, Anton, Quincy, Ill. Stove.....	565,785	Aug. 11	1531	373	76	921
Okun, Moses S., New York, assignor to M. F. Burns, Brooklyn, N. Y. Electric-arc lamp.....	562,090	June 16	1833	446	75	1759
Olan, Johan W. T., New York, N. Y. Electric battery.....	553,719	Jan. 28	2199	522	74	454
Older, Charles S. (See Waugh and Older.)						
Older, Clark, Portage, Wis. Knitting-machine and knit fabric.....	552,583	Jan. 7	136	38	74	27
Oldershaw, Henry A., Leicester, England. Edge-setting machine.....	571,602	Nov. 17	2072	497	77	1065
Oldfield, John, Medford, Mass. Sand-depositing apparatus for cars.....	571,136	Nov. 10	1298	302	77	907
Oldfield, John F., Baltimore, Md. Dry-kiln.....	568,987	Oct. 6	475	107	77	91
Oldham, George, Philadelphia, Pa. Shedding-motion for looms.....	572,711	Dec. 8	1102	267	77	1507

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Oldham, Joseph R., Cleveland, Ohio. Hatch for ships.....	574,259	Dec. 29	3964	942	77	2090
Oldham, Joshua, Brooklyn, N. Y. Saw.....	571,200	Nov. 10	1392	325	77	925
Oldroyd, Thomas, New London, Conn. Nut-lock.....	569,423	Oct. 13	1216	286	77	246
Olds, Ransom E., Lansing, Mich. Combined gas and steam engine.....	570,263	Oct. 27	2729	649	77	555
Olds, Ransom E., and G. E. De Vore, Lansing, Mich. Elevator-gate.....	557,219	Mar. 31	3100	743	74	1780
Olds, Ransom E., and M. F. Bates; said Bates assignor to P. F. Olds & Son, Lansing, Mich. Gas or vapor engine.....	565,786	Aug. 11	1531	373	76	921
Olds, William, Luzerne, Pa. Drill.....	566,527	Aug. 25	2870	697	76	1210
Olekiewicz, Anton von, Jaschuny, Warsaw, Russia. Device for lifting railway metals.....	557,146	Mar. 31	2960	708	74	1758
Oles, Abram D., Unadilla, N. Y. Water-motor.....	572,684	Dec. 8	1045	253	77	1497
Oleson, Charles, and J. D. Morrison, Roseburg, Oreg. Signaling apparatus.....	557,421	Mar. 31	3464	830	74	1849
Oleson, Ephraim, <i>et al.</i> (See Williams, John A., assignor.)						
Olhausen, Jacob H., <i>et al.</i> (See Daves, William, assignor.)						
Olin, John D., St. Henry, Canada. Artificial fuel.....	570,495	Nov. 3	109		77	658
Olin, Fred C., Buffalo, N. Y. Gas-engine.....	569,386	Oct. 13	1154	275	77	236
Olin, Fred C., Buffalo, N. Y. Gas-engine.....	569,564	Oct. 13	1461	345	77	292
Olin, Fred C., Buffalo, N. Y. Gas-engine.....	571,495	Nov. 17	1888	450	77	1031
Oling, Jacob M., Vienna Cross-Roads, Ohio. Street-car motor.....	572,817	Dec. 8	1287	451	77	1542
Oliphant, Estate of Richard J., <i>et al.</i> (See Lockwood and Patterson, assignors.)						
Oliver, Arthur E., Powhatan Court-House, Va. Hand-grubber.....	556,689	Mar. 17	2160	505	74	1506
Oliver, Elam A., Belleville, Wis. Band-fastener.....	555,524	Mar. 3	65	14	74	1142
Oliver Iron and Steel Company. (See Oliver, James B., assignor.)						
Oliver Iron and Steel Company. (See Oliver and Crehan, assignors.)						
Oliver, James. (See Ramusson and Oliver.)						
Oliver, James, assignor to South Bend Iron Works, South Bend, Ind. Moldboard for plows.....	553,930	Feb. 4	240	52	74	550
Oliver, James, assignor to South Bend Iron Works, South Bend, Ind. Plow.....	557,999	Apr. 7	864	217	75	162
Oliver, James B., Shield's Station, assignor to Oliver Iron and Steel Company, Pittsburg, Pa. Insulator-support.....	566,468	Aug. 25	2783	677	76	1193
Oliver, James B., Shields, and H. Crehan, assignors to Oliver Iron and Steel Company, Pittsburg, Pa. Grip-nut.....	569,659	Oct. 20	1646	388	77	342
Oliver, John G. (See Bardons, Oliver, and Drake.)						
Oliver, John G., and G. C. Bardons, Cleveland, Ohio. Automatic valve-milling machine.....	555,116	Feb. 25	2347	558	74	991
Oliver, Miles, Ruthville, Tenn. Double-shovel plow.....	566,528	Aug. 25	2871	697	76	1210
Oliver, Thomas, Woodstock, Ill. Type-writing machine.....	562,337	June 16	2232	543	75	1835
Oliver, Thomas T., Chicago, Ill. Drier.....	561,175	June 2	186	46, 47	75	1402
Oliver, William, Jr. (See Brown, Chancey C., assignor.)						
Oliver, William S., Halifax, Canada. Army-acoutrement.....	563,404	July 7	283	64	76	56
Oliver, William W. (See Svensson, Claes A., assignor.)						
Oliveri, Giuseppe, Washington, D. C. Clarinet.....	570,647	Nov. 3	422	99	77	716
Olvey, Richard J., Buffalo, N. Y. Separating-machine.....	570,608	Nov. 3	321	79, 80	7	698
Ollard, James C., assignor to himself and W. J. Ollard, Tacoma, Wash. Spraying apparatus.....	569,883	Oct. 20	2039	486	77	411
Ollard, William J. (See Ollard, James C., assignor.)						
Olliffe, James, Sr., <i>et al.</i> (See Graebing, Henry S., assignor.)						
Olmsstead, Daniel P. (See McLean, David, assignor.)						
Olmsstead, Ingersoll, Newark, N. J. Switch-operating apparatus.....	568,542	Sept. 29	3188	768	76	1930
Olmsstead, Will H., Syracuse, N. Y. Lantern-slide mat.....	574,214	Dec. 29	3884	925	77	2075
Olney, Allan E., assignor to T. J. Flanagan, Holyoke, Mass. Chiming mechanism.....	571,075	Nov. 10	1177	276	77	885
Olney, Silas B., St. Charles, Mo. Movable jetty.....	560,530	May 19	2153	492	75	1146
Olsen, Englebrecht, Walkerville, Mont. Signal-bell.....	571,013	Nov. 10	1070	250	77	866
Olsen, Henry C., and J. B. Goodwin, Pittsburg, Pa. Heat-deflector.....	555,967	Mar. 10	834	199	74	1306
Olsen, Johan L. W., Copenhagen, Denmark. Baking-oven.....	554,396	Feb. 11	1056	246	74	716
Olsen, Jonas, Brooklyn, N. Y. Whiffletree-hook.....	565,688	Aug. 11	1357	329	76	889
Olsen, Ole. (See Boemermann and Olsen.)						
Olsen, Ole C., Jackson Junction, Iowa. Hame-fastener.....	562,848	June 30	3138	760	75	2038
Olsen, Ole E., Fremont, Nebr. Band-cutter and feeder.....	553,257	Jan. 21	1395	340	74	290
Olsen, Samuel, New York, N. Y. Tool for twisting electric-wire sleeve connections.....	566,614	Aug. 25	2991	731	76	1234
Olsen, Tinius. (See Carpenter, Rolla C., assignor.)						
Olsen, Tinius, Philadelphia, Pa. Machine for testing properties of materials under tensile stress.....	554,297	Feb. 11	896	206	74	686
Olson, Albert G., West Superior, Wis. Bicycle-support.....	574,109	Dec. 29	3645	871	77	2033
Olson, Alfred. (See Hodel and Olson.)						
Olson, Augusta, <i>et al.</i> , executors. (See Olson, Oliver B.)						
Olson, Bertena, <i>et al.</i> , executors. (See Olson, Oliver B.)						
Olson, Christopher H., Tacoma, Wash., assignor to C. H. Olson Gold Dredger Company. Dredging-machine.....	573,832	Dec. 22	3137	747	77	1926
Olson, Hans O., Two Harbors, Minn. Swing.....	566,529	Aug. 25	2871	698	76	1210
Olson, Nils F., Chicago, Ill. Dish-cleaner.....	567,769	Sept. 15	1798	431	76	1644
Olson, Olaus, and J. A. Johanson, Brooklyn, N. Y. Merry-go-round.....	572,712	Dec. 8	1104	268	77	1508
Olson, Oliver B., deceased, Chicago, Ill.; A. and B. Olson executors. Attachment for sewing-machines.....	554,373	Feb. 11	1019	236	74	709
Olson, Per, Saginaw, Mich. Sewing-machine attachment.....	567,652	Sept. 15	1612	387	76	1609
Olson, Tennis, Harlan, Iowa. Revolving show-rack.....	569,660	Oct. 20	1647	329	77	342
Olstad, Hans E., Sioux Falls, S. D. Tire-upsetting machine.....	559,197	Apr. 28	2997	723	75	616
Oltmanns, Hermann, Peoria, Ill. Flue-scraper.....	558,701	Apr. 21	2091	505	75	427
Omick, William K., assignor of one-half to W. Dufus, Pontiac, Mich. Air-brake.....	563,612	July 7	637	148	76	120
Omwake, John, Cincinnati, Ohio. Game apparatus.....	561,082	May 26	3132	732	75	1347
Omwake, John, Cincinnati, Ohio. Playing-card.....	563,295	June 30	3835	919	75	2175
Onderdonk, Charles S. (See Poulson, Joseph, assignor.)						
Onderdonk, Thomas W., New York, N. Y. Means for transmitting electrical energy.....	557,422	Mar. 31	3466	831	74	1850
Oneita Knitting Mills. (See Dunning, Augustus W., assignor.)						
Ongley, Charles E., assignor to G. J. Schoeffel, New York, N. Y. Electric time and signal recorder.....	554,083	Feb. 4	515	115	74	599
Ongley, Charles E., assignor to G. J. Schoeffel, New York, N. Y. Motor-controlling device.....	561,271	June 2	334	83, 84	75	1434
Ongley, Charles E., assignor to G. J. Schoeffel, New York, N. Y. Electrically-controlled steering device.....	561,272	June 2	337	84, 85	75	1434

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Ongley, Charles E., assignor to G. J. Schoeffel, New York, N. Y. Electrically-controlled boat-steering apparatus	563,304	July 7	119	29	76	25
Ongley, Charles E., assignor to G. J. Schoeffel, New York, N. Y. Valve-controlling device	570,045	Oct. 27	2324	551	77	478
Onstott, Sarah E., Chicago, Ill. Toaster	562,646	June 23	2761	671	75	1949
Opdyke, Stacy B., Jr., Philadelphia, Pa. Elevator signal apparatus	572,561	Dec. 8	822	197 198	77	1450
Opdyke, Stacy B., Jr., Philadelphia, Pa. Elevator signal mechanism	572,562	Dec. 8	827	198 199	77	1453
Opdyke, Stacy B., Jr., Philadelphia, Pa. Elevator signal apparatus	572,563	Dec. 8	833	199 200	77	1455
Oppenheimer, Louis K., Cincinnati, Ohio. System of electrical distribution	562,647	June 23	2762	671	75	1949
Oppel, Philip. (See Roney, Alexander B., assignor.)						
Oram, John M. (See McGrath and Oram.)						
Oram, John M., Dallas, Tex. Apparatus for protecting electrical circuits	552,542	Jan. 7	67	18	74	16
Ord, Charles E., South Brooklyn, Ohio. Drier	568,696	Sept. 29	3473	831	76	1985
Ordner, Louis L., Cleveland, Ohio. Attachment for sprinkler-nozzles	574,072	Dec. 29	3579	855	77	2021
Ordway, Oscar H., South Framingham, Mass. Wood or rattan twisting machine	556,203	Mar. 10	1284	300	74	1386
Orendorff, Oliver H., Bloomington, Ill. Fence-post	562,909	June 30	3249	784	75	2060
Orewiler, Benjamin F., Shelby, Ohio. Ribbon-fastener	562,648	June 23	2764	671	75	1950
Orford Copper Company. (See Thomson, Joseph L., assignor.)						
Orme, George L. (See Back, James S., assignor.)						
Ormerod, George C., Asbury Park, N. J. Bicycle canopy	562,091	June 16	1836	446	75	1759
Ormerod, John, Brooklyn, N. Y., assignor to American Soda Fountain Company, of New Jersey. Carbonating apparatus	552,543	Jan. 7	70	18, 19	74	16
Ormsby, John H., Bolton Landing, N. Y. Folding work-table	559,743	May 5	652	157	75	806
Ornatowski, William, Chicago, assignor of one-half to S. Berens, Downer's Grove, Ill. Portable extension-ladder	567,814	Sept. 15	1886	451 452	76	1661
Orr, Alfred, and A. W. Chapman, Charleston, Mo. Inhaler-mask	573,691	Dec. 22	2594	684	77	1881
Orr, Henry A., Bedford, England. Drying-tray	572,660	Dec. 8	1002	242	77	1489
Orr, Thomas J., assignor of two-thirds to R. M. Estill and J. Huber, Ladonia, Tex. Car-coupling	567,109	Sept. 1	666	155	76	1408
Orr, William, Trenton, N. J. Wire-cloth lathing	560,531	May 19	2155	492	75	1147
Orr, William, assignor to New Jersey Wire Cloth Company, Trenton, N. J. Loom for weaving wire fabric	563,613	July 7	639	148 149	76	130
Orr, William B. (See Brevard, Orr, and Sofge.)						
Orr, William T. (See Russell, Frank E., Jr., assignor.)						
Ort, Granville L., Home City, Ohio. Cider-press	562,969	June 30	3375	812	75	2089
Ortenblad, Magnus, Sandstone, assignor of one-half to C. J. Palmer, St. Paul, Minn. Nail-ing-hatchet	561,809	June 9	1337	320	75	1648
Orth, Christian F. L., New York, N. Y. Support for trolley-wheels	572,940	Dec. 8	1495	358	77	1585
Orth, John G. (See Frost, John V., assignor.)						
Ortman, James W., Gillivan, Ohio. End-gate	553,258	Jan. 21	1398	341 303 304 305	74	291
Ortmann, Ernst, assignor of one-half to G. G. Hennei, Milwaukee, Wis. Engine	554,532	Feb. 11	1293	303 304 305	74	761
Ortner, George J., Pueblo, Colo. Electric-battery element	561,810	June 9	1341	320	75	1648
Orton, Frederick, assignor of one-half to J. Richards, San Francisco, Cal. Centrifugal pump	564,897	July 23	2885	691	76	579
Orton, Lewis W., Bellevue, Tex. Wire-fence tool	572,272	Dec. 1	319	76	77	1340
Osborn, Ben A. (See Harding and Osborn.)						
Osborn, Byron E., Auburn, N. Y. Electric-railway system	556,516	Mar. 17	1901	442 443	74	1517
Osborn, Byron E., Auburn, N. Y. Electric-railway system	573,033	Dec. 15	1656	398	77	1633
Osborn, Elisha H., Des Moines, Iowa. Magnetic separator for threshing-machines	570,496	Nov. 3	110	27	77	658
Osborn, Walter A., New York, N. Y. Automatic air-pump for bicycles	556,552	Mar. 17	1954	456	74	1527
Osborne, Charles R., Danbury, Conn. Switch for street-car tracks	564,837	July 23	2787	663	76	560
Osborne, James P. (See Van Vleet and Osborne.)						
Osborne, James P., et al. (See Van Vleet and Hurd, assignors.)						
Osborne, John H., Anderson, Ind. Bolt-cutter	569,661	Oct. 20	1649	389	77	342
Osborne, John W., Washington, D. C. Surface treatment of movable type	553,312	Jan. 21	1502		74	309
Osborne, Loyall A., Newark, N. J. Railway-switch	557,338	Mar. 31	3312	796	74	1820
Osborne, Loyall A., Newark, N. J. Automatic switch	557,339	Mar. 31	3315	796 797	74	1820
Osburn, Henry C., Scio, Ohio. Automatic vehicle-brake	573,995	Dec. 29	3447	824 825	77	1997
Osgood, Charles E. and J. M. Lowell, Mass. Filter	574,161	Dec. 29	3743	894	77	2050
Osgood, Edward C., Waltham, Mass. Mechanism for transmitting motion with variable speed	568,367	Sept. 29	2864	688	76	1872
Osgood, John M. (See Osgood, Charles E. and J. M.)						
Osgood, Joseph H., Peabody, Mass. Receptacle for inking fluids	557,014	Mar. 24	2743	650	74	1692
Osgood, Richard P., assignor of one-third to E. E. and O. Ramsdell, Salem, Mass. Primary battery	562,019	June 16	1701	413	75	1736
Oshkosh Match Works. (See Wyman, William H., assignor.)						
Osment, William, London, England. Apparatus for producing raised panels and moldings on square balusters, &c.	569,029	Oct. 6	537	124	77	102
Oster, John, Jr., Newport, Ky. Filter	568,787	Oct. 6	132	32	77	27
Osterhaus, Frank H., New York, N. Y. Grain-car	571,841	Nov. 24	2507	593	77	1166
Östlund, Carl, and A. E. Malmström, Stockholm, Sweden. Wickless petroleum-burner	558,415	Apr. 14	1583	388	75	316
Ostrand, Willis H., Boston, Mass. Bicycle air-pump	554,084	Feb. 4	519	116	74	599
Osyor, David N., Newark, assignor to J. A. Jeffrey, Columbus, Ohio. Electric railway	558,303	Apr. 14	1394	340 341	75	281
Osyor, David N., assignor to J. A. Jeffrey, Columbus, Ohio. Splicing-clamp	574,260	Dec. 29	3965	942	77	2090
Otis Brothers & Company. (See Field, Stephen D., assignor.)						
Otis Brothers & Company. (See Hall, Milan W., assignor.)						
Otis Brothers & Company. (See Ihlder, John D., assignor.)						
Otis Brothers & Company. (See Otis and Smith, assignors.)						
Otis Brothers & Company. (See Smith, Rudolph C., assignor.)						
Otis, Charles, New York, N. Y. Pedal for bicycles	563,788	Aug. 11	1535	374	76	921
Otis, John C. (See Leightner, Joseph H., assignor.)						
Otis, Norton P., Yonkers, N. Y. Elevator	567,158	Sept. 8	760	177 178	76	1438
Otis, Norton P., and R. C. Smith, Yonkers, assignors to Otis Brothers & Company, New York, N. Y. Screw elevator	570,329	Oct. 27	2885	685	77	583
Ottersten, Carl G., Brooklyn, N. Y. Snow or dirt collecting and dumping machine	572,213	Dec. 1	209	51	77	1318
Otteason, John C., Brooklyn, N. Y. Hand-stamp	570,264	Oct. 27	2730	649	77	556

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Ottmyer, William F. (See Sample, George W., assignor.)						
Otto, Albert T., <i>et al.</i> (See Batty, Thomas, assignor.)						
Otto Gas Engine Works. (See Saltar, John, Jr., assignor.)						
Otto, Georg von, Blasewitz, Germany. Ice-velocipede	554,346	Feb. 11	980	227	74	701
Otto, Henry, Bloomington, Ill. Bicycle-leg	571,979	Nov. 24	2757	650	77	1214
Otto, Marius, and A. Verley, Courbevoie, France. Obtaining vanillin, &c.	553,039	Jan. 14	1000		74	901
Otto, Marius, and A. Verley, Courbevoie, France. Manufacture of vanillin	553,593	Jan. 28	1990	471	74	416
Otto, Marius, and A. Verley, Paris, France. Obtaining ether	562,193	June 16	2000		75	1791
Otto, Paul, Leipsic, Germany. Accumulating-brake	559,198	Apr. 28	2999	724 725	75	616
Otto, William E. H., Kansas City, Mo. Controlling mechanism for elevators	572,214	Dec. 1	211	51	77	1318
Outhouse, Thomas A., and A. E. Bohlen, Mount Olive, Ill. Hose-coupling	557,423	Mar. 31	3467	831	74	1850
Outhouse, Thomas A., assignor to himself, A. Bohler, and E. H. Meyer, Mount Olive, Ill. Angle-cock	571,201	Nov. 10	1394	326	77	926
Outram, John B., Urbana, assignor to S. Bufkin, Columbus, Ohio. Threshing-machine	569,298	Oct. 13	1004	240 241	77	207
Ouvrard, Frank A., Detroit, Mich. School-slate	552,584	Jan. 7	140	39	74	28
Ovenshire, Elijah A., assignor to American Harrow Company, Detroit, Mich. Planter	559,401	May 5	95	20, 21	75	699
Over, Ewald. (See Cook, Thomas R., assignor.)						
Over, Willis D., Bryan, Ohio. Baggage-truck	554,196	Feb. 4	713	162	74	636
Overend, William J. (See Burke, Francis H., assignor.)						
Oviatt, Solomon E., Lansing, Mich. Runner for vehicles	560,279	May 19	1729	393	75	1071
Ovre, Ole O., Godahl, Minn. Planter	568,270	Sept. 22	2696	646	76	1825
Owen, Benjamin, Dayton, Ohio. Car-coupling	565,025	Aug. 4	114	27	76	639
Owen, Carrie M. (See Siskron, Edward, assignor.)						
Owen, Deborah, Van Wert, Iowa. Skirt-protector	562,738	June 23	2924	709	75	1980
Owen, Frederick D., Washington, D. C. Rear-fork end for bicycles	553,313	Jan. 21	1504	361	74	309
Owen, Frederick D., Washington, D. C. Pedal for bicycles	553,685	Jan. 28	2142	407	74	443
Owen, Henry A., assignor to Whitin Machine Works, Whitinsville, Mass. Top-roll saddle for spinning-machines	570,765	Nov. 3	637	146	77	755
Owen, Henry A., assignor to Whitin Machine Works, Whitinsville, Mass. Spinning-machine	573,692	Dec. 22	2896	684	77	1881
Owen, John T., Sharon, Pa. Galvanizing-machine	556,204	Mar. 10	1286	301	74	1387
Owen, Oscar L., Whitinsville, Mass. Tongs	572,564	Dec. 8	837	201	77	1456
Owen, Robert L., Muscogee, Ind. Ter. Cotton-baling press	567,548	Sept. 8	1417	340 342	76	1555
Owen, Robert L., Muscogee, Ind. Ter. Gas-distributing apparatus	573,996	Dec. 29	3448	825	77	1997
Owen, Walter M. (See Leukart and Owen.)						
Owen, William, Petersham, New South Wales. Boot or shoe	570,814	Nov. 3	714	162	77	770
Owen, William, London, and W. K. Birkinshaw, Derby, England. Pick or similar tool	565,789	Aug. 11	1536	374	76	922
Owens, Harrison, Montesano, Wash. Folding chair	568,625	Sept. 29	3342	801	76	1960
Owens, James A. (See Williams, Louis, assignor.)						
Owens, Michael J., Toledo, Ohio. Mechanical glass-blower	570,879	Nov. 3	838	195 196	77	795
Owens, Thomas J. assignor of one-half to J. Cather, Bedford, Ind. Steam-pump	562,554	June 23	2598	630 631	75	1917
Owens, William A., Hannibal, Mo. Fence	560,364	May 19	1473	427	75	1096
Oyler, William R., Lima, Ohio. Plow	566,218	Aug. 18	2296	562	76	1086
Ozmun, Aaron M. (See Newton, Henry E., assignor.)						
P. F. Olds & Son. (See Olds and Bates, assignors.)						
P. H. & F. M. Roots Company. (See Wainwright and Johnston, assignors.)						
P. M. Bruner Granitoid Company. (See Bruner, Preston M., assignor.)						
P. P. Mast & Company. (See Dodson, Harry E., assignor.)						
Paalz, Anton, <i>et al.</i> (See Hoag, George E., assignor.)						
Paarmann, Hans J., Davenport, Iowa. Washing-machine	573,349	Dec. 15	2237	535	77	1739
Pabst Brewing Company. (See Theurer, Jacob F., assignor.)						
Pabst Brewing Company. (See Theurer and Fischer, assignors.)						
Pabst Brewing Company. (See Theurer and Mueller, assignors.)						
Pabst, Christian. (See Kihn and Reed, assignors.)						
Pacand, George H., Fall River, Mass. Car-coupling	557,283	Mar. 31	3223	773	74	1802
Pachner, Isaac, New York, N. Y. Cap	563,053	June 30	3504	841	75	2113
Pacific Elevator Company. (See Martin and Parkinson, assignors.)						
Pacific Elevator Company. (See Parkinson, John, assignor.)						
Pacific Elevator Company. (See Parkinson, Martin, and Bowen, assignors.)						
Pacific Labeling Company. (See Parkinson, Childers, Hanson, and Wakefield, assignors.)						
Packard, Granville F., Fort Wayne, Ind. Armature-core	557,869	Apr. 7	611	145	75	115
Packard, Granville F., Fort Wayne, Ind. Baby-walker	572,613	Dec. 8	927	224	77	1474
Packer, Charles T. (See Swift and Packer.)						
Packer, George W., Beech Creek, Pa. Nut-lock	555,396	Feb. 25	2833	667	74	1083
Packer, George W., Rock Falls, assignor to Keystone Manufacturing Company, Sterling, Ill. Feed shredder and chopper	553,314	Jan. 21	1506	361	74	310
Packer, George W., Rock Falls, assignor to Keystone Manufacturing Company, Sterling, Ill. Corn-sheller feed	553,315	Jan. 21	1507	361	74	310
Packer, George W., Rock Falls, assignor to Keystone Manufacturing Company, Sterling, Ill. Hay-loader	554,627	Feb. 11	1475	345	74	795
Packer, George W., Rock Falls, assignor to Keystone Manufacturing Company, Sterling, Ill. Shredder-head	562,092	June 16	1837	446	75	1759
Packham, Frank R., assignor to Superior Drill Company, Springfield, Ohio. Furrow-opener for seeding-machines	557,268	Apr. 7	609	145	75	115
Packham, Frank R., assignor to Superior Drill Company, Springfield, Ohio. Seeding-machine	570,265	Oct. 27	2732	649 650	77	556
Packwood, John W., Newark, N. J. Saw-set	554,721	Feb. 18	1624	383	74	841
Padberg, Franz, and C. Hummel, New York, N. Y. Car-fender	557,316	Mar. 31	3279	786	74	1812
Paden, Samuel K., Pulaski, Pa. Fifth-wheel	566,615	Aug. 25	2992	730	76	1234
Padgett, George W., and G. Hendryx, Bloomington, Ill. Automatic pumping apparatus	554,950	Feb. 18	2023	479	74	915
Padgitt, Jesse D. (See Padgitt, William C. and J. D.)						
Padgitt, William C. and J. D., Dallas, Tex. Riding-saddle	569,199	Apr. 28	3002	725 726	75	617
Paffrath, Gustav, Solingen, Germany. Pocket-knife	563,305	July 7	123	29	76	26
Page, Albert A. (See Sargent and Page.)						
Page, Albert A., assignor to Sargent & Company, New Haven, Conn. Sash-fastener	556,368	Mar. 17	1617	378	74	1464
Page, Caleb D., Chicago, Ill. Dumping-car	559,402	May 5	97	21	75	699
Page, Charles E., assignor of three-fifths to C. A. Freeman, Denver, Colo. Bicycle-saddle	571,388	Nov. 17	1708	406	77	999

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Page, Charles G. (See Bunnell and Page.)						
Page, Frank R., Montvale, N. J. Automatic block-signal system for railways	558,097	Apr. 14	1060	{ 260 261 529 530	75	217
Page, John F., Chewacla, Ala. Electric-railway system	553,736	Jan. 28	2236	781	74	461
Page, Levi H., Chicago, Ill. Electric-arc lamp	573,911	Dec. 29	3273	781	77	1967
Page, Plummer S. (See Brooks, Hallstead, and Page.)						
Page, Plummer S. (See Gartner, Alfred, assignor.)						
Page, Plummer S., <i>et al.</i> (See Brooks, Charles B., assignor.)						
Page, Plummer S., <i>et al.</i> (See Walker, Joseph, assignor.)						
Page, William C., assignor of two-thirds to W. L. Bain and W. R. Bushby, Pueblo, Colo. Emergency-vault for banks	567,110	Sept. 1	667	156	76	1408
Page, William H., Basic City, Va. Heating apparatus	559,307	Apr. 28	3194	772	75	651
Pagliughi, John and J. A., New York, N. Y., and F. De Canio, Union Hill, N. J. Clothes-line support	554,347	Feb. 11	980	227	74	701
Pagliughi, Joseph A. (See Pagliughi and De Canio.)						
Paice, Alexander, Stroud, England, assignor to A. J. Mason, Jr., Worcester, Mass. Folding chair	564,312	July 21	1891	447	76	380
Paige, George W., assignor to S. K. Paige, Hopkinton, and K. D. Pierce, Hillsborough, N. H. Vegetable-fork	557,016	Mar. 24	2746	651	74	1693
Paige, James H., assignor to J. W. Center and S. C. Kennard, Manchester, N. H. Picker mechanism for looms	571,729	Nov. 17	2287	548	77	1106
Paige, James W., Chicago, Ill. Pneumatic tire	562,650	June 23	2766	672	75	1950
Paige, Sam. K., <i>et al.</i> (See Paige, George W., assignor.)						
Paige, Sam. K., <i>et al.</i> (See Pease, Charles, assignor.)						
Pain, Robert W. (See Tremaine and Pain.)						
Pain, Robert W., New York, N. Y. Musical instrument	558,562	Apr. 21	1839	{ 447 448	75	382
Painchaud, Ludger, Salem, Mass. Loom-temple	571,886	Nov. 24	2590	614	77	1182
Paine, Charles S., Grand Rapids, Mich. Spring-seat	553,762	Jan. 28	2277	539	74	469
Paine, Sumner E., Orwell, Ohio. Table	561,273	June 2	339	85	75	1435
Painter, Arthur, San Francisco, assignor to H. M. Barstow, Napa, Cal. Clip for wire-rope ways	569,228	Oct. 13	884	210	77	184
Painter, Gwynne E., Baltimore, Md. Automatic electric indicator system	559,038	Apr. 28	2670	{ 650 651	75	553
Painter, Gwynne E., Baltimore, Md. Electrical signaling apparatus	559,039	Apr. 28	2674	{ 652 653	75	554
Palencsar, Andor, and T. Fischer, Buda-Pesth, Austria-Hungary. Belt-stretching machine.	554,085	Feb. 4	521	116	74	600
Palethorpe, James A., Liverpool, England. Humidifying apparatus	553,259	Jan. 21	1400	341	74	290
Paley, George, <i>et al.</i> (See Stevenson, John, assignor.)						
Pálffy, Andros, Buda-Pesth, Austria-Hungary. Station-indicator for railways	573,350	Dec. 15	2238	{ 535 536	77	1739
Palica, Frank J., Racine, Wis. Telescopie trunk	554,298	Feb. 11	900	208	74	687
Palica, Frank J., Racine, Wis. Trunk	572,714	Dec. 8	1107	{ 268 269	77	1508
Palleschitz, John, assignor of one-half to J. Geldbach, St. Louis, Mo. Spoke-turning machine	553,720	Jan. 28	2206	523	74	456
Palm, George, Butler, Pa. Apparatus for jarring casings in Artesian wells	563,054	June 30	3505	842	75	2113
Palm, George, Butler, Pa. Sand-pump	563,055	June 30	3507	842	75	2114
Palm, George, assignor of one-half to M. H. Brooks, Butler, Pa. Gas or oil burner	556,104	Mar. 10	1097	261	74	1352
Palmer, Arthur, assignor of one-half to G. G. O'Brien, Pittsburg, Pa. Display-sign	556,276	Mar. 10	1447	338	74	1416
Palmer, Benjamin F., <i>et al.</i> (See Milner, George, assignor.)						
Palmer, Charles J. (See Ortenblad, Magnus, assignor.)						
Palmer, Charles O., Cleveland, Ohio. Mining-machine	557,340	Mar. 31	3318	{ 797 798	74	1821
Palmer, Ellen M. (See Palmer, Seymour C., assignor.)						
Palmer, Frank A., Brooklyn, N. Y. Jar-closure	573,693	Dec. 22	2897	684	77	1881
Palmer, Frank H. (See Kribs, Anthony, assignor.)						
Palmer, Frank H., Brooklyn, N. Y. Jar-clamp	567,502	Sept. 8	1352	325	76	1543
Palmer, Frank H., Brooklyn, N. Y. Sheet-metal can	572,818	Dec. 8	1289	310	77	1542
Palmer, Franklin G., Philadelphia, Pa. Vapor-stove	563,982	July 14	1311	{ 305 306	76	259
Palmer, Frederick S., Boston, Mass. Book-cover	553,963	Feb. 4	294	65	74	558
Palmer, George W. (See Butler, Maguler, assignor.)						
Palmer, Harry R., Norfolk, Va. Arc-lamp clutch	567,355	Sept. 8	1119	269	76	1500
Palmer, Harry R., Norfolk, Va. Electric-arc lamp	571,137	Nov. 10	1300	302	77	907
Palmer, Harvey. (See Caldwell, Frank H., assignor.)						
Palmer, Henry U., Brooklyn, N. Y. Barrel-hooping machine	573,159	Dec. 15	1882	453	77	1675
Palmer, Isaac E., Middletown, Conn. Hammock-supporting hook	556,475	Mar. 17	1810	421	74	1501
Palmer, Isaac E., Middletown, Conn. Apparatus for winding thread on spools	562,651	June 23	2767	672	75	1950
Palmer, Isaac E., Middletown, Conn. Hammock-supporting hook	567,280	Sept. 8	969	230	76	1474
Palmer, Isaac E., Middletown, Conn. Let-off mechanism for looms	573,160	Dec. 15	1884	454	77	1675
Palmer, Isaac E., Middletown, Conn. Seat attachment for hammocks	574,073	Dec. 29	3580	855	77	2021
Palmer, James, Moorhead, Minn. Potato-digging machine	559,864	May 12	943	211	75	874
Palmer, John. (See Palmer, Joseph and J.)						
Palmer, John M., Marysville, Mont. Wrench	558,304	Apr. 14	1398	341	75	282
Palmer, John M., Marysville, Mont. Tongs for turning pipes	561,274	June 2	340	86	75	1435
Palmer, John S., Providence, R. I. Means for squaring edges of and finishing finger-rings.	572,442	Dec. 1	627	148	77	1397
Palmer, Joseph, Aurora, and J. Palmer, Chicago, Ill. Folding table	569,514	Oct. 13	1372	322	77	275
Palmer, Loran L., Toronto, Canada. Pupillometer and bridge-measure	557,220	Mar. 31	3102	744	74	1781
Palmer, Maro V., Willimantic, assignor to Willimantic Linen Company, Hartford, Conn. Stop-motion for winding spindles	564,218	July 21	1734	{ 405 406	76	352
Palmer, Orsin L. (See Langton, James H., assignor.)						
Palmer, Reuben T., Jr., and F. W. Mercer, assignors to R. T. Palmer Company, New London, Conn. Fabric-cutting machine	564,026	July 14	1381	{ 321 322	76	272
Palmer, Roscoe A., Boston, assignor to A. J. Tower, trustee, Brookline, Mass. Controlling mechanism for locks	559,308	Apr. 28	3196	772	75	651
Palmer, Seymour C., assignor to E. M. Palmer, South Norwalk, Conn. Hat-sizing machine.	565,498	Aug. 11	1030	{ 247 248	76	826
Palmer, William A., Mobile, Ala. Bottle-stopper	556,205	Mar. 10	1287	301	74	1387
Palmer, Wilford L., Washington, D. C. Can-opener	569,932	Oct. 20	2124	505	77	428
Palmetter, James H. (See Tuttle, Merritt L., assignor.)						
Palmetto Fibre Company. (See Young, McClintock, assignor.)						
Palms, George H., Greenwood, Wis. Spring-bumper for sawing-machines	562,093	June 16	1838	447	75	1760

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Pancoast, George E., New York, N. Y. Storage and delivery system.....	571,389	Nov. 17	1709	406	77	999
Pangle, G. W. (See Blackmore, John E., assignor.)						
Pankhurst, John F., Cleveland, Ohio. Plate conveying and hoisting buggy.....	567,001	Sept. 1	475	110	76	1371
Panoff, Meyer, Brooklyn, N. Y. Hat or cap.....	573,614	Dec. 22	2731	649	77	1851
Paolucci, Henry E., San Marcos, assignor of one-half to M. Weiss, Hays county, Tex. Cotton loading and weighing device.....	552,617	Jan. 7	196	55	74	39
Pape, Ernst, Portland, Oreg. Pencil-case.....	557,599	Apr. 7	126	33	75	25
Papke, Godfrey W., Echo, Minn. Threshing-machine.....	573,479	Dec. 22	2503	593	77	1806
Paponschek, Anton. (See Woychinske, Paponschek, and Lennig.)						
Paquet, John. (See Waldron and Paquet.)						
Paquette, Octave, assignor of one-half to A. F., P. T., and J. C. Stoughton, Whitefield, N. H. Nut.....	561,913	June 9	1514	366	75	1681
Paradice, Frank H., Denver, Colo. Specification-book.....	565,120	Aug. 4	302	71	76	673
Paramore, Edward C., Philadelphia, Pa. Telephone switch and support.....	557,284	Mar. 31	3225	774	74	1802
Parbel, Jacob. (See Parbel, Joseph, assignor.)						
Parbel, Joseph, assignor of one-half to J. Parbel, Grand Rapids, Mich. Bang.....	571,842	Nov. 24	2507	594	77	1166
Parcelle, Albert L., Boston, Mass. Dynamo-electric machine.....	563,940	July 14	1237	289	76	245
Parcells, Henry A., Delta, Colo. Shuffle-hoe.....	568,143	Sept. 22	2491	599	76	1786
Pardee, George W., and B. McAleese, Hoboken, N. J. Window-guard.....	570,713	Nov. 3	543	126	77	739
Pare, Frederick W. (See Challands, Pare, and Smith.)						
Parelius, Martin W. (See Lambert, Henry M., assignor.)						
Parent, John, Brunswick, Me. Fifth-wheel.....	554,533	Feb. 11	1297	305	74	761
Parent, John, Brunswick, Me. Wagon-gear.....	554,534	Feb. 11	1298	305	74	762
Parini, Giovanni C., Liverpool, England. Propeller for navigable vessels.....	553,131	Jan. 14	1169	284	74	234
Paris Tool Manufacturing Company. (See Houghton, William, assignor.)						
Parisen, William R., Paterson, N. Y. Oil-tank.....	560,105	May 12	1400	315	75	961
Parish, Fred R., Reading, N. Y. Plow-beam.....	568,457	Sept. 29	3017	725	76	1901
Parisher, Lemuel A., Shreveport, La. Lumber-drier.....	564,639	July 28	2458	578	76	501
Park, Albert J., Worcester, Mass. Seal-press.....	553,132	Jan. 14	1170	284	74	235
Park, Boice, Roanoke, Ala. Plow attachment.....	558,098	Apr. 14	1062	261	75	217
Park, Charles S., Montague, Mass. Car-coupling.....	567,770	Sept. 15	1799	431	76	1644
Park, Harvey S., Chicago, Ill. Fluid-pressure brake.....	554,086	Feb. 4	522	117	74	600
Park, Harvey S., assignor to A. H. Loeb, Chicago, Ill. Fluid-pressure brake.....	555,877	Mar. 3	659	158	74	1251
Park, Harvey S., Chicago, Ill., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake.....	561,811	June 9	1342	321	75	1648
Park, Harvey S., assignor, by mesne assignments, to Chicago Brake and Manufacturing Company, Chicago, Ill. Fluid-pressure brake.....	573,790	Dec. 22	3047	722	77	1910
Park, James A., Lansing, Mich. Fence-machine.....	558,514	Apr. 21	1773	430 432	75	369
Park, John W., Goshen, Ind. Adjustable brace for windmill-towers.....	562,971	June 30	3378	812	75	2089
Parke, John H., et al. (See McClellan, Oscar D., assignor.)						
Parke, Robert A., New Brighton, N. Y., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake apparatus.....	553,475	Jan. 21	1768	422	74	359
Parke, Robert A., New Brighton, N. Y., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake.....	562,773	June 23	2980	722 723	75	1992
Parke, Samuel P. (See Dates, John H., assignor.)						
Parker, Adelaide V., Petersburg, Ky. Dust-pan.....	567,357	Sept. 8	1121	269	76	1501
Parker, Charles, Monroeville, Ohio. Car-coupling.....	561,237	June 2	278	70	75	1421
Parker, Charles, Monroeville, Ohio. Street-car rail.....	566,012	Aug. 18	1962	475	76	1024
Parker, Clarence L., Los Angeles, Cal. Animal-trap.....	563,682	July 7	751	177	76	141
Parker, Cora I. (See Dyer, Charles E., assignor.)						
Parker, Daniel, Penfield, Ill. Attachment for cultivators.....	554,087	Feb. 4	525	117	74	600
Parker, Elisha J., Dallas, Tex. Propeller-wheel.....	573,351	Dec. 15	2240	536	77	1739
Parker, Erastus N., Springfield, Mass. Tweezers.....	561,176	June 2	190	47	75	1403
Parker, George, et al. (See Anderson, Andrew, assignor.)						
Parker, George, Whiting, Ind. Pump-valve.....	569,884	Oct. 20	2042	486	77	412
Parker, George H. and J. G., Woodland, N. C. Cultivator.....	556,277	Mar. 10	1447	338	74	1417
Parker, George W., Minneapolis, Minn. Hinge for blinds.....	553,931	Feb. 4	211	52	74	550
Parker, George W., Bainbridge, N. Y. Spring-motor.....	570,266	Oct. 27	2733	650	77	556
Parker, George W., and E. L. Todd, New York, N. Y. Copy-holder.....	553,292	Jan. 21	1472	354	74	303
Parker, Harry L., Princeton, Ill. Gas-engine.....	560,920	May 26	2907	666	75	1304
Parker, Henry A. (See Woodward, Alonzo S., assignor.)						
Parker, Howard. (See Fairbanks and Parker.)						
Parker, James A. (See Morris and Parker.)						
Parker, James J., Fulton, and T. C. Dexter, Pearl River, assignors to Dexter Folder Company, New York, N. Y. Paper-registering instrument.....	567,356	Sept. 8	1119	269	76	1501
Parker, James M., McAdenville, N. C. Spinning-frame saddle.....	553,815	Jan. 28	2361	562	74	485
Parker, John, assignor of one-half to P. H. Morris, Philadelphia, Pa. Bevel-gear bicycle.	561,516	June 2	804	196	75	1522
Parker, John E., assignor to F. W. Morgan and R. Wright, Chicago, Ill. Sand-blast apparatus for cleaning molds.....	554,299	Feb. 11	902	208	74	687
Parker, John E., assignor to F. W. Morgan and R. Wright, Chicago, Ill. Sand-blast apparatus for cleaning molds.....	554,300	Feb. 11	904	208	74	687
Parker, John F., Portland, Me. Window.....	555,261	Feb. 25	2595	609	74	1037
Parker, John F., and C. M. Bennett, Portland, Me. Bench-vise.....	572,367	Dec. 1	499	117	77	1373
Parker, John G. (See Parker, George H. and J. G.)						
Parker, John W., Atlanta, Ga. Car-door.....	564,157	July 14	1639	383	76	320
Parker, Justus W., Philadelphia, Pa. Steam-separator.....	557,221	Mar. 31	3103	744	74	1781
Parker, Leonard, New York, N. Y. Lubricator.....	562,740	June 23	2925	710	75	1980
Parker, Robert, Philadelphia, Pa. Coffee-pot, &c.....	558,515	Apr. 21	1778	432	75	370
Parker, Robert C. (See Newhall, Walter W., assignor.)						
Parker, Robert L., assignor of one-half to W. B. W. Hendrick, Texas, Ga. Car-coupling.....	562,849	June 30	3139	760	75	2039
Parker, Russell, Brooklyn, N. Y. Bulb for atomizers.....	564,390	July 21	2030	476	76	405
Parker, Russell, and B. F. Sutton, Brooklyn, N. Y. Machine for corrugating sheets of rubber or the like.....	560,365	May 19	1874	427 428	75	1096
Parker, Sewell M., Robbinsdale, Minn. Cow-stable appliance.....	568,788	Oct. 6	132	32	77	27
Parker, Sewell M., and C. E. Smock, Minneapolis, Minn.; said Smock assignor to said Parker. Cow-stable appliance.....	553,213	Jan. 14	1319	320	74	261
Parker, Stearns & Sutton. (See Sutton, Benjamin F., assignor.)						
Parker, Theodore R., Binghamton, N. Y. Grain-door for grain-cars.....	570,950	Nov. 10	965	224	77	847
Parker, Thomas T., Cincinnati, Ohio. Feed-water heater and purifier.....	566,219	Aug. 18	2298	562	76	1026
Parker, William D. (See White and Parker.)						
Parker, William D., assignor of three-fourths to E. H. White, Meriden, Conn. Automatic piano.....	560,303	May 19	1768	402 403 404	75	1077

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Parker, William H., West, Tex. Animal-poke	568,873	Oct. 6	277	64	77	53
Parker, William E., York, assignor to E. W. Loucks, York county, Pa. Fence-tie	557,870	Apr. 7	612	146	75	116
Parker, William S., assignor of two-thirds to O. Bergstrom and R. M. Armstrong, Austin, Tex. Culvert	567,653	Sept. 15	1613	{ 387 388 }	76	1609
Parker, William T., <i>et al.</i> (See Paxson, Charles H., assignor.)						
Parker, William V., Paris, Ky. Umbrella show-case	566,091	Aug. 18	2083	{ 507 508 }	76	1045
Parkes, William T. J., London, England. Book-holder	563,056	June 30	3508	{ 842 843 }	75	2114
Parkhurst, Edward B., Woburn, Mass. Gearing for elevators	571,864	Nov. 24	2546	603	77	1174
Parkhurst, Edward B., Woburn, Mass. Upright-boiler furnace	573,912	Dec. 29	3274	{ 781 782 }	77	1967
Parkhurst, Edward B., Woburn, assignor to Complete Combustion Company, Boston, Mass. Steam-boiler	557,424	Mar. 31	3469	{ 831 832 833 834 }	74	1850
Parkin, Charles H. (See Burnap, Charles F., assignor.)						
Parkinson Elevator Company. (See Parkinson, John, assignor.)						
Parkinson, John. (See Martin and Parkinson.)						
Parkinson, John, assignor to Pacific Elevator Company, Los Angeles, Cal. Safety-elevator	556,434	Mar. 17	1744	{ 405 406 }	74	1489
Parkinson, John, Los Angeles, Cal., assignor, by mesne assignments, to Parkinson Elevator Company, Los Angeles, Cal., and Phoenix, Ariz. Ter. Combined electric hydraulic elevator	569,933	Oct. 20	2126	{ 505 506 }	77	428
Parkinson, John, Los Angeles, Cal., assignor, by mesne assignments, to Parkinson Elevator Company, Los Angeles, Cal., and Phoenix, Ariz. Ter. Combined electric hydraulic elevator	569,934	Oct. 20	2131	{ 506 507 }	77	429
Parkinson, John, Los Angeles, Cal., assignor, by mesne assignments, to Parkinson Elevator Company, Los Angeles, Cal., and Phoenix, Ariz. Ter. Combined electric hydraulic elevator	571,730	Nov. 17	2288	{ 549 550 }	77	1106
Parkinson, John, Los Angeles, Cal., assignor, by mesne assignments, to Parkinson Elevator Company, Los Angeles, Cal., and Phoenix, Ariz. Ter. Combined electric hydraulic screw-controlled elevator-engine	571,731	Nov. 17	2299	{ 550 551 }	77	1108
Parkinson, John, Los Angeles, Cal., assignor, by mesne assignments, to Parkinson Elevator Company, Los Angeles, Cal., and Phoenix, Ariz. Ter. Combined electric hydraulic elevator	571,732	Nov. 17	2304	{ 551 552 }	77	1109
Parkinson, John, T. M. Martin, and C. C. Bowen, assignors to Pacific Elevator Company, Los Angeles, Cal. Electric elevator	556,435	Mar. 17	1747	406	74	1489
Parkinson, Richard, W. L. Childers, R. Hanson, and J. Wakefield, Crescent City, assignors to Pacific Labeling Company, San Francisco, Cal. Can-labeling machine	556,022	Mar. 10	940	224	74	1324
Parks, David A., <i>et al.</i> (See Richard, William, assignor.)						
Parks, Dewey R., assignor to G. A. Potts and J. Ellsworth, Saranac, Mich. Stovepipe-holder	560,532	May 19	2156	493	75	1147
Parks, Frank E., Homestead, Pa. Manufacture of steel ingots	564,219	July 21	1735	.....	76	352
Parks, Joseph E. (See Pierce and Parks.)						
Parks, Lewis F., Cincinnati, Ohio. Combination woodworking-machine	557,922	Mar. 31	3104	744	74	1781
Parks, Samuel, New York, N. Y. Draft-bar for vehicles	562,970	June 30	3377	812	75	2089
Parks, Samuel R., Pawtucket, R. I. Plumber's vise	568,543	Sept. 29	3189	768	76	1931
Parlin & Orendorf Company. (See Fuller, William C., assignor.)						
Parmenter, George A., Cambridge, Mass. Life-guard for street-cars	558,659	Apr. 21	2012	487	75	412
Parmenter, James S., Woodstock, Canada. Inkstand	557,425	Mar. 31	3471	832	74	1851
Parmer, Horace, <i>et al.</i> (See Cazier, Perry H., assignor.)						
Parmlay, George W., Shamokin, Pa. Means for supporting and handling potted plants	559,200	Apr. 28	3003	726	75	617
Parpart, Otto, assignor to Standard Tool Company, Cleveland, Ohio. Machine for cutting grooves in twist-drills	558,205	Apr. 14	1230	{ 299 300 }	75	249
Parpert, Hermann, St. Louis, Mo. Car-fender	554,301	Feb. 11	905	209	74	688
Parr, Florencé R., and R. E. Avery, San Francisco, Cal. Carbureter	559,341	Apr. 28	3262	788	75	663
Parradee, George P., Buffalo, N. Y. Photographic camera	564,838	July 28	2789	{ 663 664 }	76	560
Parramore, Reddin W., Asbury Park, N. J. Garment-clasp	561,238	June 2	279	70	75	1421
Parramore, Reddin W., Asbury Park, N. J. Garment-supporter	567,195	Sept. 8	808	191	76	1447
Parratt, William. (See Whalley, Clogg, Benson, Parratt, and Robinson.)						
Parrett, William, Galena, Ill. Antifreezing steam-heater	555,223	Feb. 25	2525	595	74	1024
Parrish, Alonzo, assignor of one-half to W. M. Weakley, Millersport, Ohio. Gate	566,616	Aug. 25	2994	731	76	1234
Parrish, Charles A., Jackson, Mich. Electric signal for street-car crossings	570,046	Oct. 27	2325	551	77	478
Parrish, Homer A., Jackson, Mich. Electric trolley-railway signal	569,424	Oct. 13	1217	286	77	247
Parrish, Rob Roy, Portland, Oreg. Washstand appliance	561,025	May 26	3070	708	75	1335
Parrish, Rob Roy, Portland, Oreg. Lavatory	561,026	May 26	3071	708	75	1335
Parrish, Rob Roy, Portland, Oreg. Lavatory appliance	561,027	May 26	3074	{ 708 709 }	75	1336
Parrish, Rob Roy, Independence, Oreg. Hop-twinning mechanism	566,092	Aug. 18	2084	508	76	1046
Parrish, Thomas K., Richmond, Va. Wooden vessel	563,653	July 7	752	177	76	142
Parrish, William N., Richmond, Ind. Loom for weaving wire fencing	562,094	June 16	1839	447	75	1760
Parry, Edward G., assignor to Forehand Arms Company, Worcester, Mass. Ejecting mechanism for breakdown guns	554,002	Feb. 4	366	80	74	572
Parrell, Orlando W., Flushing, Mich. Weighing-truck	566,931	Sept. 1	338	79	76	1347
Parshall, Charles H., Chicago, Ill. Valve-gear for expansion-engines	556,897	Mar. 24	2530	596	74	1652
Parshall, Horace F., London, England, assignor to General Electric Company, of New York. Automatic cut-out	567,608	Sept. 15	1531	368	76	1592
Pariseau, George M., St. Cloud, Minn. Belt-stretcher	553,788	Jan. 28	2310	548	74	476
Parson, Charles E., <i>et al.</i> (See Parson, Edward A., assignor.)						
Parson, Edward A., assignor of two-thirds to C. E. and G. W. Parson, Ottawa, Canada. Bicycle-lock	555,878	Mar. 3	664	{ 158 159 }	74	1252
Parson, George W., <i>et al.</i> (See Parson, Edward A., assignor.)						
Parson, Henry E., Brooklyn, N. Y. Steam-blower	573,480	Dec. 22	2505	594	77	1806
Parsons, Arthur H. (See Parsons, Frederick W. and E. F., assignors.)						
Parsons, Calvin W. (See Hitchner, Chester W., assignor.)						
Parsons, Calvin W., Scranton, Pa. Drive-chain and sprocket-wheel	562,739	June 23	2924	710	75	1980
Parsons, Calvin W., assignor of one-half to T. J. Foster, Scranton, Pa. Screen and separator for coal, &c.	566,793	Sept. 1	96	24	76	1298
Parsons, Charles A., Newcastle-upon-Tyne, England. Turbine motor	553,658	Jan. 28	2102	497	74	435
Parsons, Charles A., Newcastle-upon-Tyne, England. Steam-turbine	553,659	Jan. 28	2102	497	74	435
Parsons, Charles A., Newcastle-upon-Tyne, England. Steam-turbine	553,932	Feb. 4	243	52	74	550

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Parsons, Ernest P. (See Parsons, Frederick W. and E. P.)						
Parsons, Francis W. (See Pitkethly, Alexander, assignor.)						
Parsons, Frank, Montgomery, Miss. Grinding-machine	570,766	Nov. 3	639	146	77	755
Parsons, Frederick W. and E. P., assignors of one-third to A. H. Parsons, Cleveland, Ohio. Clamping or securing device	555,879	Mar. 3	665	159	74	1253
Parsons, George H., St. Louis, Mo. Gas-burner	559,201	Apr. 28	3004	726	75	617
Parsons, George M., Carson City, Nev. Sky-light fastener and raiser	568,271	Sept. 22	2698	646	76	1826
Parsons, Winslow R. (See Morse and Parsons.)						
Parthier, Friedrich, Chicago, Ill. Basket	571,452	Nov. 17	1810	432	77	1018
Partington, Charles, Newport, Ky., assignor to Weir Frog Company, Cincinnati, Ohio. Electromotor-magnet	574,215	Dec. 29	3886	925	77	2075
Partridge, Jasper A., Saylesville, R. I. Stove-leg	554,832	Feb. 18	1819	426	74	879
Partridge, Lyman H. (See Thorn and Austin, assignors.)						
Parvin, John G., London, England. Lime-light apparatus	553,070	Jan. 14	1066	260	74	213
Pascault, André M., and J. F. M. H. de Coursac, Vivonne, France. Water-wheel	570,951	Nov. 10	966	224	77	847
Paschen, Frederick, Tampa, Fla. Oyster-tongs	552,772	Jan. 7	494	122	74	93
Paschen, Frederick, Tampa, Fla., assignor of one-half to H. S. Friedman, Philadelphia, Pa. Oyster-tongs	567,791	Sept. 15	1832	439	76	1651
Pass, James, and A. P. Seymour, Syracuse, N. Y. Socket for incandescent electric lamps	568,919	Oct. 6	341	79	77	65
Patch, Fred R., Rutland, Vt. Planing or molding machine	572,443	Dec. 1	629	149	77	1397
Patchen, Nancy M. (See Strobel and Cone, assignors.)						
Patchett Brothers. (See Deiss, Joseph, assignor.)						
Patek, Alfred, New York, N. Y. Printing-plate and producing same	564,290	July 21	1858	435	76	374
Patent Title Company. (See Peck, Orrin B., assignor.)						
Patent Shoe Pull Company. (See Müller, Gustave, assignor.)						
Patent Weldless Steel Chain and Cable Company. (See Rongier, Hippolyte, assignor.)						
Paterson, Edward J., et al. (See Hermite, Eugene, assignor.)						
Paterson, William, Glasgow, Scotland. Door for fire-engine stations	558,416	Apr. 14	1589	388	75	316
Pateson, Henry. (See McQuillan, Charles, assignor.)						
Patin, Octave, and L. Levavasseur, Paris, France. Dynamo-electric machine or electric motor	560,006	May 12	1204	267	75	924
Patric, Charles E., assignor to Superior Drill Company, Springfield, Ohio. Seeding-machine	554,302	Feb. 11	906	209	74	688
Patric, Charles E., assignor to Superior Drill Company, Springfield, Ohio. Fertilizer-distributor	564,391	July 21	2030	476	76	405
Patrick, Albert T., New York, N. Y. Lock for stop-cocks	566,932	Sept. 1	340	79	76	1347
Patrick, Horatio N., et al. (See Walker, Joseph, assignor.)						
Patrick, John, Baxter Springs, Kans. Checkrein attachment	553,214	Jan. 14	1320	320	74	262
Patrick, Thomas W., New York, N. Y. Toy or puzzle	570,047	Oct. 27	2327	552	77	478
Patten, James S., Baltimore, Md. Shutter-worker	568,544	Sept. 29	3190	769	76	1931
Patten, James S., Baltimore, Md., assignor to Patten Self-Oiling Axle and Journal Company of Baltimore City. Car-axle lubricator	557,871	Apr. 7	613	146	75	116
Patten, James S., assignor to Patten Self-Oiling Axle and Journal Company of Baltimore City, Baltimore, Md. Car-axle-box lubricator	559,787	May 5	752	181	75	824
Patten Self-Oiling Axle and Journal Company of Baltimore City. (See Patten, James S., assignor.)						
Patterson, Benjamin. (See Tirmann, Hugo, assignor.)						
Patterson, Cary P. (See Shafer, John W., assignor.)						
Patterson, David R. W. (See Peck and Patterson.)						
Patterson, Edward, Oakland, Cal., and W. Patterson, Scranton, Pa. Mining-machine	570,330	Oct. 27	2888	686	77	584
Patterson, Helen. (See Patterson, William H., assignor.)						
Patterson, Hugh, et al. (See Schwarzmans, John, assignor.)						
Patterson, James, assignor of one-half to J. R. Sandilands, Glasgow, Scotland. Apparatus for treating fire-gases evolved in steam-boilers, &c.	572,176	Dec. 1	143	34, 35	77	1305
Patterson, James, Gourcock, assignor of one-half to J. R. Sandilands, Glasgow, Scotland. Apparatus for treating fire-gases	572,177	Dec. 1	145	36	77	1305
Patterson, James, Gourcock, assignor of one-half to J. R. Sandilands, Glasgow, Scotland. Blower for treating gases evolved in furnaces	572,178	Dec. 1	147	36	77	1305
Patterson, James H., Martinsville, Ind. Badge-button	566,617	Aug. 25	2995	731	76	1234
Patterson, John M., La Fayette, Ga. Screw pulverizer or harrow	563,057	June 30	3509	843	75	2114
Patterson, John R., Mosca, Colo. Cot or bed frame	556,833	Mar. 24	2419	568	74	1631
Patterson, Lorenzo D., et al. (See Gilmore, Benton, assignor.)						
Patterson, Milton, Washington, D. C., assignor to R. H. Pollock, Baltimore, Md., and J. F. Bucher, Hanover, Pa. Ironing-board	566,276	Aug. 18	2377	582	76	1101
Patterson, Nicholas C., Junction City, Tex. Seal for vessels containing liquids	561,812	June 9	1346	321	75	1649
Patterson, Pressly C., Cambridge, Ohio. Metallic roofing, siding, &c.	556,206	Mar. 10	1289	301	74	1387
Patterson, Pressly C., Cambridge, Ohio. Metallic roofing	556,207	Mar. 10	1290	302	74	1387
Patterson, Rolland C. (See Woodlan, Samuel W., assignor.)						
Patterson, Samuel H., New York, N. Y. Bicycle-lock	557,223	Mar. 31	3107	745	74	1781
Patterson, Warren A. (See Tension, John S., assignor.)						
Patterson, Warren A., Waco, Tex. Storage-condenser and lint-cotton conveyer	561,689	June 9	1118	266	75	1606
Patterson, Warren A., Waco, Tex. Storage-condenser and lint-cotton conveyer	562,338	June 16	2248	545	75	1837
Patterson, Warren A., Waco, Tex. Cotton-cleaning and bat-forming apparatus	563,719	July 7	813	194	76	152
Patterson, William. (See Patterson, Edward and W.)						
Patterson, William H., assignor to H. Patterson, Cuyahoga Falls, Ohio. Machine for making paper bags	571,603	Nov. 17	2073	497	77	1065
Patterson, William J., Beaver Falls, Pa. Chain-link	556,639	Mar. 17	2086	438	74	1552
Patterson, William J., and E. W. Heyl, Pittsburg, Pa., assignors to J. A. Jeffrey, Columbus, Ohio. Portable elevator	573,913	Dec. 29	3276	783	77	1967
Patterson, William M. (See Lockwood and Patterson.)						
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Scenic-theater stage	563,306	July 7	123	30	76	26
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Telephone system	563,877	July 14	1116	263	76	224
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Insulated electric conductor	572,215	Dec. 1	212	52	77	1318
Pattison, Richard, New York, N. Y. Headlight	558,099	Apr. 14	1063	261	75	218
Pattison, Richard, assignor to G. A. Suter & Co., New York, N. Y. Air-duct	565,499	Aug. 11	1032	248	76	827
Pattison, Richard, assignor to himself, P. Brommley, and C. A. Drucklie, New York, N. Y. Pneumatic tire	573,997	Dec. 29	3449	825	77	1997
Pattisson, Sidney, London, England. Saddle for velocipedes	570,497	Nov. 3	111	27	77	658

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Patton, James E., Jr., Milwaukee, Wis. Interchangeable-color-exhibiting device.....	572,216	Dec. 1	213	52	77	1318
Pattrell, Ernest. (See Wilder and Pattrell.)						
Patullo, George H., Bay City, Mich. Sawmill-carriage.....	568,272	Sept. 22	2700	647	76	1826
Patzack, Frank. (See Hull, Nicholas A., assignor.)						
Patzelt, Anton, and A. Schöche, Dresden, Germany. Vertical boiler.....	564,640	July 28	2460	578	76	501
Paul, Andrew G., Boston, Mass., assignor to Paul Steam System Company, of Maine. } Means for lifting and transferring liquids, &c.....	563,878	July 14	1117	{ 263 264 }	{ 76 76 }	224
Paul, Andrew G., Boston, Mass., assignor to Paul Steam System Company, of Maine. } Automatic valve.....	563,879	July 14	1122	264	76	236
Paul, Andrew G., Boston, Mass., assignor to Paul Steam System Company, of Maine. } Automatic valve.....	563,880	July 14	1125	264	76	236
Paul, Andrew G., and H. A. Joslin, Boston, Mass., said Joslin assignor to said Paul. Paper- drier.....	571,787	Nov. 24	2413	575	77	1149
Paul, Archibald, assignor of one-half to A. I. Whitehouse, Cohoes, N. Y. Quarter-saver for knitting-machines.....	560,106	May 12	1401	315	75	961
Paul, Charles S., Faribault, Minn. Mangle.....	572,614	Dec. 8	928	225	77	1474
Paul, Edward N., Philadelphia, Pa. Spool-holder.....	567,040	Sept. 1	543	127	76	1384
Paul, Isaac H., Jr., assignor to Frake Manufacturing Company, Bridgeport, Conn. Hose- supporter.....	569,662	Oct. 20	1650	389	77	343
Paul, J. Lee, <i>et al.</i> (See Wheeler, William H., assignor.)						
Paul, Lewis G., Huddersfield, England. Making nitrites.....	572,819	Dec. 8	1290	.....	77	1542
Paul Steam System Company. (See Barnard, George A., assignor.)						
Paul Steam System Company. (See Paul, Andrew G., assignor.)						
Paul Steam System Company. (See Skiffington, William P., assignor.)						
Paul, Archibald W., Wheeling, W. Va. Tinting wares.....	560,067	May 12	1331	.....	75	947
Paull, Elbridge G., Fairhaven, assignor to Atlas Tack Corporation, Boston, Mass. Sheet- metal gage.....	558,417	Apr. 14	1590	388	75	317
Paulson, Anders. (See Loyens and Paulson.)						
Paulson, James. (See Richards, Thomas W., assignor.)						
Paulson, Theodore H., Le Grand, Iowa. Ice-velocipede.....	559,202	Apr. 28	3005	726	75	617
Paulus, Henry. (See Kohl and Paulus.)						
Paulus, Jacob, Brooklyn, N. Y. Faucet or tap.....	563,307	July 7	124	30	76	26
Paulus, Jacob, Brooklyn, N. Y., assignor of one-half to A. Hartmann, East Orange, N. J. } Bottle.....	572,179	Dec. 1	147	36	77	1307
Pauly, Peter J., Sr., and J. C. McQuilkin, assignors to St. Louis Art Metal Company, St. } Louis, Mo. File-rack.....	570,679	Nov. 3	486	114	77	729
Pauwels, Louis, Paterson, N. J. Soldering compound.....	559,809	May 12	822	.....	75	852
Pavek, Francis J., Racine, Wis. Trunk.....	562,652	June 23	2769	{ 672 673 }	{ 75 75 }	1950
				{ 302 303 }	{ 76 76 }	868
Pawlik, Theodor, Chicago, Ill. Vessel-cleaner.....	565,632	Aug. 11	1254	.....	
Pawling, Alonzo, <i>et al.</i> (See Theurer and Mueller, assignors.)						
Paxson, Charles H., assignor to W. T. Parker and R. P. Thompson, Springfield, Ohio. Door- catch.....	553,868	Feb. 4	95	20	74	523
Paxton, W. F., <i>et al.</i> (See Rothschild, Adolph, assignor.)						
Payment, Francois X., and J. C. Hartig, Chicago, Ill. Window-frame.....	554,088	Feb. 4	525	117	74	601
Payne, Darius W. (See Disbrow, Reuben B., assignor.)						
Payne, Darius W., <i>et al.</i> (See Disbrow, Levi A., assignor.)						
Payne, David W., Elmira, N. Y. Attaching rail-bonds to rails of electric railways.....	560,366	May 19	1876	428	75	1096
Payne, Halbert E. (See Marshman and Burrige, assignors.)						
Payne, Horace D., Thompson, Pa. Hydraulic engine.....	571,621	Nov. 17	2105	505	77	1071
Payne, Jonas B., Smithtown, N. Y. Brake for tramway-cars.....	563,795	July 14	953	227	76	195
Payne, Robert H., Roanoke, Va. Hose-supporter.....	570,143	Oct. 27	2507	594	77	513
Payne, William H., Camden, N. J., assignor to Z. K. Loucks, Philadelphia, Pa. Device for preventing bottle-refilling.....	566,720	Aug. 25	3163	774	76	1264
Payne, William H., Camden, N. J., assignor to Z. K. Loucks, Philadelphia, Pa. Device for preventing bottle-refilling.....	566,721	Aug. 25	3164	774	76	1264
Payne, William H., Camden, N. J., assignor to Z. K. Loucks, Philadelphia, Pa. Device for preventing bottle-refilling.....	566,722	Aug. 25	3165	774	76	1264
Payne, William H., Camden, N. J., assignor to Z. K. Loucks, Philadelphia, Pa. Non-re- filling-bottle device.....	567,281	Sept. 8	969	230	76	1474
Payne, William H., Camden, N. J., assignor to Z. K. Loucks, Philadelphia, Pa. Non-re- filling-bottle device.....	567,750	Sept. 15	1771	425	76	1639
Payne, William R., and W. W. Jeter, Pocahontas, Va. Track-gage.....	555,525	Mar. 3	66	14	74	1143
Payne, William V., Chappells, S. C. Planter attachment for plows.....	552,923	Jan. 14	816	198	74	166
Paynton, Andrew C., Boise, Idaho. Cleaning attachment for rakes.....	554,722	Feb. 18	1626	384	74	841
Payson, Joseph R., Jr., Chicago, Ill. Producing electricity.....	567,721	Sept. 15	1718	{ 412 413 }	{ 76 76 }	1629
Payton, John W., Sedalia, Mo. Cuff-holder.....	553,260	Jan. 21	1402	342	74	292
Peabody, Charles E., Lynn, Mass. Rake-tooth.....	573,481	Dec. 29	2506	594	77	1806
Peabody, Henry O., Boston, Mass. Shoulder rest or support for violins.....	566,696	Aug. 25	3118	761	76	1257
Peabody, Robert S., Philadelphia, Pa. Boat.....	552,618	Jan. 7	197	55	74	39
Peabody, Robert S., Philadelphia, Pa. Alcohol blowpipe-lamp.....	560,748	May 26	2585	595	75	1243
Peabody, Robert S., Philadelphia, Pa. Screw-propeller for ships.....	562,020	June 16	1702	413	75	1736
Peabody, Robert S., Philadelphia, Pa. Boat.....	563,796	July 14	955	227	76	196
Peace, John G., Micanopy, assignor of one-half to Z. C. Chambliss, Ocala, Fla. Plant-pro- tector.....	559,597	May 5	420	100	75	764
Peacock, Elijah P., assignor to Amberg File and Index Company, Chicago, Ill. Letter-file.....	565,864	Aug. 11	1679	411	76	949
Peake, Wrenny, and E. C. Inderleed, Rock Rift, N. Y. Saw-guide.....	562,237	June 16	2067	501	75	1804
Pearce, Frederick. (See Piel, Jean, assignor.)						
Pearce, Giles O., Colorado City, Colo. Extracting gold from solutions.....	566,690	Mar. 17	2161	505	74	1566
Pearce, William. (See Walker and Pearce.)						
Pearce, George R., Lynn, assignor to Steam Heated Horn Company, Boston, Mass. Shoe- sewing machine.....	556,159	Mar. 10	1205	281	74	1372
Pearl, Azariah Y., Rochester, N. H. Auger.....	565,500	Aug. 11	1034	248	76	827
Pearn & Co., Frank. (See Pearn, Frank, assignor.)						
Pearn, Frank, Manchester, assignor to F. Pearn & Co., Limited, West Gorton, England. } Pump.....	557,285	Mar. 31	3226	{ 774 775 }	{ 74 74 }	1802
Pearse, W. H. H., <i>et al.</i> (See Brenneisen, John E., assignor.)						
Pearson, Benjamin, Redlands, Cal. Faucet.....	560,749	May 26	2586	596	75	1243
Pearson, Fred. (See Coupland and Pearson.)						
Pearson, Gardner W. (See Damon, George B., assignor.)						
Pearson, Harvey, De Peyster, N. Y. Stubble-rejecter.....	571,138	Nov. 10	1301	302	77	908
Pearson, Henry W., Bristol, England. Apparatus for controlling valves of baths, basins, &c.....	552,544	Jan. 7	72	19, 20	74	16

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Pearson, John, Chicago, Ill. Grain-car	556,768	Mar. 24	2312	543	74	1611
Pearson, Peter, Menominee, Mich. Garment-protector	573,998	Dec. 29	3450	825	77	1997
Pearson, Richard, London, England. Thermometric circuit-closer or alarm	560,921	May 26	2909	667	75	1305
Pearson, Richard I., Kansas City, Mo. Truss	566,530	Aug. 25	2873	699	76	1211
Pearson, Sermon B., executor. (See Damborg, Thorwald C.)						
Pearson, Thomas T., assignor of one-half to E. D. Gibbs, Somerville, and J. F. Stoddard, Boston, Mass. Hat-hanger	560,598	May 19	2275	521	75	1169
Pearson, William, Paris, France. Automatic distribution of disinfecting liquids	560,922	May 26	2910	667	75	1305
Pearson, William E., Boston, Mass. Car-coupling	565,689	Aug. 11	1358	330		
Pease, Charles, assignor of two-thirds to K. D. Pierce, Hillsborough, and S. K. Paige, Warner, N. H. Device for drying textile articles	568,874	Oct. 6	278	64	77	54
Pease, Charles W. (See Risley and Pease.)						
Pease, Edwin O., Newark, N. J. Street-sweeper	568,368	Sept. 29	2866	689	76	1872
Pease, Henry C., Scranton, Pa. Bottle	561,275	June 2	342	86	75	1435
Pease, John F., assignor to J. F. Pease Furnace Company, Syracuse, N. Y. Generator	554,456	Feb. 11	1174	273	74	738
Peavey, Frank A., Port Huron, Mich. Pneumatic stacker	572,768	Dec. 8	1203	291		
Peavey, John N., Jr., Ashland, N. H. Calipers	571,788	Nov. 24	2415	575	77	1150
Peay, Walter W., et al. (See Skanks, Stephen C., assignor.)						
Pechner, Louis J., San Francisco, Cal. Mail-delivery for buildings	553,133	Jan. 14	1171	285	74	275
Peck, Albert S., Geneva, Ill., assignor to McCormick Harvesting Machine Company. Corn-harvester	570,498	Nov. 3	112	27	77	659
Peck, Alexander S., Armour, S. D. Car-coupling	565,559	Aug. 11	1126	272	76	844
Peck, Arthur E., Minneapolis, Minn. Bicycle-saddle	572,062	Nov. 24	2898	684	77	1240
Peck Bros. & Company. (See Totham, James, assignor.)						
Peck, Charles C., Middlebury, Vt. Emergency car brake and fender	564,533	July 21	2256	530	76	446
Peck, Charles M., New Haven, Conn. Trick-platform for bicycle-riders	564,392	July 21	2031	477	76	406
Peck, Charles S., Danbury, Conn. Hat-brim-pouncing machine	559,865	May 12	944	211	75	874
Peck, Christopher. (See Cowburn and Peck.)						
Peck, Edmund E., Brooklyn, N. Y. Counterpoise-spring for box-lids	563,058	June 30	3511	843	75	2114
Peck, Edmund E., Brooklyn, N. Y. Bedstead	563,059	June 30	3512	844	75	2115
Peck, Edmund E., Brooklyn, N. Y. Folding bed and couch	570,048	Oct. 27	2328	552	77	479.
Peck, Ezra A., assignor to Deering Harvester Company, Chicago, Ill. Harvester	567,196	Sept. 8	809	191	76	1447
Peck, George A. (See Perry, Frederick H., assignor.)				192		
Peck, George B. (See Perry, Fred. H., assignor.)						
Peck, George L. (See Adams, Richard L., assignor.)						
Peck, Irving H., Derby, Conn. Clip for display of price-cards	564,799	July 28	2729	649	76	550
Peck, John M. (See Totham, James, assignor.)						
Peck, Leon L., Canisteo, N. Y. Wire-splicing tool	563,684	July 7	753	178	76	142
Peck, Melinda. (See Peck, Orrin B., assignor.)						
Peck, Melvin, South Bend, Ind. Washboard	566,933	Sept. 1	341	79	76	1347
Peck, Orrin B., Chicago, Ill. Centrifugal separator	560,634	May 19	2380	543	75	1185
Peck, Orrin B., Chicago, Ill. Pulverizing-machine	560,639	May 19	2396	548		
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,620	May 19	2316	530	75	1175
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,621	May 19	2322	531	75	1176
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,622	May 19	2329	532		
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,623	May 19	2334	533	75	1177
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,624	May 19	2342	534		
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,625	May 19	2348	535	75	1180
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,626	May 19	2352	536		
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,627	May 19	2355	537	75	1182
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,628	May 19	2358	538		
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,629	May 19	2361	539	75	1183
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,630	May 19	2363	540		
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,631	May 19	2367	541	75	1184
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,632	May 19	2370	542		
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,633	May 19	2376	543	75	1185
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,635	May 19	2388	544		
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,636	May 19	2391	545	75	1187
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,637	May 19	2393	546		
Peck, Orrin B., assignor, by mesne assignments, to Patent Title Company, Chicago, Ill. Centrifugal separator	560,638	May 19	2395	547	75	1187
Peck, Orrin B., assignor to M. Peck, Chicago, Ill. Pulverizing-machine						
Peck, Real S. (See Rafter, Joseph J., assignor.)						
Peck & Roberts, et al. (See Ramage, Alexander S., assignor.)						
Peck, Staunton B., assignor to Link-Belt Machinery Company, Chicago, Ill. Package-elevator	570,562	Nov. 3	242	61	77	683
Peck, Stow & Wilcox Company. (See Ellrich, Robert C., assignor.)						
Peck, Thomas M., et al. (See Billings, George W., assignor.)	562,194	June 16	2001	484	75	1791
Peck, Wallace, Brooklyn, N. Y. Letter-box	560,640	May 19	2390	549	75	1188
Peck, Wilbur H., Chicago, Ill. Centrifugal separation	560,641	May 19	2404	550		
Peck, Wilbur H., Chicago, Ill. Centrifugal amalgamator	573,235	Dec. 15	2022	485	77	1701

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Peckham, Edgar, Kingston, N. Y. Car-brake.....	555,527	Mar. 3	70	15	74	1143
Peckham, Edgar, Kingston, N. Y. Adjustable life and wheel guard.....	555,528	Mar. 3	72	16	74	1143
Peckham, Edgar, New York, N. Y. Car-truck and its gear.....	555,526	Mar. 3	67	15	74	1143
Peckham, Edgar, New York, N. Y. Motor-hanger for electrically-propelled cars.....	555,529	Mar. 3	74	16	74	1144
Peckham, Edgar, New York, N. Y. Car-truck.....	555,530	Mar. 3	76	17	74	1144
Peckham, Edgar, New York, N. Y. Self-lubricating dust-tight axle-box.....	555,531	Mar. 3	78	17	74	1145
Peckham, Edgar, New York, N. Y. Truss-brace for railway-cars.....	560,816	May 26	2704	621	75	1266
Peckham, Edgar, Kingston, N. Y. Car-truck.....	563,685	July 7	754	178 179 341 342 343 344 345	76	142
Peckham, Luther A., Oswego Falls, N. Y. Wool-washing machine.....	552,305	Apr. 14	1399	343	75	282
Peckinpau, Sebastian S., Centralia, assignor of one-half to T. A. Taylor, Grand Rapids, Wis. Bottle.....	568,875	Oct. 6	279	64	77	54
Peddle, William H., <i>et al.</i> (See Daves, William, assignor.)						
Pederquist, August. (See Henny and Pederquist.)						
Pedersen, Bernt, New York, N. Y. Crank or the like.....	558,516	Apr. 21	1779	432	75	370
Pedersen, Johannes T., New York, N. Y. Dental handpiece.....	552,669	Jan. 7	294	79	74	57
Pederson, Hans, Coupland, Tex. Earth-auger.....	553,660	Jan. 28	2103	497	74	435
Pederson, Rasmus, Drammen, Minn. Corn-harvester.....	553,421	Jan. 21	1682	401 402	74	343
Pedrick, Charles H., Moorestown, N. J. Case for holding and displaying samples of cards.....	555,615	Mar. 3	220	51	74	1170
Pedrick, Howard A., assignor of one-half to W. J. Hibbs, Philadelphia, Pa. Mechanism for grinding car-wheels.....	573,694	Dec. 22	2898	685	77	1881
Peele, John F., Brightsville, S. C. Plow-stock.....	552,545	Jan. 7	73	20	74	17
Peeples, George, assignor of one-half to Thackara Manufacturing Company, Philadelphia, Pa. Drop-light electrolier.....	558,609	Apr. 21	1929	469	75	397
Peeples, Wingrave H., Bound Brook, N. J. Carpet-stretcher.....	554,789	Feb. 18	1743	409	74	863
Peet, James M., Pittsburg, Pa. Freight-car.....	570,331	Oct. 27	2890	686	77	584
Peet, John T., National Military Home, Kans. Fire and burglar alarm.....	563,881	July 14	1127	264	76	226
Peet, Walter F., Philadelphia, Pa. Fastening for garments.....	570,267	Oct. 27	2736	650	77	557
Pegel, Julius. (See Ruckstinat, John, assignor.)						
Pegel, Julius G., assignor of two-thirds to L. Scowcroft, Philadelphia, Pa., and J. Ruckstinat, East Providence, R. I. Puzzle.....	574,261	Dec. 29	3966	942	77	2090
Peirce, Almy L., assignor, by mesne assignments, to U. S. Cycle Improvement Company, Pittsburg, Pa. Bicycle package-carrier.....	567,159	Sept. 8	762	178	76	1438
Peirce, Almy L., assignor, by mesne assignments, to U. S. Cycle Improvement Company, Pittsburg, Pa. Velocipede.....	567,160	Sept. 8	762	178	76	1438
Peirce, Almy L., assignor, by mesne assignments, to U. S. Cycle Improvement Company, Pittsburg, Pa. Velocipede-pedal.....	567,161	Sept. 8	763	178	76	1438
Peirce, Almy L., assignor, by mesne assignments, to U. S. Cycle Improvement Company, Pittsburg, Pa. Military velocipede.....	567,162	Sept. 8	764	179	76	1438
Peirce, Edward A., <i>et al.</i> (See Brooks, Stephen H., assignor.)						
Peirce, Erastus L., Topeka, Kans. Mail-crane.....	552,773	Jan. 7	496	122	74	93
Peirce, George. (See Powers, William H., Jr., assignor.)						
Peirce, John N., assignor to New England Electro Tonic Company, Boston, Mass. Coin-controlled electrical apparatus.....	560,423	May 19	1985	453 454	75	1116
Peirson, John W., and F. A. T. Moor, Philadelphia, Pa. Treating skins.....	555,050	Feb. 18	2228		74	951
Peisner, Edward L., Aspen, Colo. Portable stand for bicycles.....	573,482	Dec. 22	2507	594	77	1806
Pelatan, Louis, Paris, France, and F. Clerici, Milan, Italy. Process of and apparatus for extracting gold from its ores.....	553,816	Jan. 28	2362	562	74	485
Pelatan, Louis, Paris, France, and F. Clerici, Milan, Italy. Extracting gold and silver from their ores.....	567,503	Sept. 8	1353	326	76	1544
Pelatan, Louis, Paris, France, and F. Clerici, Milan, Italy. Electrolytic apparatus for extracting gold and silver from their ores.....	568,099	Sept. 22	2411	581	76	1771
Pelham, Abram, assignor of one-half to R. L. Root, Plymouth, Mich. Pneumatic dental plugger.....	566,220	Aug. 18	2298	562	76	1087
Pell, Harry S., Akron, Ohio, assignor to Stirling Company, Chicago, Ill. Steam-boiler.....	571,282	Nov. 10	1533	363	77	952
Pell, Thomas B., Lewisport, Ky. Fastening device for wagon-roads.....	565,790	Aug. 11	1537	374	76	922
Pellegrines, Pierre, San Francisco, Cal. Collapsible top for vehicles.....	560,068	May 12	1332	298	75	947
Pelley, Frank L., deceased; J. P. Wilson, Manchester, Iowa, administrator. Shingling-gage.....	563,830	July 14	1013	241	76	205
Peloubet, Esten, Alexander, Ark. Insulator.....	554,723	Feb. 18	1627	384	74	842
Pelster, Frederick W., Johnstown, Nebr. Combined display-hook and price-card holder.....	557,872	Apr. 7	615	146	75	116
Pelton, George W., Muscatine, Iowa. Propeller-wheel.....	553,177	Jan. 14	1258	305	74	250
Pelton, Leander, Des Moines, Iowa. Broom-sewing machine.....	572,615	Dec. 8	930	225 226	77	1474
Pember, Elba, assignor of one-half to C. O. Potter, Pemberville, Ohio. Pipe-wrench.....	553,015	Jan. 14	965	233	74	195
Penberthy Injector Company. (See Desmond, John, assignor.)						
Penberthy Injector Company. (See Sweeney, Thomas J., assignor.)						
Pence, A. W., <i>et al.</i> (See Kennedy, Richard G., assignor.)						
Pence, Thomas J., Troy, Ohio. Veterinary tooth-cutter.....	571,283	Nov. 10	1534	363 364	77	952
Pence, William. (See Johnson and Pence.)						
Penchard, William E., assignor of one-half to H. A. Oberholtzer, Lawrence, Kans. Lantern.....	564,759	July 28	2667	634	76	539
Pendergast, Maurice D., Hutchinson, Minn. Bob-sled.....	558,836	Apr. 21	2314	563	75	468
Pendergast, Thomas H., and B. H. Bueter, Louisville, Ky. Veterinary smoke-injector.....	570,332	Oct. 27	2891	686	77	584
Pendergast, Thomas J., Easthampton, Mass. Foot-rest for boot-blacks.....	573,224	Dec. 15	2116	508	77	1717
Pendexter, Edward F., Milford, Mass. Combined door-lock and skid.....	557,694	Apr. 7	300	72	75	57
Pendexter, W. W., <i>et al.</i> (See Carr, Warren H., assignor.)						
Pendleton, Albert M., Salt Lake City, Utah. Bridle-bit.....	567,950	Sept. 15	2104	507	76	1702
Pendleton, C. F. (See Norton, Charles E., assignor.)						
Pendleton, Frank P., <i>et al.</i> (See Brown, Franklin, assignor.)						
Pendleton, Gurdon, Jr., Carbondale, Pa. Package.....	571,928	Nov. 24	2669	632	77	1197
Pendleton, Gurdon, Jr., New York, N. Y., assignor to Pendleton Manufacturing Company, of West Virginia. Bobbin.....	557,873	Apr. 7	617	147	75	116
Pendleton, John H., Brooklyn, N. Y. Air-compressor.....	561,126	June 2	84	23	75	1383
Pendleton Manufacturing Company. (See Pendleton, Gurdon, Jr., assignor.)						
Pendley, William, Hinton, assignor of one-half to R. L. Franklin, Calhoun, Ga. Wagon-brake.....	570,333	Oct. 27	2892	687	77	585
Pendley, William, Hinton, assignor of one-half to R. L. Franklin, Calhoun, Ga. Automatic brake.....	573,791	Dec. 22	3051	723	77	1911

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Pendry, William A., assignor, by mesne assignments, to J. K. Gailey, Detroit, and C. A. Dunbar, Southfield, Mich. Inhaler.....	552,968	Jan. 14	893	216	74	181
Penfield, Edward G., New Haven, Conn. Adjustable folding stand.....	571,980	Nov. 24	2758	650	77	1214
Penfield & Son, J. W. (See Wallace, William W., assignor.)						
Penfield, William A., Meriden, Conn. Joint for members of bicycle-frames.....	573,695	Dec. 22	2899	685	77	1882
Penfield, William A., assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Cooking-lamp.....	553,686	Jan. 28	2144	507	74	443
Penfield, William A., assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Pedestal for undertakers' use.....	566,934	Sept. 1	342	80	76	1348
Penhall, Fletcher W., Morton, Minn. Speculum.....	563,236	June 30	3835	919	75	2175
Pentakoff, Demitry A., Huy, Belgium. Making aluminate.....	572,026	Nov. 24	2827		77	1227
Penn, William E. (See Brown and Penn.)						
Penn, William E., assignor to F. B. Fargo & Company, Lake Mills, Wis. Churn and butter-worker.....	565,791	Aug. 11	1538	{ 374 375 }	{ 76 75 }	{ 922 1804 }
Pennell, James W., Jr., and E. D. Briggs, Bairdstown, Ohio. Sucker-rod socket.....	562,238	June 16	2068	501	75	1804
Penney, Frank O. (See Wood, Benjamin, assignor.)						
Penney, Loren W., assignor to Pettee Machine Works, Newton, Mass. Means for changing speed of differential gearing.....	557,695	Apr. 7	302	72, 73	75	57
Penney, Urial E., assignor of one-half to H. Haas, Chicago, Ill. Cyclometer.....	562,415	June 23	2360	577	75	1674
Pennie, Henry. (See Law, Samuel H., assignor.)						
Pennie, John C. (See Ellis, Edward E., assignor.)						
Pennington, Edward J., Mount Carmel, Ill. Engine.....	570,439	Oct. 27	3091	{ 735 736 }	{ 77 77 }	{ 622 623 }
Pennington, Edward J., Cleveland, Ohio. Motor-vehicle.....	570,441	Oct. 27	3095	737	77	623
Pennington, Edward J., Chicago Heights, assignor to Motor Cycle Company, Chicago, Ill. Motor-vehicle.....	570,440	Oct. 27	3093	737	77	623
Pennington, Edward J., Cleveland, Ohio, assignor to Motor Cycle Company, Chicago, Ill. Motor-vehicle.....	574,262	Dec. 29	3967	{ 942 943 }	{ 77 77 }	{ 2090 2090 }
Pennington, John. (See Ramsey, Creed H., assignor.)						
Pennington, John, and J. Schott, Camden, N. J. Sewing-machine.....	558,459	Apr. 14	1677	404	75	334
Pennington, John C., Paterson, N. J. Sterilizing vessels.....	559,203	Apr. 28	3006	727	75	617
Pennington, John C., Paterson, N. J. Apparatus for filling and corking bottles.....	573,792	Dec. 22	3052	723	77	1911
Pennington, Walter W., Butte, Mont. Protractor.....	570,767	Nov. 3	640	147	77	755
Pennock, Willard, Minerva, Ohio. Metallic car.....	571,883	Nov. 24	2582	{ 611 612 613 }	{ 77 77 77 }	{ 1180 1181 1181 }
Pennock, Willard, Minerva, Ohio. Metallic car.....	571,884	Nov. 24	2585	{ 613 614 }	{ 77 77 }	{ 1181 2032 }
Pennock, Willard, Minerva, Ohio. Truck for railway-cars.....	574,074	Dec. 29	3582	856	77	2032
Pennsylvania Globe Gas Light Company. (See Lindsay, Charles R., Jr., assignor.)						
Pennsylvania Globe Gas Light Company. (See Schaner, Edward J., assignor.)						
Pennsylvania Globe Gas Light Company. (See Slinack, Victor H., assignor.)						
Pennsylvania Iron Works Company. (See Grist, Benjamin W., assignor.)						
Pennsylvania Salt Manufacturing Company. (See Purves, Austin M., assignor.)						
Penny, G. L. (See Rout, Benjamin F., assignor.)						
Pennyquick, James G., Toronto, Canada. Apparatus for lighting, heating, and cooking... Vault-light.....	571,014	Nov. 10	1072	250	77	508
Pennyquick, James G., assignor to J. L. Spink and T. W. Horn, trustees, Toronto, Canada.	568,789	Oct. 6	134	32	77	27
Penrose, Hallack A. (See Leavitt, Frank M., assignor.)						
Peple, Charles A., assignor to Mayo Tobacco Drying and Ordering Company, Richmond, Va. Moistening apparatus.....	555,616	Mar. 3	220	52	74	1171
Peppard, Matthew J., Minneapolis, Minn. Device for use in erecting dock-bents, &c.....	563,405	July 7	285	65	76	57
Pepper, Charles L., assignor to Spaulding & Pepper Company, Chicopee Falls, Mass. Implement for repairing pneumatic tires.....	565,413	Aug. 4	833	197	76	771
Pepper, Harry, New York, N. Y. Music-holder for pianos, &c.....	556,064	Mar. 10	1035	247	74	1340
Peppler, Frederick W. (See McNamara and Peppler.)						
Peptenzyme Company. (See Carrick, John, assignor.)						
Percefield, Clarence W., Rising Star, Tex. Riding-saddle.....	571,684	Nov. 17	2206	531	77	1090
Perceival, John F., and A. B. Astley, Coventry, England. Fire-escape.....	559,204	Apr. 28	3008	727	75	618
Percy, Clarence S., Bayou Sara, La. Truck.....	555,532	Mar. 3	80	18	74	1145
Percy, Sylvanus T., Port Huron, assignor, by mesne assignments, to W. J. Hopkins, St. Clair, Mich. Dust-pan.....	572,180	Dec. 1	150	37	77	1307
Perdreux, Emile J., assignor to H. S. Stallknecht, New York, N. Y. Overedge sewing-machine.....	574,263	Dec. 29	3972	{ 943 944 }	{ 77 77 }	{ 2091 2091 }
Perdrizet, Paul E. L., Paris, France. Glove-fastener.....	565,560	Aug. 11	1127	272	76	844
Perdrizet, Paul E. L., Paris, France. Glove-fastening.....	574,042	Dec. 29	3528	842	77	2012
Perdue, William J., Fort Smith, Ark. Railway-ticket.....	559,598	May 5	421	100	75	764
Perdue, William J., Fort Smith, Ark. Railway-ticket.....	559,599	May 5	423	101	75	765
Perdue, William J., Fort Smith, Ark. Ticket-book cover.....	571,390	Nov. 17	1710	407	77	1000
Perez, Antonio S., New York, N. Y. Machine for hulling coffee-berries.....	568,144	Sept. 22	2492	{ 599 600 647 648 649 }	{ 76 76 76 76 76 }	{ 1786 1786 1827 1827 1827 }
Perez y Buñol, Domingo, Havana, Cuba. Cigarette-machine.....	568,273	Sept. 22	2703	648	76	1827
Perfect Filter Company. (See Langer, Gotthold, assignor.)						
Perfume Ejector Company. (See Valiquet, Louis P., assignor.)						
Pergament, Tobias T., New York, N. Y. Fastening for shoes.....	563,060	June 30	3515	844	75	2115
Perham, Charles F., Lowell, Mass. Shuttle checking and releasing mechanism for looms.....	562,653	June 23	2771	673	75	1951
Perham, Charles F., Lowell, Mass. Picker-operating mechanism for looms.....	562,654	June 23	2773	673	75	1951
Perham, Charles F., Lowell, Mass. Harness-operating mechanism for looms.....	562,655	June 23	2775	674	75	1951
Perissé, Lucien, Paris, France. Cycle-saddle.....	569,977	Oct. 20	2206	525	77	443
Perkins, Albert, assignor to Lamb Manufacturing Company, Chicopee, Mass. Handle-bar.....	560,172	May 12	1520	343	75	982
Perkins, Amos H., assignor to United States Repair and Guaranty Company, Chicago, Ill. Apparatus for repairing asphalt pavements.....	560,599	May 19	2276	521	75	1169
Perkins, Charles, Plainville, Kans. Car-coupling.....	563,406	July 7	287	65, 66	76	57
Perkins, Charles G., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Electric switch.....	557,224	Mar. 31	3107	745	74	1782
Perkins, Charles G., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Electric switch.....	563,407	July 7	289	66	76	58
Perkins, Charles G., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Electric snap-switch.....	569,299	Oct. 13	1009	241	77	208
Perkins, Charles N., Lawrence, assignor of five-eighths to E. L. Abbott, Brookline, Mass. Portable fire-extinguisher.....	565,215	Aug. 4	494	117	76	708

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Perkins, Charles O., Petaluma, Cal. Handpiece for dental engines.....	572,310	Dec. 1	400	95	77	1355
Perkins, Charles P., Brockton, Mass. Coat-collar adjuster.....	565,792	Aug. 11	1542	375	76	923
Perkins, Clarence E., assignor of two-thirds to G. H. Sharp and T. Dyson, Westfield, Mass. Mechanism for operating churning apparatus.....	564,158	July 14	1640	383	76	321
Perkins Electric Switch Manufacturing Company. (See Perkins, Charles G., assignor.)						
Perkins Electric Switch Manufacturing Company. (See Powell, William H., assignor.)						
Perkins Electric Switch Manufacturing Company. (See Thomas, George B., assignor.)						
Perkins, Francis B., Boston, Mass. Elevator-operating mechanism.....	562,741	June 23	2926	710	75	1981
Perkins, Francis B., Boston, Mass., assignor to National Company, Chicago, Ill. Electric elevator.....	570,410	Oct. 27	3029	718	77	610
Perkins, Gaius W., et al. (See Friant and Linn, assignors.)						
Perkins, Gaius W., et al. (See Linn, Allen B., assignor.)						
Perkins, Gaius W., et al. (See Linn, Allen D. and A. B., assignors.)						
Perkins, Gaius W., et al. (See Raymond, Silas H., assignor.)						
Perkins, George B. (See Raymond, George N., assignor.)						
Perkins, George E., Cambridge, Mass. Split roll or pulley.....	569,663	Oct. 20	1651	390	77	343
Perkins, George R., Schuyler, Nebr. Photographic washing-tank.....	562,239	June 16	2069	502	75	1804
Perkins, George W. W., Chicago, Ill. Elevator.....	568,410	Sept. 29	2937	706	76	1885
Perkins, James B., assignor of one-half to P. Flannery, Lewiston, Idaho. Animal-trap.....	555,117	Feb. 25	2349	558	74	991
Perkins, James D. (See Malone and Perkins.)						
Perkins, John M., Brooklyn, N. Y. Railway-switch.....	564,159	July 14	1642	383	76	321
Perkins, Josiah P. (See Perkins, Omer M. and J. P.)						
Perkins, Omer M. and J. P., Indianapolis, Ind.; said J. P. Perkins assignor to said Ohmer M. Perkins. Ice-cream freezer.....	553,495	Jan. 21	1808	430	74	366
Perkins, Pardon T., assignor of seventeen thirty-seconds to T. Kingsford, Oswego, N. Y. Sea-cock.....	558,702	Apr. 21	2093	505	75	427
Perkins, Raleigh A. (See Washburn, Arthur H., assignor.)						
Perkins, Willis J., Grand Rapids, Mich. Shingle-machine.....	561,278	June 2	345	86, 87 87	75	1436
Perkins, Willis J., Grand Rapids, Mich. Shingle-sawing machine.....	561,279	June 2	351	88 89	75	1437
Perkins, Willis J., Grand Rapids, Mich. Shingle-machine.....	561,280	June 2	359	90 91 92 92	75	1439
Perkins, Willis J., Grand Rapids, Mich. Shingle-sawing machine.....	561,281	June 2	369	93 94 95	75	1441
Perkins, Willis J., Grand Rapids, Mich. Shingle-sawing machine.....	561,282	June 2	382	96, 97 132	75	1444
Perkins, Willis J., Grand Rapids, Mich. Shingle-machine.....	569,051	Oct. 6	578	133 136	77	110
Perky, Henry D., Worcester, Mass. Machine for reducing and preparing cereals for food.....	571,284	Nov. 10	1535	365 365	77	952
Perky, Henry D., Worcester, Mass. Machine for reducing cereals.....	571,285	Nov. 10	1538	365	77	953
Perl, John E., Osage Mission, Kans. Auxiliary gun-barrel.....	555,582	Mar. 3	166	39	74	1160
Perley, Chauncy B., assignor to Jenks Ship Building Company, Port Huron, Mich. Steam steering apparatus.....	570,680	Nov. 3	487	114	77	729
Perlich, Albin, Dresden-Striesen, Germany. Lamp for producing spirit-gas incandescent gas-light.....	570,049	Oct. 27	2329	552	77	479
Perlich, Albin, Leipzig, Germany. Burner for spirit-gas incandescent lights.....	572,565	Dec. 8	838	201	77	1457
Perot, Annie L., Philadelphia, Pa. Spool-holder, &c.....	565,561	Aug. 11	1128	272	76	844
Perot, Annie L., Philadelphia, Pa. Spool-holder.....	565,562	Aug. 11	1129	273	76	844
Perpente, William, New Haven, Conn. Speaking-tube.....	564,898	July 28	2886	692	76	579
Perrault, Samuel J., and T. L. Bauer, Natchez, Miss. Stove attachment.....	573,793	Dec. 22	3053	723	77	1911
Perreux-Lloyd, Marcel, assignor to E. Dumoulin, Paris, France. Manufacture of metallic articles by electrolysis.....	560,533	May 19	2157	493	75	1147
Perrin, Frederic S. (See Pickernell and Perrin.)						
Perrin, George D. (See Warren, John D., assignor.)						
Perrine, David. (See Jackson, Perrine, and Matthews.)						
Perrins, Thomas A., Ansonia, Conn. Machine for forming lacing-hooks.....	558,306	Apr. 14	1405	345 346	75	283
Perrottet, Marie L., New York, N. Y. Cake-pan.....	559,788	May 5	755	181	75	825
Perry, Arthur R. (See Folks, Thomas, assignor.)						
Perry, Austin E., Wakefield, and W. Gordon, Boston, Mass.; said Perry assignor to said Gordon. Leather forming or molding machine.....	564,641	July 28	2461	579	76	502
Perry, Carr B., Best, Ohio. Adjustable hame-hook.....	565,501	Aug. 11	1038	249	76	828
Perry, Ernest J., Fond du Lac, Wis. Carbon copying manifold sheet or book. (Reissue).....	11,547	June 9	1593	386	75	1696
Perry, Fred. H., assignor to G. B. Peck, Montpelier, Vt. Self-oiling journal-bearing.....	561,028	May 26	3076	709	75	1336
Perry, Frederick H., Montpelier, Vt. Pneumatic tire.....	553,566	Jan. 28	1943	458	74	407
Perry, Frederick H., assignor to G. A. Peck, Montpelier, Vt. Apparatus for transmitting power.....	560,229	May 19	1632	371	75	1054
Perry, George H., and W. S. Hancock, Needles, Cal. Locomotive circulating exhaust attachment.....	561,429	June 2	656	161	75	1494
Perry, Horace G., Suisun City, Cal. Type-writing machine.....	552,774	Jan. 7	497	122 123	74	94
Perry, Hubert M. (See McGuire and Perry.)						
Perry, James A., Chicago, Ill. Sofa-bed.....	569,664	Oct. 20	1652	390	77	343
Perry, John, assignor of one-half to J. W. Anderson, Missouri Valley, Iowa. Regulator for feed-water heaters.....	570,227	Oct. 27	2655	630	77	542
Perry, John G., Wakefield, R. I. Nut-lock.....	561,604	June 9	974	232	75	1579
Perry, Joseph R., Wilkes-Barré, Pa. Piano-action.....	553,567	Jan. 28	1944	459	74	408
Perry, Raymond A. (See Wood and Perry.)						
Perry, Richard D., Elyria, Ohio. Nut-tapping machine.....	554,951	Feb. 18	2024	479	74	916
Perry, Samuel R., Scranton, Pa. Piano-action.....	565,502	Aug. 11	1039	249	76	828
Perry, Thomas O., Chicago, Ill. Gas-governor.....	557,696	Apr. 7	303	73	75	58
Perry, Ver H., Storm Lake, Iowa. Drive-chain.....	564,766	July 28	2668	635	76	539
Perry, Walter B., Dublin, Ga. Penholder.....	573,696	Dec. 22	2900	685	77	1882
Perry, William A., assignor to T. C. Miles, New York, N. Y. Furnace.....	569,665	Oct. 20	1653	390 391	77	343
Perseles, Henry, and D. H. Mack, Binghamton, N. Y. Track-harness.....	554,303	Feb. 11	908	210	74	688
Persson, Charles, St. Joseph, Mo. Bread box and slicer.....	572,820	Dec. 8	1291	310	77	1543
Persson, Per, assignor to Aktiebolaget Per Perssons Vaf-Och Stickmaskin, Stockholm, Sweden. Knitting-machine.....	569,347	Oct. 13	1094	260	77	226

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Pertz, John W. (See Hamm and Pertz.)						
Pern Electric Manufacturing Company. (See Schutt, Dury A., assignor.)						
Pessenger, John S., Brooklyn, N. Y. Cylindrical saw	565,633	Aug. 11	1256	303	76	868
Peter, John, New York, N. Y. Garment-locker	560,923	May 26	2912	668	75	1305
Petereit, Albert, New York, N. Y. Swing for electric-light or telephone brackets	567,550	Sept. 8	1423	342	76	1556
Petereit, Albert, New York, N. Y. Burring or milling lathe	571,391	Nov. 17	1711	407	77	1000
Petereit, Albert, New York, N. Y., assignor to Petereit Manufacturing Company, of New York. Taper-turning machine	567,549	Sept. 8	1422	342	76	1556
Petereit Manufacturing Company. (See Petereit, Albert, assignor.)						
Peterhansl, Frank, assignor to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine	556,517	Mar. 17	1904	443	74	1518
Petermann, John, Jr., Gainesville, Miss. Swivel-hook	557,601	Apr. 7	127	33	75	25
Peters, Charles, Brooklyn, N. Y. Apparatus for cleaning pipes	557,874	Apr. 7	618	147	75	116
Peters, Charles A. T., Dexter, Mo. Railway-tie	569,469	Oct. 13	1283	302	77	258
Peters, Ernest. (See Fowler, Charles M., assignor.)						
Peters, George W., assignor to Hamilton Tube Company, Hamilton, Ohio. Metal-tube machine	563,797	July 14	956	227	76	196
Peters, George W., assignor to Hamilton Tube Company, Hamilton, Ohio. Sheet-metal- edging machine	563,798	July 14	958	228	76	196
Peters, Gershom M., Cincinnati, Ohio. Cartridge-loading machine	555,734	Mar. 3	421	97 98 99	74	1205
Peters, Gershom M., Cincinnati, Ohio. Cartridge-loading machine	561,029	May 26	3077	709	75	1336
Peters, Heber C., assignor of one-half to J. H. Reed, Boston, Mass. Machine for cutting twist-drills, &c.	569,565	Oct. 13	1469	346	77	293
Peters, Henry, assignor to T. G. Baldwin, Memphis, Tenn. Cotton chopper and cultivator	558,307	Apr. 14	1407	346	75	284
Peters, John P., Philadelphia, Pa. Portable stove and burner	572,908	Dec. 8	1422	343	77	1572
Peters, Leonard A., Wauwatosa, assignor of one-half to Milwaukee Brass and Copper Works, Milwaukee, Wis. Oil-cup	568,920	Oct. 6	344	80	77	66
Peters, Myron J. (See Carruthers, John, assignor.)						
Peters Pump Company. (See Murchison, Roderick, assignor.)						
Petersen, Charles J., assignor to G. Mertz's Sons, Port Chester, N. Y. Lathe for turning spiral patterns on sticks	561,724	June 9	1192	283	75	1621
Petersen, Christian B., assignor of one-half to V. T. Johnsen, Chicago, Ill. Apparatus for pasteurizing and cooling cream or milk	558,980	Apr. 28	2574	625	75	535
Petersen, Edward A. C., Chicago, Ill. Baker's oven	569,799	Oct. 20	1913	454	77	388
Petersen, Ernest, London, England. Automatic feed-water regulator, heater, and purifier	569,935	Oct. 20	2141	507	77	431
Petersen, Frank G., Seattle, Wash. Trousers-stretcher	566,221	Aug. 18	2300	563	76	1087
Petersen, Theodor W. (See Fulton and Petersen.)						
Peterson, Alexander, Elizabeth, N. J. Sled	565,143	Aug. 4	362	84	76	684
Peterson, Charles, assignor of one-half to A. McDonell, Omer, Mich. Kettle bail and cover	572,821	Dec. 8	1292	311	77	1543
Peterson, Charles J., Dubuque, Iowa. Dental matrix	552,697	Jan. 7	347	91	74	68
Peterson, Cyrus A. (See Le Sieur, St. Vrain, assignor.)						
Peterson, Cyrus A., Stratton, Nebr. Insulator	557,600	Apr. 7	126	33	75	25
Peterson, Cyrus A., Stratton, Nebr. Telegraph-pole	574,364	Dec. 29	4135	982	77	2122
Peterson, Emil A., Appleton, Wis. Snow-shoe attachment for bicycles	573,034	Dec. 15	1660	399	77	1634
Peterson, Franz, Moorheadville, Pa. Sandpapering-machine	564,712	July 28	2569	608 609	76	523
Peterson, James. (See Craig, Burton S., assignor.)						
Peterson, John. (See Chaffee and Moore, assignors.)						
Peterson, John A., and G. Soderstrom, Sturgis, Mich. Combination bed and sofa	570,563	Nov. 3	245	61	77	683
Peterson, Jonathan, New York, N. Y., assignor to American Tobacco Company, of New Jersey. Packing and show case	558,100	Apr. 14	1065	261	75	218
Peterson, Julius B. (See Anderson and Peterson.)						
Peterson, Olef E., and G. L. Curtis, assignors to B. G. Thatcher, Logan, Utah. Windmill	561,914	June 9	1515	366 367	75	1681
Peterson, Oscar, Paterson, N. J. Sliding saddle-support for bicycles	572,273	Dec. 1	321	77	77	1340
Peterson, William, Clinton, Iowa. Clothes-litter	554,003	Feb. 4	367	80	74	572
Petgen, Charles J., et al. (See Cable, Daniel J., assignor.)						
Petit, Ademor N., Roseville, N. J., assignor to himself, and J. Livingston, New York, N. Y. Apparatus for exhibiting successive photographs	560,367	May 19	1878	428 429	75	1097
Petit, Ademor N., Roseville, N. J., assignor to himself, and J. Livingston, New York, N. Y. Series photographic camera	560,424	May 19	1986	454	75	1116
Petit, Ademor N., Roseville, N. J., assignor to himself, and J. Livingston, New York, N. Y. Apparatus for exhibiting successive photographs	560,425	May 19	1988	454 455 561 562	75	1117
Petithomme, Joseph L., Oakland, Cal. Car-axle box	573,417	Dec. 15	2349	561	77	1760
Petitpain, Louis N., Paris, France. Bicycle-pump	558,837	Apr. 21	2314	564	75	468
Petraeus, Carl V., assignor to O. H. Picher, Joplin, Mo. Smelting galena	556,691	Mar. 17	2162	74	74	1567
Petraeus, Carl V., assignor to O. H. Picher, Joplin, Mo. Paint compound	571,128	Nov. 10	1288	77	77	906
Petram, Henry F., Ottumwa, Iowa. Carpet-fastener	554,724	Feb. 18	1628	384	74	842
Petrie, David H., Milford, Conn. Combined air-pump and wrench	567,407	Sept. 8	1201	287	76	1516
Petrus, John, F. Koszl, and W. Hegenscheidt, Milwaukee, Wis. Lubricator	562,835	June 30	3115	754	75	2034
Petry, Nicholas A., Philadelphia, Pa. Cleaning or polishing implement	573,697	Dec. 22	2901	686	77	1882
Petschel, Wilhelm, Berlin, Germany. Making secondary or storage battery plates	566,531	Aug. 25	2874	76	76	1211
Pettee, Joseph, Jr., Whitman, Mass. Bed-slat	557,697	Apr. 7	308	73	75	58
Pettee Machine Works. (See Hunton, Robert W., assignor.)						
Pettee Machine Works. (See Mills, Charles, assignor.)						
Pettee Machine Works. (See Penney, Loren W., assignor.)						
Pettee, William E., Boston, Mass. Can-labeling machine	560,324	May 19	1804	411	75	1084
Pettenkofer, Adolph, Brooklyn, N. Y. Kinetoscope	571,496	Nov. 17	1896	451	77	1033
Pettinati, Antonio, Rome, Italy. Bicycle	571,051	Nov. 10	1127	263 264	77	877
Pettinger, John, Santa Barbara, Cal. Vehicle-wheel bearing	556,640	Mar. 17	2087	488	74	1552
Pettingill, Albert K. (See Pratt, John C., assignor.)						
Pettit, David, Beverly, N. J., assignor to Pettit Ornamental Iron and Fence Company, of Pennsylvania. Track-sanding device	568,489	Sept. 29	3065	737 738	76	1909
Pettit Ornamental Iron and Fence Company. (See Pettit, David, assignor.)						
Pettit, William V., New York, N. Y. Partition-block	570,733	Nov. 3	582	133	77	745
Petzold, Adolph. (See Hall and Petzold.)						
Peugh, George D., Salem, Ind. Wire-fence machine	574,264	Dec. 29	3975	944	77	2092
Pew, John O. (See Fowler, Charles E., assignor.)						
Pew, Joseph N., Pittsburg, Pa. Valve	556,023	Mar. 10	944	225	74	1325

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Pew, Joseph N., Pittsburg, Pa. Valve	556,024	Mar. 10	945	225	74	1325
Pewthers, Daniel P., assignor of one-half to S. H. Montgomery, Portsmouth, Ohio. Spool-holder	567,996	Sept. 22	2208	532	76	1734
Peyton, Robert L., Stockton, Cal. Display-stand	558,308	Apr. 14	1410	347	75	284
Pfaff, Valentine, San Francisco, Cal. Car-coupling	560,325	May 19	1810	412	75	1084
Pfaff, Valentine, San Francisco, Cal. Car-coupling	560,326	May 19	1811	412	75	1085
Pfatischer, Mathias, Philadelphia, Pa. Steering-gear for ships	559,903	May 12	1026	227	75	889
Pfatischer, Mathias, Philadelphia, Pa. Electrical steering-gear	559,904	May 12	1028	227 228 229	75	889
Pfatischer, Mathias, Philadelphia, Pa., assignor to Electro-Dynamic Company, of Pennsylvania. Indicator for the speed of revolution of propellers	561,430	June 2	658	161	75	1495
Pfatischer, Mathias, Philadelphia, Pa., assignor to Electro-Dynamic Company, of Pennsylvania. Telltale for steering-gear of ships	561,431	June 2	659	161	75	1495
Pfautz, Daniel M., Philadelphia, Pa., assignor to Carriage Cycle Company, of New Jersey. Tricycle	573,285	Dec. 15	2117	508 509 509	77	1718
Pfeifer, John, assignor of one-half to W. F. and E. Bauroth, Springfield, Ohio. Cash register and indicator	560,924	May 26	2913	668 669 670	75	1305
Pfeiffer, Edward. (See Pugh, William M., assignor.)						
Pfeiffer, Henry C. (See Yanner and Pfeiffer.)						
Pfeiffer, Henry C., Kansas City, Mo. Combined nut cracking and feeding machine	563,308	July 7	126	30, 31	76	27
Pfeiffer, Henry J., Pittsburg, Pa. Ice-cream mold and disher	571,170	Nov. 10	1346	314	77	917
Pfeiffer, John W., Sandusky, Ohio. Truss	567,997	Sept. 22	2209	532	76	1734
Pfender, Peter, Twin Lake, Ind. Kitchen-cabinet	561,690	June 9	1121	266 267	75	1607
Pfister, Eugene, et al. (See Marquart, Rudolf, assignor.)						
Pfister, John J., San Francisco, Cal. Athlete's supporter	563,408	July 7	290	60	76	58
Pflegler & Son, F. P. (See Stebbins, Charles W., assignor.)						
Pfeiderer, Paul. (See Werner and Pfeiderer.)						
Pfueger, Ernest F., Akron, Ohio. Fishing-reel	560,925	May 26	2922	670	75	1307
Pfueger, Ernest F., Akron, Ohio. Artificial fish-bait	564,839	July 25	2790	664	76	561
Pfuger, Charles A., Chicago, Ill. Carbon-holder for arc-lamps	557,518	Mar. 31	3635	872	74	1881
Pfuger, Frank H., Portland, Oreg. Tank	565,503	Aug. 11	1041	249	76	829
Pfohl, Joseph P., et al. (See Stansbury, George F., assignor.)						
Pfouts, Leroy S., assignor to F. M. Wyant, Canton, Ohio. Hot-air furnace	570,430	Oct. 27	3068	727 728	77	618
Pfrimmer, William H. (See Harold and Pfrimmer.)						
Pfund, Adolph, Genoa, Ill. Mower	557,317	Mar. 31	3280	786	74	1813
Pfund, Herman, Madison, Wis. Device for handling books	571,789	Nov. 24	2416	576	77	1150
Phears, Robert L., Kansas City, Mo. Spirit-level	574,110	Dec. 29	3648	871	77	2034
Phelan, Louis, San Francisco, Cal. Shawl-strap	562,021	June 16	1703	414	75	1737
Phelps, Adelbert, assignor to W. Hayes and M. Phelps, Solon, N. Y. Knockdown crate	564,713	July 28	2571	609	76	523
Phelps, Adelbert, Irvington, N. Y. Garment-stretching frame	569,885	Oct. 20	2043	486	77	412
Phelps, Augustus, Newark, N. J. Insignia and campaign button	562,656	June 23	2777	674	75	1952
Phelps, Charles A. (See Annin, Bryant W., assignor.)						
Phelps, Charles A., Broadway, Ohio. Fence	556,518	Mar. 17	1906	444	74	1519
Phelps, Edward P., Chicago, Ill. Ventilating apparatus for vehicles, &c	572,444	Dec. 1	631	149	77	1398
Phelps, Edwin. (See Phelps, Walter J. and E.)						
Phelps, Frank, and P. Daw, Birmingham, England. Sash-fastener	560,817	May 26	2706	621	75	1267
Phelps, Frederick A., Jr., Schenectady, N. Y. Balanced throttle-valve	553,040	Jan. 14	1001	244	74	201
Phelps, George H., Newton, Mass. Closure for bottles	554,833	Feb. 18	1820	426	74	879
Phelps, Gustavus A., et al. (See Moore, Morris W., assignor.)						
Phelps, Harvey J., Havana, Ill. Wagon-gear	560,280	May 19	1731	393	75	1072
Phelps, Herbert L., Chicago, Ill., assignor to National Machine Company, Troy, N. Y. Machine for sewing on buttons	553,687	Jan. 28	2145	507 508	74	443
Phelps, James W., Troy, N. Y. Linotype-machine	554,790	Feb. 18	1744	409	74	863
Phelps, James W., Troy, N. Y., assignor to Mergenthaler Linotype Company, of New Jersey. Linotype-machine	554,791	Feb. 18	1746	409	74	863
Phelps, John R. (See Dayton, Alton A., assignor.)						
Phelps, Maria, et al. (See Phelps, Adelbert, assignor.)						
Phelps, Theodore B., Brewster, N. Y. Dust-guard for car journal-boxes	559,984	May 12	1166	260	75	918
Phelps, Walter J. and E., assignors of one-half to H. F. Going, Baltimore, Md. Can-soldering machine	573,035	Dec. 15	1661	399	77	1634
Phelps, Walter S., Indianapolis, Ind. Compound feed-motion for boring cylinders	570,050	Oct. 27	2331	552	77	479
Phelps, William, et al. (See Smith, Wilson W., assignor.)						
Phifer, Washington I., assignor of one-fourth to O. Conrad, California, Mo. Pump	571,929	Nov. 24	2671	633	77	1197
Philadelphia Engineering Works. (See Gordon, Frederick W., assignor.)						
Philadelphia Textile Machinery Company. (See Proctor, Josiah K., assignor.)						
Philip, Frank, Stockport, N. Y. Feed-mill	565,690	Aug. 11	1359	330 331	76	889
Philip, Pierre, Paris, France. Fruit-jar	567,610	Sept. 15	1533	369	76	1592
Philipp, Friedrich, New York, N. Y. Punching-machine	557,018	Mar. 24	2748	652	74	1693
Philippsohn, Jacob, Berlin, Germany. Cloth-cutting machine	562,657	June 23	2779	674	75	1952
Philippi, Frank A., Pottstown, Pa., assignor of one-half to G. L. Feldman, Newark, N. J. Attachment for polishing or buffing machines	568,545	Sept. 29	3192	769	76	1931
Phillips, Alexander C., Austin, Ill. Knife-holding attachment for grinding-machines	561,177	June 2	191	47	75	1403
Phillips, Benjamin. (See Winkley, Erastus E., assignor.)						
Phillips, Benjamin. (See Winkley and Phillips.)						
Phillips, Charles H., Malden, and W. E. Nickerson, Cambridge, Mass. Automatic weighing-machine	554,029	Feb. 4	416	91, 92	74	581
Phillips, Cornelius J., New York, N. Y. Boiler-patch	571,096	Nov. 10	1219	285	77	894
Phillips, David E., Mahanoy City, Pa. Shaker-screen	555,262	Feb. 25	2596	609	74	1038
Phillips, David E., Mahanoy City, Pa. Slate-picker	572,661	Dec. 8	1004	242 243	77	1489
Phillips, Dewey, Arlington, Vt. Saw	560,426	May 19	1992	455	75	1118
Phillips, Dewey, Arlington, Vt. Saw	571,955	Nov. 24	2717	643	77	1207
Phillips, Edwin H. (See Main, Jacob F., assignor.)						
Phillips, Elias O., and G. Class, Jr., Union, N. J. Clothes-line support	554,497	Feb. 11	1242	291	74	750
Phillips, Francis M., and E. Stebinger, Portland, Oreg. Excavator	573,698	Dec. 22	2902	626	77	1882
Phillips, George A., Columbus, Ind. Registering device	569,348	Oct. 13	1096	260	77	226
Phillips, George C., assignor of one-half to P. Maginnis, Kimball, Nebr. Reel-carrier	558,309	Apr. 14	1411	347	75	285
Phillips, George H., Geneva, N. Y. Grate	562,790	Oct. 6	135	33	77	28

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Phillips, George P. (See Hill, Hally P., assignor.)						
Phillips, Harry C., assignor to Rochester Bicycle Combination Holder Company, Rochester, N. Y. Luggage-carrier	565,563	Aug. 11	1131	273	76	845
Phillips, Harry S. (See Weaver and Phillips.)						
Phillips, Henry, and W. Hunt, Ottumwa, Iowa. Car-loader	570,880	Nov. 3	839	195	77	796
Phillips, Henry J., Cranford, N. J. Range-shield	572,715	Dec. 8	1111	269	77	1509
Phillips, Hugh B. (See Jordan and Phillips.)						
Phillips, James R. (See Daellenbach and Phillips.)						
Phillips, James S. (See Graff, Conrad, assignor.)						
Phillips, John W. (See McClurg and Phillips.)						
Phillips, Joseph H., Cincinnati, Ohio. Water-heater	559,040	Apr. 28	2682	653	75	554
Phillips, Samuel L., Washington, D. C. Traveling contact or plow for underground electric railways	562,483	June 23	2479	601	75	1896
Phillips, Samuel L., Washington, D. C. Traveling contact for underground electric railways	562,484	June 23	2480	602	75	1897
Phillips, Thomas E., Bloomington, Ind., assignor of one-half to W. J. Hand and J. J. H. Hamilton, Scranton, Pa. Sliver-forming machine	557,427	Mar. 31	3477	833	74	1852
Phillips, Thomas H., St. Davids, Pa. Impact-tool	557,084	Mar. 24	2840	677 678 679	74	1713
Phillips, Thomas H., St. Davids, Pa. Impact-tool	561,030	May 26	3080	710 711	75	1337
Phillips, William G., Hopedale, Ill. Stay-wire-winding machine	568,791	Oct. 6	137	33	77	28
Phillips, Winfield B., Fenton, Mich. Window-screen	562,095	June 16	1841	447	75	1760
Phillips, Clarence L., and H. E. McCoy, Pittsburg, Pa. Ice-cream mold and disher	568,274	Sept. 22	2709	649	76	1828
Phillips, Ross, Springfield, Ohio. Wire fence	557,017	Mar. 24	2747	651	74	1693
Philpott, Horatio V., Buffalo, Tex. Gate	571,237	Nov. 10	1457	342	77	937
Philpott, William A., Jr. (See Briggs and Philpott.)						
Phinney, Charles H. (See Eaton, Howard F., assignor.)						
Phinney, Edgar E., Haverhill, Mass. Car-fender	573,352	Dec. 15	2242	536	77	1740
Phinney, Etta W., and E. E. Adams, said Phinney assignor to M. E. Whitney, Deering, Me. Guard for open street-cars	563,209	June 30	3795	910	75	2168
Phinney, Etta W., Deering, Me., and L. Trinder, Boston, Mass., said Phinney assignor to M. E. Whitney, Deering, Me. Running-board guard for street-cars	573,914	Dec. 29	3280	785	77	1968
Phinney, Horatio, Providence, R. I. Car-signal	571,885	Nov. 24	2588	614	77	1181
Phinney, William B., assignor to O. T. Stacy, Rochester, N. Y. Machine for coating confectionery	557,426	Mar. 31	3472	832 833	74	1851
Phipps, Edward H., New Haven, Conn. Machine for making cement-lined pipes	556,160	Mar. 10	1206	282	74	1373
Phipps, Edward L., Milford, Mich. Refrigerator	572,822	Dec. 8	1293	311	77	1543
Phipps, Edward L., Milford, assignor of one-half to W. H. Girdler, Detroit, Mich. System for protecting buildings from fire	564,534	July 21	2259	530	76	446
Phoenix Gas and Improvement Company. (See Janeway, John L., assignor.)						
Phoenix Interior Telephone Company. (See Sutton, George W., assignor.)						
Phoenix Iron Works Company. (See Armstrong, George A., assignor.)						
Piaget, Louis A., Paterson, N. J. Folding table	553,721	Jan. 28	2210	524	74	456
Piaget, Louis A., Paterson, N. J. Diamond-tweezers	573,036	Dec. 15	1665	399	77	1635
Piatti, William M., West Liberty, Ohio. Corn-harvester	565,026	Aug. 4	115	27, 28	76	639
Piatti, Paul J., assignor of one-third to O. A. Groeber, Woodside, N. Y. Combined coat and hat hanger and lock	570,228	Oct. 27	2656	630	77	542
Picard, Ludovic, Paris, France. Drawing instrument	559,041	Apr. 28	2683	654	75	555
Piceni, Gaetan. (See Le Biois and Piceni.)						
Picher, Oliver H. (See Petraeus, Carl V., assignor.)						
Picher, Oliver H., Joplin, Mo. Treating complex ores of lead and zinc	554,725	Feb. 18	1629	385	74	842
Pick, Frank, et al. (See Warn, Edward T., assignor.)						
Pickard, Elias A. (See Desmond, John, assignor.)						
Pickard, Horace, et al. (See Temple, William J., assignor.)						
Pickenpack, Hans H., Brooklyn, N. Y. Rigging-stretcher	554,834	Feb. 18	1821	426 427	74	879
Pickens, Robert F., Delhi, Mo. Duplex mirror	567,163	Sept. 8	765	179	76	1439
Pickering, Abel W., Lock, Ky. Pumping and drilling machine	565,634	Aug. 11	1257	303	76	869
Pickering, Charles H., assignor to himself and J. A. Stewart, Houston, Tex. Cotton-harvester	555,118	Feb. 25	2350	559	74	992
Pickering, Samuel H., Norristown, Pa. Stone-dressing tool	558,739	Apr. 21	2153	519	75	438
Pickernell, Frank A., Newark, N. J., assignor to American Telephone and Telegraph Company, of New York. Apparatus for composite transmission of intelligence	558,310	Apr. 14	1413	348	75	285
Pickernell, Frank A., Newark, N. J., and F. S. Perrin, New York, N. Y., assignors to American Telephone and Telegraph Company, of New York. Multiple telephony	560,861	May 26	2800	643	75	1285
Pickett, Luella S., Nevada, Iowa. Attachment for chairs	553,359	Jan. 21	1586	378	74	324
Pickett, Mary E. (See Pickett, William H., assignor.)						
Pickett, Rufus S., New Haven, Conn. Book-mark	571,453	Nov. 17	1811	433	77	1019
Pickett, William H., Warren, assignor to Blakey Manufacturing Company, Pittsburg, Pa. Pipe-thread protector	562,339	June 16	2251	545	75	1837
Pickett, William H., assignor, by mesne assignments, to M. E. Pickett, Warren, Pa. Chain pipe-wrench	568,697	Sept. 29	3475	832	76	1966
Pickford, William, Eldorado, Kans. Wire stretcher and tightener	563,409	July 7	291	66	76	58
Pickhardt, Emile, Islington, Mass. Garter or other garment-holding device	554,304	Feb. 11	909	210	74	699
Pickle, Gabriel A., Eagle Lake, Minn. Fire-guard and soot-catcher	558,101	Apr. 14	1066	262	75	218
Pickles, Charles K., assignor, by mesne assignments, to J. V. Pickles, St. Louis, Mo. Manufacture of cigarettes	569,052	Oct. 6	582	133	77	111
Pickles, Charles K., St. Louis, Mo., assignor to J. J. McCarthy, Chicago, Ill. Brake-beam	569,666	Oct. 20	1655	391	77	344
Pickles, Charles K., St. Louis, Mo., assignor to J. J. McCarthy, Chicago, Ill. Brake-beam	569,667	Oct. 20	1656	391	77	344
Pickles, J. V. (See Pickles, Charles K., assignor.)						
Pickring, Charles, Richmond, Canada. Smoke-stack	570,144	Oct. 27	2508	594	77	513
Pidgeon, Harry W. (See Hollar and Pidgeon.)						
Piedfort, Alfred, Paris, France. Receiver for submarine telegraphs	573,266	Dec. 15	2119	509	77	1718
Piel, Jean, assignor to F. Pearce, New York, N. Y. Telephone system	563,614	July 7	640	149	76	120
Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)						
Pieper, Gustav A., Rotterdam, Netherlands. Preparing cocoa	571,238	Nov. 10	1459		77	938
Pieper, Henry, Liege, Belgium. Cartridge-pocket	567,358	Sept. 8	1122	270	76	1501
Pieper, Oscar H., Rochester, N. Y. Regulator for electric motors	558,517	Apr. 21	1780	433	75	370
Pieper, Oscar H. and A. F., San José, Cal. Dental engine	562,742	June 23	2930	711	75	1981

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Pierce, Albert F. (See Murphy, John M., assignor.)						
Pierce, Albert F. (See Murphy and Pierce.)						
Pierce, Andrew J., Racine, Wis. Igniting device for gas-engines	564,642	July 28	2463	580	76	502
Pierce, Andrew J., Racine, Wis. Gas-engine	564,643	July 28	2464	580	76	503
Pierce, Arthur M. (See Fayette, Henry W., assignor.)						
Pierce, C. J., <i>et al.</i> (See Clement, Robert B., assignor.)						
Pierce, C. J., <i>et al.</i> (See Yeakey, Robert L., assignor.)						
Pierce, Charles W., <i>et al.</i> (See Thompson, Herschel G., assignor.)						
Pierce, Charles W., Oak Hill, N. Y. Antifriction shaft-bearing	559,537	May 5	324	77	75	745
Pierce, Charles W., Oak Hill, N. Y. Grindstone-fixture	567,504	Sept. 8	1356	326	76	1544
Pierce, Clarence S. <i>et al.</i> (See Thompson, Herschel G., assignor.)						
Pierce-Crouch Engine Company. (See Crouch, Walker L., assignor.)						
Pierce, Edgar R. M., Chicago, Ill. Car-door	555,969	Mar. 10	837	199	74	1306
Pierce, Frank M., and A. C. Warner, Allentown, Ill. End-gate	573,794	Dec. 22	3055	724	77	1912
Pierce, George L., and J. E. Parks, Brooklyn, N. Y. Bicycle-saddle	568,626	Sept. 29	3344	801	76	1960
Pierce, Harley L., Belleville, Kans. Stove-shield	559,083	Apr. 28	2745	667	75	567
Pierce, J. P., <i>et al.</i> (See Yeakey, Robert L., assignor.)						
Pierce, James H., West Bay City, Mich. Pipe-wrench	573,999	Dec. 29	3451	826	77	1998
Pierce, Joseph H., Bloomington, Ill. Water-filter	562,151	June 16	1926	468	75	1777
Pierce, Kirk D. (See Merrill and Butler, assignors.)						
Pierce, Kirk D., <i>et al.</i> (See Freeman, Charles M., assignor.)						
Pierce, Kirk D., <i>et al.</i> (See Paige, George W., assignor.)						
Pierce, Kirk D., <i>et al.</i> (See Pease, Charles, assignor.)						
Pierce, Lucius S., Red Cliff, Colo. Combined separator and amalgamator	560,750	May 26	2587	596 597	75	1243
Pierce, Reginald H., Abu Road, India. Rail-joint	552,775	Jan. 7	504	124	74	95
Pierce, Thomas H. B., Dexter, Me. Adjustable leg for tripods	565,216	Aug. 4	494	118	76	708
Pierce, Walter S., New York, N. Y. Apparatus for extracting oil	556,065	Mar. 10	1036	247	74	1340
Pierce, Walter S., New York, N. Y. Rendering apparatus	556,066	Mar. 10	1038	247	74	1341
Pieron, Max. (See Dokkenwadel, Friedrich G., assignor.)						
Pierpont, Bradford, <i>et al.</i> (See McCollom, William J., assignor.)						
Pierson, Henry M., Brooklyn, N. Y. Process of and apparatus for manufacturing gas	558,740	Apr. 21	2155	519 520	75	438
Pierson, John R. (See Holland and Glazier, assignors.)						
Pietri, Antoine J. B., Paris, France. Shaft for vehicles	560,534	May 19	2159	493	75	1148
Pihlfeldt, Olaf, Birmingham, England. Cycle-pedal	557,507	Mar. 31	3619	867	74	1878
Pike, Charles F., Philadelphia, Pa. Switch for pneumatic-despatch tubes	562,022	June 16	1704	414	75	1737
Pike, Charles F., Philadelphia, Pa. Carrier for pneumatic-despatch tubes	562,023	June 16	1706	415	75	1737
Pike, Charles F., Philadelphia, Pa. Pneumatic-despatch-tube system	566,013	Aug. 18	1963	475 476	76	1024
Pike, Charles F., Philadelphia, Pa. Curved tube for pneumatic-despatch-tube systems	566,014	Aug. 18	1965	476	76	1024
Pike, Charles F., Philadelphia, Pa. Pneumatic-despatch-tube system	566,015	Aug. 18	1967	476	76	1024
Pike, Charles F., Philadelphia, Pa. Pneumatic-despatch tube	566,016	Aug. 18	1968	477	76	1025
Pike, Charles F., Philadelphia, Pa. Electric despatch system	566,532	Aug. 25	2875	699	76	1211
Pike, Charles F., Philadelphia, Pa. Ore washer and separator	566,533	Aug. 25	2878	699 700 701	76	1211
Pike, Charles F., Philadelphia, Pa. Ore washer and separator	566,534	Aug. 25	2880	701	76	1212
Pike, Charles F., Philadelphia, Pa. Switch for pneumatic-despatch tubes	567,654	Sept. 15	1614	388 389	76	1609
Pike, Charles F., Philadelphia, Pa. Pneumatic-despatch-tube system	568,490	Sept. 29	3067	738	76	1909
Pike, Charles F., Philadelphia, Pa. Pneumatic-despatch tube	573,037	Dec. 15	1666	400	77	1635
Pike, Daniel, New Orleans, La. Device for launching boats	555,018	Feb. 18	2155	513 514	74	939
Pike, Edward N., Orangeville, Canada. Can-opener	567,722	Sept. 15	1720	413	76	1629
Pike, Edwin B., Haverhill, N. H. Bicycle attachment	570,681	Nov. 3	491	115	77	730
Pike, William L., Groton, N. Y. Combined funnel, strainer, and clothes-sprinkler	559,905	May 12	1033	229	75	890
Pilkington, Joseph H., Waterbury, Conn. Garment-supporter	560,642	May 26	2411	552	75	1209
Pilkington, Richard, London, England. Optical toy	567,863	Sept. 15	1965	471	76	1677
Pilkington, Robert G., St. Louis, Mo. Apparatus for dressing or polishing rolls	573,528	Dec. 22	2580	612 613	77	1820
Pillings, George T., Cincinnati, Ohio, assignor to J. G. Beck, Baltimore, Md. Can-soldering machine	569,765	Oct. 20	1856	439 440	77	377
Pilz, Ernst E., Schletttau, Germany. Transparent transfer-picture	553,539	Jan. 28	1891		74	399
Pimlott, Charles H. (See Plack and Pimlott.)						
Pinchetti, Enrico, Lugano, Switzerland. Medical thermometer	559,205	Apr. 28	3009	727	75	618
Pinckert, Wilhelm, Stettin, and C. Prutz, Stargard, Germany. Railway-car coupling	569,668	Oct. 20	1658	391 392	77	344
Pinckney, Elmer E. E., West Troy, N. Y. Bracket for window shades and curtains	562,910	June 30	3249	784	75	2061
Pindstoffe, Anders A., Copenhagen, Denmark. Gas-regulator	562,340	June 16	2252	545	75	1837
Pine, Charles C., New York, N. Y. String-fastener	559,206	Apr. 28	3010	728	75	618
Pine, James K. P., Lansingburg, assignor to United Shirt and Collar Company, Troy, N. Y. Collar	552,619	Jan. 7	199	55	74	39
Pineo, Aubrey M., Gardner, Mass. Machine for setting saw-teeth	569,766	Oct. 20	1857	440	77	378
Pingel, Albert R., London, Canada. Car-axle lubricator	555,827	Mar. 3	564	135 136	74	1233
Pinkham, George F. (See Swendeman, Joseph E., assignor.)						
Pinkney, Charles W., Smethwick, assignor of one-half to Tangyes, Limited, Birmingham, England. Apparatus for producing gas	568,038	Sept. 22	2284	553	76	1748
Pinkney, Charles W., Smethwick, assignor to Tangyes, Limited, Birmingham, England. Internal-combustion engine	571,239	Nov. 10	1460	342 343	77	938
Pinolet, Louis M. (See Taylor, Walter F., assignor.)						
Pinover, Alexander, New York, N. Y. Vehicle-wheel	566,618	Aug. 25	2996	731	76	1235
Piotrowski, Stonny, Holyoke, Mass. Lock	567,687	Sept. 15	1663	400	76	1619
Piper, Charles E., Laconia, N. H. Currycomb	572,063	Nov. 24	2899	684	77	1240
Piper, Edwin S., assignor to F. Brainard, Bristol, Conn. Cork-extractor	556,554	Mar. 17	1957	456	74	1528
Piper, William M., Allegheny, Pa. Draft-rigging	566,935	Sept. 1	344	80	76	1348
Pirch, August, Los Angeles, Cal. Wagon-brake	557,699	Apr. 7	310	74	75	59
Pirach, Oscar, Liege, Belgium. Electrode for secondary batteries	556,769	Mar. 24	2313	544	74	1612
Pissinger, Josef, Munich, Germany. Water-gage glass	572,181	Dec. 1	152	37	77	1307
Pitchford, John B., San Francisco, Cal. Cut-off valve for engines	555,397	Feb. 25	2834	667 668	74	1083
Pitiot, Theophile J. B., Marseilles, France. Knockdown box	571,790	Nov. 24	2417	576	77	1150
Pitkethly, Alexander, Boston, assignor to F. W. Parsons, Osterville, Mass. Automatic brake-slack adjuster	564,220	July 21	1736	406 407	76	352

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Pitney, Albert L., Washington, D. C. Gas heating-stove.	554,197	Feb. 4	714	162	74	636
Pitney, Sanford C., and G. M. Gardner, assignors of one-third to D. A. Sweet, Quincy, Ill. Clay post.	558,418	Apr. 14	1591	388	75	317
Pitschner, Charles, Jr., Dubuque, Iowa. Crib.	557,698	Apr. 7	309	74	75	58
Pittavino, Giovanni B., New York, N. Y. Stock and barrel extension for pistols or revolvers.	570,145	Oct. 27	2509	595	77	514
Pittenger, John F., and Z. B. Brelsford, Laddonia, Mo. Canopy for horses.	554,792	Feb. 18	1746	409	74	864
Pittet, Felix G., Paterson, N. J. Flower stand or shelf.	557,875	Apr. 7	619	147	75	117
Pittis, Charles D., St. Joseph, Mo. Clamp.	573,287	Dec. 15	2120	509	77	1718
Pittman, Clyde L., Cantril, Iowa. Apparatus for use in poultry-houses.	553,016	Jan. 14	966	234	74	195
Pittman, Moses S., Independence, Mo. Railway-switch.	565,921	Aug. 18	1786	435	76	987
Pittman, Moses S., assignor of one-half to J. W. Wood, Independence, Mo. Stationary railway-switch.	568,957	Oct. 6	412	92	77	78
Pittman, Reinhart W. (See Christiansen and Pittman.)						
Pittman, W. R. (See James, Edward B., assignor.)						
Pittman, William D., assignor to Drummond Tobacco Company, St. Louis, Mo. Box for cigarettes.	554,140	Feb. 4	627	141	74	619
Pitts, Joseph W., Augusta, Ga. Spike-extractor.	558,102	Apr. 14	1067	262	75	219
Pittsburg Meter Company. (See Rund and Holmes, assignors.)						
Pittsburg Mineral Screen Company. (See Poorbaugh, Phillip F., assignor.)						
Pittsburgh Brass Company. (See Hoerle, William M., assignor.)						
Pittsburgh Crushed Steel Company. (See Kann, Myer M., assignor.)						
Piutti, Arnaldo, Naples, Italy, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Paraethoxyphenylsuccinamic acid and making same.	569,425	Oct. 13	1219		77	247
Place, James F., Montclair, N. J., assignor of one-half to C. S. Upton, New York, N. Y. Electric traction-motor.	559,342	Apr. 28	3263	788 789	75	664
Place, James F., Montclair, N. J., assignor of one-half to C. S. Upton, New York, N. Y. Electric cable conductor and sheave-wheel.	566,697	Aug. 25	3119	762	76	1257
Place, James F., Montclair, N. J., and E. D. Terry, Brooklyn, N. Y. Bicycle-lamp.	562,319	June 16	2205	536	75	1830
Place, Phil S., Alfred, N. Y. Clay-separator.	572,311	Dec. 1	401	95	77	1355
Placet, Emile, and J. Bonnet, Paris, France, assignors to Electro Metallurgical Company, Limited, London, England. Introducing chrome into metals or alloys.	573,615	Dec. 22	2732		77	1851
Plack, Henry, Jr., and C. H. Pimlott, Johnstown, Pa. Umbrella.	570,857	Nov. 3	798	183	77	787
Plano Manufacturing Company. (See Carver, George H., assignor.)						
Plano Manufacturing Company. (See Macphail, James, assignor.)						
Plant, James T., Monticello, Minn. Merchant's coupon-book.	560,535	May 19	2160	494	75	1148
Plante, Peter. (See Rangey and Plante.)						
Plass, Reuben H., Brooklyn, N. Y. Self-propelling vehicle.	570,952	Nov. 10	967	225	77	847
Plass, Reuben H., Brooklyn, N. Y. Self-propelling vehicle.	571,392	Nov. 17	1712	407 408	77	1000
Plath, Oscar, Chicago, Ill. Automatically-actuated fishing-rod holder.	562,195	June 16	2004	485	75	1792
Platt, Clark M. (See White and Platt.)						
Platt, Clark M., Waterbury, Conn. Machine for attaching buttons to cloth.	567,505	Sept. 8	1357	327	76	1544
Platt, Clark M., Waterbury, Conn. Button.	568,546	Sept. 29	3195	770	76	1932
Platt, Edward T., Washington, D. C. Index for rate-tables.	553,316	Jan. 21	1509	361 362	74	310
Platt, Irving G. (See White and Platt.)						
Platt, Irving G., Waterbury, Conn. Button.	559,906	May 12	1034	229	75	890
Platt, James F. (See Tracy and Platt.)						
Platt, John A., Augusta, Ga. Rotary razor stropping and honing apparatus.	553,625	Jan. 28	2038	482	74	425
Platt, John D., assignor of one-half to F. G. Kelsey, Fort Plain, N. Y. Door-check.	559,600	May 5	425	101	75	765
Platt, Lewis A., et al. (See Salisbury, George P., assignor.)						
Platte, George D., Henderson, Ky., assignor of two-thirds to C. W. Sheldon, Forest, and P. Nommeusen, Wilson, Ill. Compound for producing artificial fuel, &c.	561,725	June 9	1195		75	1621
Platz, Charles, New York, N. Y. Railway-spike.	553,626	Jan. 28	2039	482	74	425
Platz, Frank A., Brooklyn, assignor of one-half to M. Benedik, New York, N. Y. Shirt-waist.	570,051	Oct. 27	2332	553	77	480
Playford, George, Jr., Cleveland, Ohio. Mechanical-stoker furnace.	570,268	Oct. 27	2737	651	77	557
Playford, George, assignor to Playford Stoker Company, Cleveland, Ohio. Furnace.	558,206	Apr. 14	1234	301	75	250
Playford Stoker Company. (See Playford, George, assignor.)						
Playford Stoker Company. (See Tibbitts, Madison, and Allen, assignors.)						
Pleasants, Edward L. (See Moran, James T., assignor.)						
Plechner, Richard, New York, N. Y. Producing elastic fabrics.	554,535	Feb. 11	1299	306	74	762
Pledger, Junius L., Pelham, Ala. Car-coupling.	571,622	Nov. 17	2107	505	77	1072
Plains, Leo H., et al. (See Plains, Rudolph C., assignor.)						
Plains, Rudolph C., assignor of one-half to L. H. Plains and J. C. Bramwell, St. Paul, Minn. Lacing-eyelet.	564,579	July 21	2352	553	76	462
Plenty, Joseph, and J. H. Miller, Jersey City; said Miller assignor to H. Berg, Orange, N. J. Boiler.	555,880	Mar. 3	667	159	74	1253
Plenty, Josephus, Jersey City, N. J. Plow.	562,485	June 23	2481	602	75	1897
Pless Dredging and Reclamation Company. (See Pless, William B., assignor.)						
Pless, William B., San Francisco, Cal., assignor to Pless Dredging and Reclamation Company. Dredging apparatus.	572,769	Dec. 8	1205	291 292	77	1526
Pletcher, Levi L., McConnellsville, Ohio. Combined hinge and catch.	555,583	Mar. 3	167	39	74	1161
Pletcher, Levi L., McConnellsville, assignor of one-half to H. A. and J. F. Davis, Malta, Ohio. Fastener and hinge for coffins, boxes, &c.	557,602	Apr. 7	128	33	75	25
Pleuger & Henger Manufacturing Company. (See Sanders, Barney H., assignor.)						
Plenkharp, James, Columbus, Ohio. Hand-truck.	555,584	Mar. 3	168	39	74	1161
Plumb, Albert M., Denver, Colo. Rock-drill.	568,698	Sept. 29	3478	832	76	1986
Plumb, George E. (See Post, Adelbert E., assignor.)						
Plumb, J. H., et al. (See Sparks, Charles, assignor.)						
Plumbers' Supplies Manufacturing Company. (See Brinkman, Louies H., assignor.)						
Plumbly, Frederic K., assignor to Buffalo Steel House Company, Buffalo, N. Y. Garbage and excrement crematory.	567,506	Sept. 8	1358	327	76	1544
Plumer, Eugene C., Columbia, S. C. Water-elevator.	560,146	May 12	1470	332	75	974
Plumley, Raymond L. (See Frederick and Plumley.)						
Plumley, Raymond L., assignor to Trump Bros. Machine Company, Wilmington, Del. Clamping device for buttonhole-sewing machines.	567,723	Sept. 15	1720	413	76	1629
Plummer, Charles E., Winchendon, Mass. Dumping-wagon.	561,432	June 2	660	162	75	1495
Plummer, Frank O., assignor to himself and E. W. Ham, Worcester, Mass. Electric gas-lighting apparatus.	562,850	June 30	3140	760	75	2039
Plummer, John F., et al., trustees. (See Durio, Jacques, assignor.)						
Plummer, William S., St. Louis, Mo. Can-filling machine.	569,030	Oct. 6	539	124 125	77	102

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Plunkett, Christopher F. (See Atkinson and Plunkett.)						
Pneumatic Engineering Company. (See Titus, Silas W., assignor.)						
Pneumatic Press Company. (See Hull, Wolcott A., assignor.)						
Pneumatic Tyre and Booth's Cycle Agency. (See Welch, Charles K., assignor.)						
Pneumatic Tyre Company. (See Welch, Charles K., assignor.)						
Pocock, Caroline S., London, England. Mechanical toy and advertising-machine	571,015	Nov. 10	1074	250	77	866
Poe, George M., and W. C. Slatts, Indianapolis, Ind. Bicycle-lock	558,981	Apr. 23	2575	626	75	535
Poehnert, Edward, Rockville, Conn. Loom	571,956	Nov. 24	2719	643	77	1207
Poepping, H. Noel. (See Reece and Primm, assignors.)						
Poertner, Henry A., St. Louis, Mo. Dowel-hole-boring machine	568,320	Sept. 22	2781	669	76	1842
Pogue, Henry W., Findlay, Ill. Brace for wagon-bodies	565,177	Aug. 4	428	103	76	696
Pohl, Hermann. (See Vorpahl and Pohl.)						
Pohlé, Edwin C., <i>et al.</i> , administrators. (See Pohlé, Julius G.)						
Pohlé, Julius G., deceased, New York, N. Y.; E. C. Pohlé, Denver, Colo., and E. M. English, New York, N. Y., administrators. Apparatus for elevating liquids	556,436	Mar. 17	1749	406	74	1490
Pohlitz, Julius, Cologne, Germany. Cable-grip	565,027	Aug. 4	118	28	76	640
Poiesz, William F. (See Cuscaden and Poiesz.)						
Poindexter, Robert E. (See Dahl and Poindexter.)						
Poindexter, Robert E., Indianapolis, Ind. Crosscut-saw	553,071	Jan. 14	1068	260	74	214
Poindexter, Robert E., Indianapolis, Ind. Combined weather-boarding and try-square	573,795	Dec. 22	3057	724	77	1912
Poindexter, William M., Washington, D. C. Supporting shelving, &c.	567,002	Sept. 1	476	110	76	1371
Poindexter, William M., Washington, D. C. Bookcase	567,003	Sept. 1	478	111	76	1372
Point, Pierre M., Lyons, France. Heddle-machine	554,374	Feb. 11	1022	237	74	710
Pointon, Charles E. (See Lewis and Pointon.)						
Poirot, Celestin, Erie, Pa. Screw-plate	567,408	Sept. 8	1203	288	76	1517
Poirrier, Alcide F., Paris, France. Sulfureted dye	561,276	June 2	343		75	1436
Poirrier, Alcide F., assignor to Société Anonyme des Matières Colorantes et Produits Chimiques de St. Denis, Paris, France. Sulfureted dye	561,277	June 2	345		75	1436
Poitrimol, René A. (See Girardet, Pierre L., assignor.)						
Poitrimol, René A., Paris, France. Hydrocarbon-burner	557,225	Mar. 31	3108	{ 745 746 }	74	1782
Pokrantz, Charles L. J., and J. C. de St. Hubert, San Francisco, Cal. Faucet and air-inlet attachment	568,921	Oct. 6	345	80	77	66
Pole, Benjamin C., Washington, D. C. Street-car motor	561,433	June 2	662	{ 162 163 164 }	75	1496
Poley, Thomas, Brooklyn, N. Y. Rail-joint	560,536	May 19	2161	494	75	1148
Poling, George C., Harlan, Iowa. Fastener for overshoes	553,933	Feb. 4	245	53	74	550
Politsky, Simon A., Boston, Mass. Car-fender	555,119	Feb. 25	2354	560	74	992
Politsky, Simon A., Boston, Mass. Car-fender	557,226	Mar. 31	3110	746	74	1782
Politsky, Simon A., Boston, Mass. Car-fender	558,982	Apr. 28	2576	626	75	535
Polk, Austin J., Chicago, Ill. Bicycle-support	558,103	Apr. 14	1068	262	75	219
Polke, Josef. (See Klinger, Richard, assignor.)						
Polke, Josef, Vienna, Austria-Hungary. Barrel-machine	573,915	Dec. 29	3282	785	77	1968
Pollak, Carl, Frankfort-on-the-Main, Germany. Current-straightening commutator	558,983	Apr. 28	2577	{ 626 627 }	75	535
Pollard, Enos C., Holt, assignor to himself, J. M. Lynch, and W. Read, of Columbia Falls, Mont. Bottle	566,619	Aug. 25	2997	731	76	1235
Pollard, Frederick, Cleveland, Ohio. Show-window	561,339	June 2	491	{ 123 124 }	75	1465
Pollard, Frederick, Cleveland, Ohio. Bracket for show-cases	568,039	Sept. 22	2285	553	76	1748
Pollard, Frederick E., Worcester, Mass. Fireproof shutter	553,540	Jan. 28	1892	447	74	399
Pollard, Frederick E., Worcester, Mass. Wardrobe	554,397	Feb. 11	1057	247	74	716
Pollard, James H., Clarence, Mo. Folding shipping-crate	573,529	Dec. 22	2582	613	77	1820
Pollard, James M., Washington, D. C. Cotton-seed delinter	565,793	Aug. 11	1543	376	76	923
Polley, Isabella M., Simcoe, Canada. Rein-supporter	564,221	July 21	1739	407	76	353
Polleys, Charles G., Newport, R. I. Brake	569,124	Oct. 6	694	162	77	132
Pollock, George, Baltimore, Md. Leather-folding machine	557,341	Mar. 31	3324	798	74	1822
Pollock, James, Millburn, Ill. Tire-tightening washer	573,616	Dec. 22	2733	649	77	1851
Pollock, Robert H., <i>et al.</i> (See Patterson, Milton, assignor.)						
Polmateer, William A., Johnstown, N. Y. Trimming attachment for sewing-machines	561,813	June 9	1347	321	75	1649
Polsdorfer, F. C., <i>et al.</i> (See Northall, William H., assignor.)						
Polsdorfer, H. B., <i>et al.</i> (See Northall, William H., assignor.)						
Polsdorfer, J. H., <i>et al.</i> (See Northall, William H., assignor.)						
Polsdorfer, W. H., <i>et al.</i> (See Northall, William H., assignor.)						
Polsgrove, Amelia D., Huntingdon, Pa. Holder for scissors	566,277	Aug. 18	2378	582	76	1101
Polzin, Emil. (See Sommer and Polzin.)						
Pond, Goldsburly H. (See Wolf and Pond.)						
Pond, Nathan C., Port Chester, N. Y. Seal-padlock	569,387	Oct. 13	1159	275	77	237
Pond, William S. (See Bailey and Pond.)						
Pontious, Cornelius F., Plymouth, Ind. Ball-bearing	554,004	Feb. 4	368	80	74	572
Pool, John F., Friendsville, Ill. Sash-fastener	554,305	Feb. 11	911	210	74	689
Poole, Frederick F., Newark, N. J. Feeding device for hat-forming machines	556,861	Mar. 24	2463	580	74	1640
Poole, Jacob O., Newark, assignor of one-half to E. P. Backus, East Orange, N. J. Drawing-board	564,840	July 28	2791	665	76	561
Poole, Staley D., assignor to Deere & Company, Moline, Ill. Cultivator	554,952	Feb. 18	2026	{ 479 480 }	74	916
Poole, Washington I. (See Morton, Eugene J., assignor.)						
Pooley, Edward F., Philadelphia, Pa. Lid-support	564,574	July 21	2338	549	76	460
Poor, George H., Boston, Mass., assignor of one-half to G. H. Libby, Portland, Me. Movable arm-support for cars	567,655	Sept. 15	1616	389	76	1609
Poorbaugh, Phillip F., Allegheny, assignor to Pittsburg Mineral Screen Company, Pittsburg, Pa. Percussion-screen	552,585	Jan. 7	141	39	74	28
Poore, James M., Spring Valley, Minn. Seeder	567,359	Sept. 8	1123	270	76	1501
Pope, Adrian D. (See Shepard and Pope.)						
Pope, Charles, Chicago, Ill. Apparatus for manufacturing glucose or sugar from starch	570,183	Oct. 27	2576	612	77	527
Pope, Charles E., Lyons Falls, N. Y. Machine for splitting and winding paper	567,164	Sept. 8	766	{ 179 180 }	76	1439
Pope, Curran. (See Trabue, William, assignor.)						
Pope, John C. and W. J., Fox, Ill. Wire-fabric machine	567,360	Sept. 8	1126	{ 270 271 }	76	1502
Pope, John L., Cleveland, Ohio. Rail-joint	568,699	Sept. 29	3479	832	76	1987

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Pope Manufacturing Company. (See Copeland, James S., assignor.)						
Pope Manufacturing Company. (See Fowler, Harry P., assignor.)						
Pope Manufacturing Company. (See Latta, Emmitt G., assignor.)						
Pope Manufacturing Company. (See Lorenz, William A., assignor.)						
Pope Manufacturing Company. (See Mortson, George, assignor.)						
Pope Manufacturing Company. (See Rice, Charles D., assignor.)						
Pope Manufacturing Company. (See Stevens, John C., assignor.)						
Pope Manufacturing Company. (See Weber, Bruno, assignor.)						
Pope, William J. (See Pope, John C. and W. J.)						
Porath, Frank, Appleton, Wis. Electrical annunciator.....	555,120	Feb. 25	2355	560	74	993
Porcher, Emile A., Paris, France, and J. Winterlood, London, England. Automatic water-heating apparatus.....	556,641	Mar. 17	2088	489	74	1552
Porcher, Ernest. (See Blondel and Porcher.)						
Porsch, Ottokar, Orangeburg, assignor to Electric Chemical Company, New York, N. Y. Making chloroform and apparatus therefor.....	573,483	Dec. 22	2508	595	77	1807
Porteous, George, Guelph, Canada. Sportsman's cabinet.....	553,072	Jan. 14	1069	260	74	214
Porteous, James, Fresno, Cal. Combined plow and seeder.....	568,100	Sept. 22	2413	582	76	1772
Porteous, John, Cincinnati, Ohio. Ball-cock valve.....	573,530	Dec. 22	2583	613	77	1821
Porter, Benjamin, Ellendale, N. D. Buggy-jack.....	565,028	Aug. 4	119	29	76	640
Porter, Benjamin, Ellendale, N. D. Bicycle handle-bar.....	566,794	Sept. 1	97	24	76	1298
Porter, Benjamin, Ellendale, N. D. Adjustable bicycle handle-bar.....	569,349	Oct. 13	1098	260	77	226
Porter, Benjamin, assignor of one-half to F. L. Walker, Ellendale, N. D. Oil-can.....	554,306	Feb. 11	912	210	74	689
Porter, Daniel R., Chelsea, assignor to S. May, Jr., Boston, Mass. Pipe-wrench.....	556,834	Mar. 24	2421	569	74	1632
Porter, Daniel R., Chelsea, assignor to A. T. Hayward, Revere, Mass. Bag-tie.....	557,083	Mar. 24	2339	677	74	1713
Porter, David W., Allegheny, Pa. Mechanism for manufacturing car-axles.....	570,499	Nov. 3	113	28	77	659
Porter, George J., Medford, Mass. Apparatus for drawing off liquids.....	554,894	Feb. 18	1933	455	74	899
Porter, George M. (See Gillespie, John, assignor.)						
Porter, George S., et al. (See Burkhardt, Robert W., assignor.)						
Porter, Henry H., Dowagiac, Mich. Combined vehicle box and spindle.....	559,146	Apr. 28	2908	702	75	597
Porter, James S., assignor, by mesne assignments, of five-sixths to himself, P. W. Springer, and P. T. Einhellig, Buffalo, N. Y. Carburetor.....	563,799	July 14	958	228	76	196
Porter, James T., assignor of one-half to J. J. Curran, Holyoke, Mass. Track-sanding device for cars.....	563,237	June 30	3837	920	75	2175
Porter, John C., St. Louis, Mo. Acetylene-gas generator.....	562,911	June 30	3250	785	75	2061
Porter, John C., St. Louis, Mo. Gas-generator.....	571,576	Nov. 17	2030	483	77	1058
Porter, John G. (See Galligan, Thomas, assignor.)						
Porter, John M. (See Taylor, Zachariah A., assignor.)						
Porter, Joseph E. (See Thomas, John W., assignor.)						
Porter, Joseph E., Ottawa, Ill. Hay carrier and elevator track.....	554,198	Feb. 4	716	162	74	636
Porter, Joseph E., Ottawa, Ill. Rail for hay-carriers, &c.....	570,334	Oct. 27	2893	687	77	585
Porter, Joseph Y., Cleveland, Ohio. Railway-switch.....	556,323	Mar. 10	1528	356 357	74	1433
Porter, Joseph Y., Cleveland, Ohio, assignor to J. W. Morrison, Detroit, Mich. Derailing-switch.....	556,317	Mar. 10	1518	353	74	1430
Porter, Stephen, assignor to M. A. Kent, Boston, Mass. Spring-fastener.....	564,761	July 28	2670	635	76	539
Porter, William, assignor to E. Thorpe, Birmingham, England. Lamp and lamp-stove.....	564,098	July 14	1521	355 356	76	299
Porter, William A. (See Stolz, Charles, assignor.)						
Porter, Wilson E., assignor to New Haven Clock Company, New Haven, Conn. Stem winding and setting watch.....	567,409	Sept. 8	1204	288	76	1517
Porter, Wilson E., assignor to New Haven Clock Company, New Haven, Conn. Watch-carrier.....	572,368	Dec. 1	501	118	77	1373
Porterfield, J. O., et al. (See Evans, Richard, assignor.)						
Porterfield, S. M., et al. (See Evans, Richard, assignor.)						
Porzolt, Eugene, Buda-Pesth, Austria-Hungary. Apparatus for setting type and signs by means of photography.....	568,988	Oct. 6	477	108	77	91
Positive Surface Cattle Guard Company. (See McNaughton and Smith, assignors.)						
Posner, Abraham, New York, N. Y. Stay for ankle portion of shoes.....	555,328	Feb. 25	2721	637	74	1061
Poss, Frank R., et al. (See Grigware, Edward N., assignor.)						
Poss, John R., et al. (See Grigware, Edward N., assignor.)						
Post, Adelbert E., assignor to G. E. Plumb, Cleveland, Ohio. Harness-saddletree.....	571,393	Nov. 17	1714	408	77	1001
Post, Carroll J., et al. (See Shephard, John H., assignor.)						
Post, Edward C., Monroe, Mich. Beer-tap.....	569,800	Oct. 20	1913	454	77	388
Post, Edward C., Monroe, Mich. Beer-tap.....	569,801	Oct. 20	1914	454	77	389
Post, Ferdinand and M. A., Baton Rouge, La. Sewing-machine attachment.....	561,178	June 2	193	47	75	1403
Post, Manfred A. (See Post, Ferdinand and M. A.)						
Postley, Mary F., New York, N. Y. Pineapple-knife.....	555,398	Feb. 25	2836	668	74	1083
Poston, Frank W., Dayton, Ohio. Vessel for measuring and transferring liquids.....	557,876	Apr. 7	620	147	75	117
Poteet, Robert W., and E. Fitzgerald, Kansas City, Mo. Car-coupling.....	562,024	June 16	1707	415	75	1737
Potteiger, Henry W., and W. A. Kohman, Reading, Pa. Photographic-display cabinet.....	553,073	Jan. 14	1070	261	74	214
Potter, Albertus D., et al. (See Dennis, Henry P., assignor.)						
Potter, C. O. (See Pember, Elba, assignor.)						
Potter, Charles A., assignor to American Ship Windlass Company, Providence, R. I. Capstan.....	555,121	Feb. 25	2356	560	74	993
Potter, Edgar W., Rochester, N. Y. Finger-guard.....	569,936	Oct. 20	2144	508	77	432
Potter, Frederick D., Linden, N. J. Steam and water separator.....	558,984	Apr. 28	2580	627	75	535
Potter, Georgianna E. (See Edwards and Potter.)						
Potter, Gideon. (See Vail and Potter.)						
Potter, Henry W., Titusville, Pa. Rotary pump.....	569,350	Oct. 13	1099	261	77	227
Potter, Henry W., Wellington, New Zealand, assignor of one-half to S. Frankel, Sydney, New South Wales. Appliance for branding sheep or other animals.....	569,515	Oct. 13	1373	3-2	77	275
Potter, Hubbard C., New York, N. Y. Circular diamond saw and saw-tooth.....	570,564	Nov. 3	246	62	77	683
Potter, James C., Pawtucket, R. I. Mechanism for grinding flats in carding-engines.....	559,601	May 5	427	101 102	75	765
Potter, John A., Cleveland, Ohio. Apparatus for casting ingots.....	565,296	Aug. 4	641	153	76	734
Potter, John A., Pittsburg, Pa. Apparatus for manufacturing hollow metal articles.....	567,410	Sept. 8	1206	289	76	1517
Potter, Joseph H., Batavia, N. Y. Spraying device.....	559,042	Apr. 28	2685	654	75	555
Potter, William B. (See Hewlett and Potter.)						
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Controller for electric motors.....	554,307	Feb. 11	914	211	74	690
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Safety appliance for electric brakes.....	555,585	Mar. 3	170	40	74	1161
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Regulating induction-motors.....	558,104	Apr. 14	1069	262	75	219

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Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Handle for circuit-breakers	558,518	Apr. 21	1782	433	75	370
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Running compound-wound generators in multiple	559,907	May 12	1035	229	75	890
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Circuit-breaker	560,427	May 19	1993	455	75	1118
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Electric brake	560,428	May 19	1994	455 456	75	1118
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Electric brake	560,751	May 26	2591	597	75	1244
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Extinguishing electric arcs	568,459	Sept. 29	3021	725	76	1901
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Rail-support	571,454	Nov. 17	1811	433	77	1019
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Rail-support	571,455	Nov. 17	1812	433	77	1019
Potter, William B., and F. E. Case, Schenectady, N. Y., assignors to General Electric Company, of New York. Tandem-parallel controller for induction-motors	568,458	Sept. 29	3018	725	76	1901
Potterton, Albert B. (See Potterton, Thomas, assignor.)						
Potterton, Thomas, assignor to A. B. Potterton, London, England. Safety-valve for boilers	569,670	Oct. 20	1664	393	77	345
Potthoff, Louis. (See Alexander, Hans, assignor.)						
Pottier & Styms Company. (See Johnston, John S., assignor.)						
Pottin, Henry, Paris, France. Cash-register	573,699	Dec. 22	2905	686 687 688	77	1883
Potts, Frank E. (See Reams, Andrew J., assignor.)						
Potts, George A., et al. (See Parks, Dewey R., assignor.)						
Potts, Joseph R., and H. M. Bare, Mechanicsburg, Pa. Fence-post	555,617	Mar. 3	221	52	74	1171
Potts, Richard B., Edmond, Okla. Ter. Platoon gun-battery	573,353	Dec. 15	2344	537	77	1740
Poucher, Isaac B., et al. (See Lockwood and Patterson, assignors.)						
Poucher, William A., et al. (See Lockwood and Patterson, assignors.)						
Pouk, John B., assignor of one-half to T. Linsley, Spring Valley, Ill. Pick-handle	561,726	June 9	1196	284	75	1621
Poulson, Charles G., Jr., deceased, Linwood, Pa.; C. G. Poulson, Sr., administrator. Sorting-machine	557,877	Apr. 7	621	148	75	117
Poulson, Joseph, Philadelphia, assignor to C. S. Onderdonk, Wyncote, Pa. Air-valve	553,041	Jan. 14	1002	245	74	201
Powe, William, Vancouver, Canada. Washing-machine	562,240	June 16	2070	502	75	1804
Powell, Albert M., Worcester, Mass. Feed stop mechanism for planers	562,481	June 23	2476	601	75	1896
Powell, Albert M., Worcester, Mass. Compound ratchet feed-gearing for metal-planers	562,482	June 23	2477	601	75	1896
Powell, Albert M., Worcester, Mass. Feed-operator for metal-planing machines	570,953	Nov. 10	968	226	77	847
Powell, Albert M., Worcester, Mass. Automatic feed-stop for metal-planing machines	570,954	Nov. 10	971	226	77	848
Powell, Charles E., Bryn Mawr, Pa. Trolley	562,972	June 30	3379	813	75	2089
Powell, Edward. (See Powell, John G., assignor.)						
Powell, Edward L., Atlantic Highlands, N. J. Valve for flush-tanks	564,338	July 21	1937	457	76	388
Powell, Henry M., Florence, Ga. Vehicle-axle	554,536	Feb. 11	1299	306	74	762
Powell, James A., Ashland, Ky. Combined platform and gang-plank	571,497	Nov. 17	1897	452	77	1033
Powell, John G., assignor of one-half to E. Powell, Philadelphia, Pa. Knitting-machine	570,335	Oct. 27	2894	687 688	77	585
Powell, John R., Plymouth, Pa. Cuspider	568,070	Sept. 22	2349	567	76	1758
Powell, William H., Hartford, Conn. Automatic circuit-breaker	571,097	Nov. 10	1320	285	77	894
Powell, William H., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Electric switch	569,300	Oct. 13	1010	242	77	208
Powell, William H., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Electric switch	569,301	Oct. 13	1014	242	77	209
Powell, William H., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Electric switch	569,302	Oct. 13	1017	243	77	210
Power, James E., Brooklyn, N. Y. Bicycle-tender	566,535	Aug. 25	2882	701	76	1212
Power, Nicholas, New York, N. Y. Bilge-water-discharging apparatus	558,912	Apr. 21	2447	597	75	494
Power, Pomeroy W. (See Kelly, Cheaney, and Power.)						
Power, Pomeroy W., assignor to Stanley Electric Manufacturing Company, Pittsfield, Mass. Pillow-block for dynamo-electric machines and means for supporting same	559,538	May 5	325	78	75	745
Power, Pomeroy W., assignor to Stanley Electric Manufacturing Company, Pittsfield, Mass. Journal-bearing and pillow-block	567,165	Sept. 8	770	180	76	1440
Power Transmitter Company. (See Regan, Daniel S., assignor.)						
Powers, Albert, and V. Furstenfeld, St. Louis, Mo. Wagon-brake	560,069	May 12	1333	299	75	947
Powers, Albert D., et al. (See Daniel, John W., assignor.)						
Powers, Channcey M., and W. E. Surface, Decatur, Ill. Combination cleaning-rod for guns	562,416	June 23	2362	577	75	1875
Powers, Edward, assignor of one-half to S. J. and J. H. Smith, Arkansas City, Kans. Far-rowing-pen	569,516	Oct. 13	1375	322 323	77	275
Powers, Edwin H., Michigan City, Ind., assignor to Chicago Cane Seating Company, Michigan City, Ind., and Chicago, Ill. Cane-weaving machine	568,040	Sept. 22	2287	554 555	76	1748
Powers, Fred W. (See Powers, William P. and F. W.)						
Powers, Frederick L. (See Meek and Powers.)						
Powers, James, Brooklyn, N. Y., assignor to National Ferrottype Machine Company, New York, N. Y. Coin controlled photographic apparatus	565,297	Aug. 4	642	153 154	76	734
Powers, Nathaniel J. T., Whitesborough, Tex. Pot hanger or holder	556,770	Mar. 24	2315	544	74	1612
Powers, Samuel L. (See Kinsley and Powers.)						
Powers, W. S. (See Reynolds, Adrian J., assignor.)						
Powers, Walter W., Rochester, N. Y. Office-directory	573,354	Dec. 15	2247	537	77	1741
Powers, William H., Jr., assignor to G. Peirce, Worcester, Mass. Hydraulic air-pump	556,937	Mar. 24	2591	609 610	74	1663
Powers, William H., Jr., assignor to J. A. Dean, Worcester, Mass. Valve-operating mechanism for elevators	560,230	May 19	1634	372	75	1055
Powers, William P., Chicago, Ill. Temperature-controlling apparatus	554,398	Feb. 11	1059	247 248	74	717
Powers, William P., Chicago, Ill. Gas-controlling valve	555,399	Feb. 25	2837	668 669	74	1083
Powers, William P., Chicago, Ill. Heating and ventilating	558,610	Apr. 21	1931	469	75	397
Powers, William P. and F. W., Chicago, Ill. Temperature-regulating apparatus	555,660	Mar. 3	307	72	74	1185
Powley, Joseph L., Kingston, N. Y. Inkstand	567,792	Sept. 15	1834	440	76	1651
Pownall, Joseph H., Harrisburg, Pa. Carpet-cleaner	557,878	Apr. 7	623	148	75	117
Poyser, John, Mansfield, England. Batten for looms	566,222	Aug. 18	2301	563	76	1087
Poyser, John, Mansfield, England. Loom	568,275	Sept. 22	2710	649 650	76	1828

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Poyser, John, Mansfield, England. Weft-stopping mechanism for looms	570,815	Nov. 3	716	{ 162 163 }	77	771
Poyser, William J. (See Miller, Charles B., assignor.)						
Practical Closure Company. (See Lambert and Hoffman, assignors.)						
Practical Novelty Manufacturing Company. (See Zestermann, Adolph, assignor.)						
Praeger, Ewald, San Antonio, Tex. Yardstick-calculator	566,867	Sept. 1	220	51	76	1324
Prager, Conrad, Etna, Pa. Stamp-holder and match-safe	561,434	June 2	670	164	75	1497
Prahl, Charles, assignor of three-fourths to S. Stern and Levy, Dreyfus & Co., New York, N. Y. Repeating clock	560,926	May 26	2923	{ 670 671 }	75	1307
Prall, William E., Washington, D. C. Back-support for bicycle-seats	553,722	Jan. 28	2211	524	74	456
Prall, William E., Jr., New York, N. Y. Rotary engine	562,152	June 16	1927	{ 468 469 }	75	1777
Prall, William E., Jr., New York, N. Y. Clutching mechanism for rotary engines	562,153	June 16	1931	469	75	1777
Prall, William E., Jr., New York, N. Y. Reversing mechanism for rotary engines	572,716	Dec. 8	1113	{ 269 270 }	77	1510
Pramer, Philip M., Clear Lake, Iowa. Device for forming heel-calks on horseshoes	572,125	Dec. 1	56	14	77	1288
Prange, Robert L., assignor of one-half to W. Grevel, New York, N. Y. Ice-cream mold	571,171	Nov. 10	1347	314	77	917
Pranke, Stephen E., Buchanan, Va. Combination tap and die	574,216	Dec. 29	3388	925	77	2075
Prator, Albert T. (See Prator, John M. and A. T.)						
Prator, John M. and A. T., Magnolia, Ark. Folding step for vehicles	560,752	May 26	2593	597	75	1244
Pratt, Arthur E., Andover, S. D. Feeder for threshing-machines	570,336	Oct. 27	2897	688	77	585
Pratt, Arthur L., Kalamazoo, Mich. Coin-detector for coin-controlled apparatus	560,927	May 26	2926	671	75	1307
Pratt, Arthur L., Kalamazoo, Mich. Electric switchboard and circuit-maker	562,658	June 23	2781	675	75	1953
Pratt, Byron J. (See Ellsworth, William E., assignor.)						
Pratt, C. Manville. (See Roberts, Aden H., assignor.)						
Pratt & Cady Company. (See Jennings, William C., assignor.)						
Pratt & Cady Company. (See Oehring, August J., assignor.)						
Pratt, Charles A., Clinton, Mass. Tire for vehicle-wheels	569,566	Oct. 13	1473	346	77	294
Pratt, Charles H., Butte, Mont., assignor to Pratt Fastener Company, of New Hampshire. Fastener for shoes	559,463	May 5	199	44	75	720
Pratt, Charles M., Towanda, Pa. Car-fender	555,400	Feb. 25	2839	669	74	1083
Pratt, Charles M., Towanda, Pa. Moistener for gummed surfaces	562,659	June 23	2782	675	75	1953
Pratt, Charles M., Towanda, Pa. Safety-guard for street-cars	564,027	July 14	1386	322	76	273
Pratt, Charles M., Towanda, Pa. Funnel	568,411	Sept. 29	2940	706	76	1886
Pratt, Charles R., New York, N. Y., assignor of one-half to Whittier Machine Company, Boston, Mass. Elevator	573,531	Dec. 22	2585	614	77	1821
Pratt, Edward H., Jersey City, N. J. Game apparatus	568,792	Oct. 6	138	33	77	28
Pratt Fastener Company. (See Pratt, Charles H., assignor.)						
Pratt, Francis B., Canton, Miss. Inkstand	563,615	July 7	641	149	76	121
Pratt, Frank G., Revere, Mass., assignor to Union Switch and Signal Company, Swissvale, Pa. Electric signaling	552,776	Jan. 7	506	{ 124 125 }	74	95
Pratt, Frederick A., Pawtucket, R. I. Bowling-alley	572,073	Nov. 24	2946	693	77	1249
Pratt, George F., Canton, assignor of one-half to S. E. Brown, Collinsville, Conn. Wire-stretcher	569,229	Oct. 13	885	210	77	184
Pratt, George W., Peabody, assignor of one-half to S. A. Walton, Salem, Mass. Game apparatus	571,843	Nov. 24	2508	594	77	1166
Pratt, Harry P., and H. A. Allen, Chicago, Ill. Telephone-instrument	555,051	Feb. 18	2229	{ 532 533 }	74	951
Pratt, Henry C., Canandaigua, N. Y. Tension device for wire fences	571,930	Nov. 24	2672	633	77	1197
Pratt, Herbert L., Lewiston, Me., and C. T. Upton, Lowell, Mass. Machine for winding yarn from chains onto filling-bobbins	573,288	Dec. 15	2121	{ 510 511 }	77	1718
Pratt, Jesse, Monrovia, assignor of one-half to G. L. Clark, Los Angeles, Cal. Vaporizer and mixer for gasoline engines	567,253	Sept. 8	908	217	76	1463
Pratt, John C., Hartford, Conn., assignor of one-half to A. K. Pettingill, Boston, Mass. Chainless change-gear bicycle	573,102	Dec. 15	1785	{ 429 430 }	77	1657
Pratt & Long Chuck Company. (See Long, George S., assignor.)						
Pratt, Nat W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Sectional steam-boiler	557,700	Apr. 7	311	74	75	59
Pratt, Nat W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Riveting-machine	561,606	June 9	975	233	75	1580
Pratt, Nat W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Steam-generator	565,029	Aug. 4	120	29	76	640
Pratt, Nat W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Hand-hole plate	565,504	Aug. 11	1042	250	76	829
Pratt, Nat W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Steam-generator	570,229	Oct. 27	2658	{ 630 631 632 633 }	77	542
Pratt, Nat W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Means for closing tubes of steam-generators	571,016	Nov. 10	1075	251	77	866
Pratt, Prescott H., East Bridgewater, Mass. Belt-shifter	555,735	Mar. 3	426	99	74	1206
Pratt, Timothy D., assignor of one-half to W. E. Burrows, Providence, R. I. Curtain-rod	569,010	Oct. 6	509	115	77	97
Pratt, Walter L., and F. E. Ripley; said Ripley assignor to R. F. Steele, Adams, N. Y. Automatic safety circuit-closer	570,955	Nov. 10	972	227	77	848
Pratt & Whitney Company. (See Sweet, John E., assignor.)						
Pratt & Whitney Company. (See Thompson, Frank E., assignor.)						
Pratt & Whitney Company. (See Thompson and Bingham, assignors.)						
Pratt & Whitney Company et al. (See Kinney, Alfred W., assignor.)						
Pratt, William T. C., Bristol, England. Self-acting caution and danger signal for railways	567,865	Sept. 15	1966	{ 471 472 }	76	1677
Prax, Raymond, Montauban, France. Siphon-bottle	565,922	Aug. 18	1788	435	76	988
Preble, George L., Lynn, and E. P. Worth, Boston, Mass. Inner sole for boots or shoes	553,422	Jan. 21	1686	402	74	343
Preble, Josiah H., Lynn, Mass. Shoe	564,714	July 28	2572	609	76	523
Preccourt, Edward J., assignor of one-fourth to J. Chabot, Marlborough, Mass. Hose and pipe coupling	557,019	Mar. 24	2750	652	74	1693
Prendergast, Jeffrey J., St. Louis, Mo. Excavator	563,941	July 14	1238	289	76	245
Prentice, Albert F., et al. (See Prentice, Benjamin W., assignor.)						
Prentice, Benjamin W., assignor to V. F. and A. F. Prentice, Worcester, Mass. Sectional expansion-tap	572,445	Dec. 1	633	150	77	1398
Prentice, George G., New York, N. Y. Multiple screw-machine	574,162	Dec. 29	3745	{ 894 895 }	77	2051
Prentice, George G., New York, N. Y. Multiple screw-machine	574,163	Dec. 29	3751	{ 895 896 }	77	2052
Prentice, John F., Brooklyn, N. Y. Toy	555,181	Feb. 25	2453	581	74	1012

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Prentice, Vernon F., <i>et al.</i> (See Prentice, Benjamin W., assignor.)						
Prentice, Vernon F., Worcester, Mass. Engine-lathe	553,594	Jan. 28	1990	472	74	416
Prentiss Clock Improvement Company. (See Prentiss, Henry S., assignor.)						
Prentiss, Henry S. (See Bagley, Charles H., assignor.)						
Prentiss, Henry S., Elizabeth, N. J., assignor to Prentiss Clock Improvement Company, of New Jersey. Self-winding clock	572,274	Dec. 1	322	77	77	1341
Prepayment Appliance Company. (See Milsted, William N., assignor.)						
Presby, Edwin O., New York, N. Y. Combined button and drawers-support	561,435	June 2	671	164	75	1497
Prescott, George L., Berlin, N. H. Scale-poise	555,881	Mar. 3	669	160	74	1253
Prescott, George W., Eau Claire, Wis. Steam-offset for sawmill-carriages	569,671	Oct. 20	1665	394	77	345
Prescott, Joseph D., Boston, Mass. Elastic metallic tire	560,173	May 12	1521	344	75	982
Prescott, Samuel J. (See Garnier and Prescott.)						
Prescott, William G., Findlay, Ohio. Valve	559,908	May 12	1036	230	75	890
Presnell, Frank G., Chillicothe, Ohio. Envelop and moistening implement	561,239	June 2	280	70	75	1422
Press Company <i>et al.</i> (See Brooks, Edward, Jr., assignor.)						
Prest, Charles A., Northborough, Mass. Nutmeg-grater	557,508	Mar. 31	3620	868	74	1878
Prest, John E., Cohoes, N. Y. Apparatus for controlling the grinding of flats of carding-engines	555,329	Feb. 25	2721	638	74	1062
Preston, George A., Dundee Lake, assignor of one-third to C. M. King, Paterson, N. J. Bottle	558,105	Apr. 14	1070	263	75	219
Preston, Guy H. (See Fuller, Lawson M., assignor.)						
Preston, Guy H., assignor of one-half to L. M. Fuller, U. S. Army. Field-ration mess-kit	555,882	Mar. 3	670	160	74	1254
Preston, Louis D. (See Wright and Preston.)						
Preston, Reuben T., London, and J. Holden, Wanstead, England. Stay for boilers	562,025	June 16	1710	{ 415 416 }	{ 75 75 }	{ 1738 1738 }
Preston, Robert E., <i>et al.</i> (See Whitehead, Cabell, assignor.)						
Preston, William A., Detroit, Mich. Box-machine	560,928	May 26	2927	{ 671 672 }	{ 75 75 }	{ 1308 1308 }
Preston, Willard B., assignor of one-half to F. A. Foster, Cincinnati, Ohio. Autographic register	566,620	Aug. 25	2998	732	76	1235
Preuss, Rudolf J. (See Mueller and Preuss.)						
Preusser, Gustav A., Hamburg, Germany. Brace	564,222	July 21	1740	407	76	353
Preussner, Richard F., assignor of one-sixth to H. Yost, Jr., and F. S. Gibson, Washington, D. C. Car-fender	562,320	June 16	2207	{ 536 537 }	{ 75 75 }	{ 1830 1830 }
Prew, David, Providence, R. I. Brake-shoe	569,978	Oct. 20	2210	525	77	443
Pribyl, Francis J., Hazleton, Pa. Sroke	556,938	Mar. 24	2593	610	74	1663
Pribyl, Francis J., Hazleton, Pa. Sad-iron	557,227	Mar. 31	3112	746	74	1782
Price, Abel F., U. S. Navy. Bicycle-gearing	570,052	Oct. 27	2333	553	77	480
Price, Abraham E., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Band-cutter and feeder	552,620	Jan. 7	200	56	74	40
Price, Abraham E., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Traction-wheel	555,330	Feb. 25	2723	638	74	1062
Price, Abraham E., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Deflector-pipe for pneumatic straw-stackers	557,020	Mar. 24	2752	652	74	1694
Price, Benjamin, Morriston, assignor of two-thirds to R. Laybourne and C. W. E. Marsh, Newport, England. Apparatus for manufacturing metal tubes	570,816	Nov. 3	717	{ 163 164 165 }	{ 77 77 77 }	{ 771 771 771 }
Price, Charles B., Pittsburg, Pa. Frogless switch	553,934	Feb. 4	246	53, 54	74	550
Price, Charles S., Westmont, Pa. Pneumatic converter	554,457	Feb. 11	1175	{ 274 275 }	{ 74 74 }	{ 739 739 }
Price, Edgar F., Newark, N. J. Electric furnace	572,312	Dec. 1	403	96	77	1355
Price, Edwin F., Washington Court-House, Ohio. Combination-lock	563,061	June 30	3516	844	75	2115
Price, Frank A., Newark, N. J. Shading-pen	558,311	Apr. 14	1415	348	75	285
Price, George W., assignor to Ocean Power Propeller Company, Providence, R. I. Apparatus for propelling by motion of vessels	567,999	Sept. 22	2211	{ 533 534 }	{ 76 76 }	{ 1734 1734 }
Price, George W., assignor to Ocean Power Propeller Company, Providence, R. I. Motor for vessels	568,117	Sept. 22	2444	687	76	1777
Price, Harry, <i>et al.</i> (See Seymour, Herbert P., assignor.)						
Price, Isaac W., Rosseau, Ohio. Vehicle-brake	571,240	Nov. 10	1463	343	77	938
Price, John. (See Hann and Bromley, assignors.)						
Price, John, Trenton, N. J. Gas-consumer and fuel-economizer	559,602	May 5	429	102	75	766
Price, John, assignor of four-fifths to D. E. Radcliffe, A. H. Smith, T. Hann, and W. Bromley, London, England. Machine for manufacturing multiple-throw cams	564,800	July 28	2730	{ 649 650 }	{ 76 76 }	{ 550 550 }
Price, John B. (See Blake and Price.)						
Price, John R. (See Cranford, William J., assignor.)						
Price, Mark C. (See Grabill, John D., assignor.)						
Price, Thomas. (See Robertson, James C., assignor.)						
Price, Thomas, assignor to himself and A. W. Kerr, Itasca, Tex. Thill-support	554,953	Feb. 18	2029	480	74	917
Price, Twigg, Upper Sandusky, assignor of one-half to R. A. Bever, Nevada, Ohio. Machine for trimming wall-paper	556,369	Mar. 17	1619	{ 378 379 }	{ 74 74 }	{ 1464 1464 }
Price, William G., Frackville, Pa. Folding kitchen toilet-stand	559,744	May 5	653	158	75	807
Price, William G., assignor of one-half to M. K. Bowen, Chicago, Ill. Street-car brake	572,823	Dec. 8	1295	311	77	1543
Price, William G., assignor of one-half to M. K. Bowen, Chicago, Ill. Street-car brake	572,824	Dec. 8	1300	312	77	1545
Price, William G., assignor of one-half to M. K. Bowen, Chicago, Ill. Street-car brake	572,825	Dec. 8	1302	312	77	1545
Price, William H. (See Fee, John W., assignor.)						
Price, William M., Philadelphia, Pa. Automatic measuring and registering faucet	571,685	Nov. 17	2207	532	77	1090
Prideaux, Lewis, Philadelphia, Pa. Shaft or tongue coupling	569,426	Oct. 13	1220	286	77	247
Pridham, Marshall, Philadelphia, Pa., assignor to Electric Rectifying and Refining Company, Camden, N. J. Purifying and decolorizing saccharine or other liquids	573,289	Dec. 15	2126	511	77	1719
Pridham, Marshall, Philadelphia, Pa., assignor to Electric Rectifying and Refining Company, Philadelphia, Pa., and Camden, N. J. Purifying and decolorizing saccharine or other liquids	573,290	Dec. 15	2130	{ 511 512 }	{ 77 77 }	{ 1720 1720 }
Pridham, Marshall, Philadelphia, Pa., assignor to Electric Rectifying and Refining Company, Camden, N. J. Apparatus for purifying and decolorizing saccharine or other liquids	573,355	Dec. 15	2249	538	77	1741
Pridham, Marshall, Philadelphia, Pa., assignor to Electric Rectifying and Refining Company, Camden, N. J. Apparatus for decolorizing sugar	574,000	Dec. 29	3452	826	77	1998
Pridham, Marshall, Philadelphia, Pa., assignor to Electric Rectifying and Refining Company, Camden, N. J. Process of and apparatus for purifying, rectifying, and deodorizing alcoholic or other liquids	574,111	Dec. 29	3649	871	77	2034
Pridham, Marshall, Philadelphia, Pa., assignor to Electric Rectifying and Refining Company, Camden, N. J. Apparatus for generating ozone	574,341	Dec. 29	4103	{ 974 975 }	{ 77 77 }	{ 2116 2116 }
Pridham, Samuel S., assignor to G. Heinkel, Newark, N. J. Smoke-condenser	554,348	Feb. 11	982	228	74	701
Pridmore, Henry E., Chicago, Ill. Self-binding harvester	561,517	June 2	807	{ 196 197 }	{ 75 75 }	{ 1523 1523 }

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Pridmore, Henry E., Chicago, Ill., assignor to McCormick Harvesting Machine Company. Wheel.....	558,519	Apr. 21	1783	433	75	371
Pridmore, John W., Chicago, Ill., assignor to McCormick Harvesting Machine Company. Adjusting device for butting-boards.....	554,726	Feb. 18	1630	385	74	842
Pridmore, John W., Chicago, Ill., assignor to McCormick Harvesting Machine Company. Connecting-rod.....	554,727	Feb. 18	1631	385	74	842
Priebs, Willibald. (See Fournier, Friedrich M., assignor.)						
Pries, Herman, and J. W. Meyer, Michigan City, Ind. Grain-door.....	570,269	Oct. 27	2739	{ 651 652	77	557
Priest, Edward D., Schenectady, N. Y., assignor to General Electric Company, of New York. Controller for electric motors.....	556,862	Mar. 24	2466	{ 580 581	74	1641
Priest, Edward D., Schenectady, N. Y., assignor to General Electric Company, of New York. Trolley.....	567,411	Sept. 8	1209	289	76	1517
Priest, Henry M., Steubenville, Ohio. Sash-fastener.....	563,616	July 7	642	149	76	121
Priest, Joseph K., Nashua, N. H. Animal-shears.....	571,241	Nov. 10	1467	343	77	939
Priest, Joseph K., Nashua, N. H. Hair-clipper.....	572,027	Nov. 24	2828	667	77	1227
Priestly, Frank C. (See Balsley and Priestly.)						
Priestman Oil Engine American Syndicate. (See Priestman, William D. and S., assignors.)						
Priestman, Samuel. (See Priestman, William D. and S.)						
Priestman, William D. and S., assignors to Priestman Oil Engine American Syndicate, Limited, Hull, England. Hydrocarbon-engine.....	552,718	Jan. 7	381	{ 100 101	74	74
Primm, Jean B. (See Reece and Primm.)						
Prince, John. (See Williams and Prince.)						
Prince, Joseph, Ishpeming, Mich. Purée-strainer.....	565,089	Aug. 4	238	57, 58	76	660
Prindle, Henry U., and E. T. Lampton, Woodland, Cal. Bicycle-handle and bell-ringer.....	571,394	Nov. 17	1715	408	77	1001
Prindle, William E., Aurora, Ill. Triple valve.....	558,838	Apr. 21	2316	564	75	468
Prindle, William E., Aurora, Ill. Bridge-gate.....	562,660	June 23	2783	{ 675 676	75	1953
Pringle, Eugene, Gloversville, N. Y., assignor to M. D. Shipman and C. E. Bradt, De Kalb, Ill. Separable button.....	573,532	Dec. 22	2587	614	77	1822
Pringle, Eugene, Gloversville, N. Y., assignor to M. D. Shipman and C. E. Bradt, De Kalb, Ill. Separable button.....	574,265	Dec. 29	3975	944	77	2092
Pringle, Eugene, Gloversville, N. Y., assignor to M. D. Shipman and C. E. Bradt, De Kalb, Ill. Separable button.....	574,266	Dec. 29	3977	945	77	2092
Pringle, Eugene, Gloversville, N. Y., assignor to M. D. Shipman and C. E. Bradt, De Kalb, Ill. Separable button.....	574,267	Dec. 29	3979	945	77	2092
Pringle, Eugene, Gloversville, N. Y., assignor to M. D. Shipman, C. E. and S. E. Bradt, De Kalb, Ill. Separable button.....	573,533	Dec. 22	2589	614	77	1822
Pringle, Mark W., Cloud Chief, Okla. Ter. Device for cutting corn, &c.....	569,725	Oct. 20	1785	424	77	366
Pringle, Robert. (See Morton and Pringle.)						
Printing Telegraph News Company. (See Merritt and Joy, assignors.)						
Prinz, Faustin, Milwaukee, Wis. Dust-collector.....	560,107	May 12	1406	316	75	962
Prinz, Faustin, Milwaukee, Wis. Dust-collector.....	560,108	May 12	1410	{ 316 317	75	963
Prinz, Faustin, assignor to A. L. Kern, Milwaukee, Wis. Machine for separating peas and round seeds from broken barley, &c.....	563,238	June 30	3838	920	75	2175
Prinzler, Karl, Gotha, Germany. Production of molding and core sand for casting.....	553,688	Jan. 28	2147	.....	74	444
Prior, Fred A., Milford, Mich. Feeding attachment for bean-threshers.....	562,096	June 16	1843	448	75	1760
Pritchard, Albert R., Rochester, N. Y. Tea-strainer.....	555,736	Mar. 3	428	99	74	1206
Pritchard, Albert R., Rochester, N. Y. Chuck for hollow ware.....	567,004	Sept. 1	480	111	76	1372
Pritchard, Albert R., Rochester, N. Y. Attachment for india-rubber overshoes.....	567,254	Sept. 8	910	218	76	1464
Pritchard, Albert R., and J. M. Sellmayer, Rochester, N. Y. Abrading-machine.....	560,862	May 26	2804	{ 643 644	75	1285
Pritchard, Albert R., and J. M. Sellmayer, Rochester, N. Y. Abrading-machine.....	570,184	Oct. 27	2578	612	77	527
Pritchett, Percy H., Kanieri, New Zealand. Cycle or velocipede.....	564,099	July 14	1521	356	76	299
Pritschau, Arthur F., assignor of one-fourth to S. A. White, Pittsburg, Pa. Water-heater.....	566,409	Aug. 25	2645	{ 645 646	76	1168
Prizer, William. (See Casselberry, Samuel H., assignor.)						
Proball, Adam, Cleveland, Ohio. Lunch-basket.....	556,370	Mar. 17	1621	379	74	1465
Probstfield, Edmund H., Moorhead, Minn. Mechanism for distributing power.....	559,745	May 5	656	158	75	807
Proctor, Charles W., Lake Forest, Ill. Oil-can.....	558,207	Apr. 14	1235	301	75	250
Proctor, James M., Sturgeon, Mo. Gate or door hook.....	572,446	Dec. 1	634	150	77	1398
Proctor, Joseph E., assignor of five-eighths to S. H. Howe, Marlborough, Mass. Machine for attaching uppers to soles of boots or shoes.....	570,768	Nov. 3	641	147	77	755
Proctor, Josiah K., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Apparatus for ordering tobacco.....	553,723	Jan. 28	2213	{ 524 525	74	457
Proctor, Josiah K., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Apparatus for mechanically creating and maintaining humid atmosphere.....	568,491	Sept. 29	3069	{ 738 739 740	76	1910
Proctor, Lewis S., Sheffield, Ala. Railway-rail and chair or bed.....	569,388	Oct. 13	1160	276	77	237
Proeger, Julius, Greensburg, Pa. Apparatus for forming glass articles.....	566,469	Aug. 25	2783	677	76	1193
Program Clock Company. (See Reams, Andrew J., assignor.)						
Prokop, Frank J., Dolgeville, N. Y. Hair-pin.....	569,053	Oct. 6	585	133	77	112
Prosser, George, Middle Island, N. Y. Fish-catching device.....	562,851	June 30	3142	761	75	2039
Prosser, Thomas H., Boyeo, assignor of three-fifths to M. Young, Frankston, Victoria. Clothes-peg.....	556,555	Mar. 17	1958	457	74	1528
Prosser, Treat T., Lynn, Mass. Steam-engine.....	555,465	Feb. 25	2970	708	74	1108
Protsman, Hiram G. (See Rumbarger, Victor E., assignor.)						
Prouty, Chester, Du Bois, Pa. Saw.....	565,298	Aug. 4	647	154	76	735
Prouty, Chester, Du Bois, Pa. Saw.....	565,390	Aug. 4	795	189	76	764
Prouty, Enoch, assignor of one-half to O. S. Prouty, Chicago, Ill. Power-transmitter for road-wagons.....	570,501	Nov. 3	119	29	77	660
Prouty, Enoch, assignor to O. S. and E. Prouty, Chicago, Ill. Gasolene or vapor engine.....	570,500	Nov. 3	115	28, 29	77	659
Prouty, Enoch, assignor to O. S. and E. Prouty, Chicago, Ill. Muffler for engines.....	570,502	Nov. 3	121	30	77	661
Prouty, George W., Boston, Mass. Printing-press.....	566,223	Aug. 18	2302	563	76	1087
Prouty, George W., Boston, Mass. Printing-press.....	566,224	Aug. 18	2303	563	76	1088
Prouty, Olive S., et al. (See Prouty, Enoch, assignor.)						
Providence Knitting Machine Company. (See Burleigh, Joseph A., assignor.)						
Provoost, Charlotte A., Buffalo, N. Y. Bandage.....	571,172	Nov. 10	1348	314	77	917
Provost, Peter, Montreal, Canada. Hanger for harness for horses.....	560,753	May 26	2595	{ 597 598	75	1244
Pruckner, Edmund, Newark, N. J. Toy pistol.....	560,045	May 12	1282	288	75	938
Pruffrock, Harry, St. Louis, Mo. Bed. (Reissue).....	11,565	Aug. 25	3179	777	76	1267
Pruitt, Andrew L., Hico, assignor of one-half to J. Meriwether, Pearsall, Tex. Wire-stretcher and reel-carrier.....	570,817	Nov. 3	731	165	77	772

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Pruitt, Joseph W. (See Saladee, William H., assignor.)						
Prunty, John E., assignor to Courtland Machine Company of Baltimore City, Baltimore, Md. Apparatus for rapid heating and purification of water.	555,019	Feb. 18	2157	514	74	939
Prüsmann, Carl H., assignor to Schaeffer & Budenberg, Magdeburg, Germany. Reducing-valve.	558,839	Apr. 21	2318	564	75	469
Prutz, Carl. (See Pinckert and Prutz.)						
Pruyn, Francis L., Albany, N. Y. Electric heater.	566,795	Sept. 1	99	24	76	1299
Pryor, Clarence E., New York, N. Y. Tremolo attachment for stringed musical instruments.	561,436	June 2	672	165	75	1497
Pryor, David C., Oklahoma, Okla. Ter. Lantern.	564,762	July 28	2671	635	76	540
Pryor, James. (See Trim and Pryor, assignors.)						
Pryor, John A., Folsomdale, Ky. Wagon-brake.	565,365	Aug. 4	755	180	76	757
Pryor, Joseph F. (See Trim and Pryor.)						
Pryor, Robert W., and C. Schaetzle, Newark, N. J., assignors to W. W. Pryor Hardware Manufacturing Company, of New Jersey. Spring belt-punch.	574,164	Dec. 29	3756	896	77	2053
Psaroudaki, Spiridion. (See Blondel and Psaroudaki.)						
Publow, James A., Brockville, Canada. Spring attachment for spring-tooth cultivators.	565,505	Aug. 11	1042	250	76	829
Puciata, Richard L., Warsaw, Russia. Furnace.	567,611	Sept. 15	1535	³⁶⁹ 370 371	76	1593
Puddefoot, Harry, South Framingham, Mass. Boot or shoe grip.	557,879	Apr. 7	625	148	75	118
Puffer, Frederic E., Newton, Mass., assignor to Warren-Scharf Asphalt Paving Company, New York, N. Y. Paving-roller.	572,447	Dec. 1	635	150	77	1399
Pugh, William M., assignor of one-half to E. Pfeiffer, Indianapolis, Ind. Combined rolling-pin and dough-cutter.	565,635	Aug. 11	1258	303	76	869
Pughe, Lewis, et al. (See Sloan, Alexander, assignor.)						
Pulbrook, Anthony, London, England. Inflatable wheel-tire.	553,869	Feb. 4	97	21	74	523
Pulbrook, Anthony, London, England. Inflatable tire.	564,763	July 28	2673	635	76	540
Pulbrook, Anthony, London, England. Inflatable wheel-tire.	566,796	Sept. 1	100	25	76	1299
Pullan, Richard B., Cincinnati, Ohio. Car-fender.	563,062	June 30	3517	845	75	2115
Pullen, Leon W., Camden, N. J. Telephone-transmitter.	573,356	Dec. 15	2254	538	77	1742
Pulley, Jonathan, Laurens, Iowa. Hame-fastener.	558,520	Apr. 21	1785	434	75	371
Pullins, David C., and C. S. Wyatt, Pullins, Ky. Match-safe.	568,276	Sept. 22	2711	650	76	1828
Pullman, Herbert S., Meriden, Conn. Bicycle-bell.	553,568	Jan. 28	1945	459	74	408
Pullman, John. (See Lane and Pullman.)						
Pullman, Samuel H., Lake Maitland, assignor to J. H. Jones, Orlando, Fla. Cycle-seat.	563,063	June 30	3520	845	75	2116
Pullman's Palace Car Company. (See Sessions, Henry H., assignor.)						
Pulsifer, Walter H., et al. (See Murray, Frank C., assignor.)						
Pulver, Andrew J., assignor of one-third to F. J. Herman, Norwalk, Ohio. Hot-water generator.	552,698	Jan. 7	348	91, 92	74	68
Punchard, John H. (See Darby, Walter and I., assignors.)						
Punchard, John H. (See Darby and Punchard.)						
Punctureless Tire Company. (See Mills, Ratcliff, and Barr, assignors.)						
Punteney, Archibald, Kansas City, Mo. Baling-press.	555,970	Mar. 10	838	200	74	1307
Punteney, Archibald, Kansas City, Mo. Sweep-rake.	567,771	Sept. 15	1800	432	76	1644
Purdum, Samuel E., Macomb, Ill. Adjustable trace-loop.	574,165	Dec. 29	3757	897	77	2054
Purdy, Fred, Chicago, Ill. Machine for winding metal strips.	553,935	Feb. 4	248	54	74	551
Purdy, Fred, Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Manufacture of mainsprings for watches.	557,021	Mar. 24	2753	653	74	1694
Purdy, Fred B., Belchertown, Mass. Clamp for billiard-cue tips.	562,973	June 30	3380	813	75	2090
Purdy, Henry E., Michigan City, Ind. Router.	569,054	Oct. 6	586	134	77	112
Purdy, John W. (See Courtright and Purdy.)						
Purdy, Walter, Somerset, Pa. Device for sharpening edged tools.	570,337	Oct. 27	2899	688	77	586
Purifoy, William R. (See Key, Brevard, and Purifoy.)						
Purinton, Judson K., Des Moines, Iowa. Cooking utensil.	573,291	Dec. 15	2135	512	77	1720
Purman, James J. (See Smith, William E., assignor.)						
Purnell, Richard H., Rosedale, Miss. Plow.	572,028	Nov. 24	2830	667	77	1227
Pursell, John, New Haven, Conn. Device for suspending curtains.	572,616	Dec. 8	932	226	77	1475
Purves, Austin M., assignor to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Device for drying air.	556,692	Mar. 17	2164	505	74	1567
Purves, Austin M., assignor to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Device for drying air.	558,840	Apr. 21	2318	564	75	469
Purves, William. (See De Grace, William L., assignor.)						
Pusey, Joshua, Lima, Pa. Package-tie.	573,700	Dec. 22	2912	688	77	1884
Pusey, Thomas, Stockton, Cal., T. H. Latimer and T. H. Savery, Wilmington, Del. Automatic tightener for drier-felts of paper-making machines.	569,031	Oct. 6	543	125	77	103
Pusey, Thomas M., Kennet, Pa. Voltage-regulator for dynamos.	574,217	Dec. 29	3890	926	77	2076
Putman, John E., Chicago, Ill. Means for operating elevators.	564,313	July 21	1893	447	76	380
Putnam, Albert M., Woburn, Mass., assignor to Putnam Pump Company, of Maine. Water-elevating apparatus.	555,122	Feb. 25	2358	561	74	993
Putnam, Alfred E., Milan, Mich. Bicycle-holder.	572,770	Dec. 8	1207	292	77	1526
Putnam, Charles S. (See Naef, Louis R., assignor.)						
Putnam, John, Philadelphia, Pa. Pitcher or other vessel.	569,351	Oct. 13	1101	261	77	227
Putnam, John P., Boston, Mass. Washbasin, &c.	563,064	June 30	3522	⁸⁴⁵ 846	75	2116
Putnam, Joseph E., Rochester, N. Y. Automatic starter for electric motors.	566,936	Sept. 1	345	80	76	1348
Putnam Pump Company. (See Putnam, Albert M., assignor.)						
Putney, W. E., et al. (See Gates, Eugene N., assignor.)						
Putt, John W., Nine Mile, Ind. Gate.	560,643	May 26	2412	552	75	1209
Putt, John W., Nine Mile, Ind. Farm-gate.	570,714	Nov. 3	544	126	77	739
Püttmann, Eduard, Schwelm, Germany. Making spotted sheet-metal articles.	553,224	Feb. 25	2526	.....	74	1025
Püttmann, Theodor B. (See Claus, Püttmann, and Felix.)						
Püttmann, Theodor B., and M. O. Claus, Leipsic-Gohlis, Germany. Mechanical musical instrument.	563,800	July 14	960	228	76	197
Pyle, Edwin I., Bridgeport, Conn. Safety attachment for elevators.	556,771	Mar. 24	2316	⁵⁴⁴ 545	74	1612
Pyle, George C., assignor of one-half to F. H. Ewers, Indianapolis, Ind. Electric-arc lamp.	556,437	Mar. 17	1751	407	74	1490
Pyle, George C., assignor of one-half to F. H. Ewers, Indianapolis, Ind. Electric-arc lamp.	556,898	Mar. 24	2333	597	74	1652
Pyle, George C., assignor of one-half to F. H. Ewers, Indianapolis, Ind. Electric-arc lamp.	570,053	Oct. 27	2335	⁵⁵³ 554	77	480
Pyle, William J., assignor to B. F. Hackney, Carthage, Mo. Folding bed.	564,644	July 28	2465	581	76	503
Pyott, Louis F. (See Goodell and Pyott.)						
Pyott, Louis T., Philadelphia, Pa. Variable-speed mechanism.	571,395	Nov. 17	1717	409	77	1001

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Q & C Company. (See Chase, Rodney G., assignor.)						
Quackenboss, Leonard G., Chicago, Ill. Bay-window	568,041	Sept. 22	2291	555	76	1749
Quackenbush, Henry M., Herkimer, N. Y. Adjustable stock for firearms	562,487	June 23	2483	602	75	1897
Quarrie, George, Brooklyn, assignor of one-half to C. J. Kintner, New York, N. Y. Elec- trotherapeutic body-wear	556,161	Mar. 10	121r	282 283	74	1374
Quarrier, Gustavus B., St. Albans, W. Va. Car-coupling	564,160	July 14	1643	384	76	321
Quast, Charles, Bucyrus, Ohio. Clutch	571,396	Nov. 17	1719	409	77	1002
Quatram, Franz, Pankow, Germany. Registering apparatus for telephones	553,964	Feb. 4	295	66	74	559
Quebe, Wesley S. (See Taylor, Farrell, and Quebe.)						
Queen, Montgomery, assignor to V. S. Queen, Brooklyn, N. Y. Car-fender	564,645	July 28	2467	581	76	503
Queen, Violetta S. (See Queen, Montgomery, assignor.)						
Queisser, Paul F. H., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric-arc lamp	573,617	Dec. 22	2734	650	77	1851
Quell, John A. (See Lehmann, Richard, assignor.)						
Quentell, William P., Kansas City, Mo. Type-writing machine	556,863	Mar. 24	2470	581 582 583	74	1641
Quereau, Evelyn M., Peekskill, N. Y. Hook and eye	569,767	Oct. 20	1860	441	77	378
Querfurth, Thurso von, New York, N. Y. Oil-engine	569,672	Oct. 20	1667	394 395	77	346
Quick, Elias B., Brooklyn, N. Y. Ceremonial gong	556,308	Mar. 10	1291	302	74	1387
Quick, Jacob K., Port Jervis, N. Y. Can-opener	565,564	Aug. 11	1132	273	76	845
Quiggin, Daniel A., Blundell Sands, England. Evaporator	571,242	Nov. 10	1469	344	77	939
Quigley, John H., assignor to J. B. Jones, Milwaukee, Wis. Wire-fence tool	572,826	Dec. 8	1304	312	77	1546
Quimby, Charles E., New York, N. Y. Electric lamp	556,693	Mar. 17	2165	506	74	1567
Quinan, Allen B., Baltimore, Md. Sinkers for fishing or other lines	565,030	Aug. 4	121	29	76	641
Quinby, Henry R., Rochester, N. Y. Switch for electric lamps	571,791	Nov. 24	2419	576	77	1150
Quinby, Henry R., Rochester, N. Y. Electric-arc lamp	571,792	Nov. 24	2420	577	77	1150
Quincy, Charles F. (See Lencke, John K., assignor.)						
Quinn, Hugh, Boston, Mass. Spring-supporting frame for bedsteads	567,656	Sept. 15	1617	389	76	1610
Quinn, John, and W. H. Bradley, Mingo Junction, Ohio. Tongs	553,737	Jan. 28	2239	530	74	462
Quinn, John E., Toledo, Ohio. Mail-pouch	561,127	June 2	85	24	75	1384
Quinn, Patrick H., New York, N. Y., assignor of one-half to A. Lexow, Hoboken, N. J. Electric carriage-lamp	554,089	Feb. 4	527	118	74	601
Quinn, Peter F. (See Busse, William J., assignor.)						
Quinn, Thomas J., Stoneham, Mass. Leather-graining machine	556,162	Mar. 10	1212	283 284	74	1374
Quinn, William E., Anniston, Ala. Combined pencil-holder and clip	556,209	Mar. 10	1293	302	74	1388
Quinn, William M., et al. (See Spencer, Oliver H. P. G., assignor.)						
Quint, Alanson D., Hartford, Conn. Automatic reversing mechanism for tool-holders	564,223	July 21	1740	407	76	353
Quintus, Charles. (See Quintus, Frank, P., and C.)						
Quintus, Charles and F., J. Ritchie, P. Quintus, P. Beebe, and F. Lukermann, Freeport, Ill. Threshing-machine	573,916	Dec. 29	3284	785 786	77	1968
Quintus, Frank. (See Quintus, Ritchie, Quintus, Beebe, and Lukermann.)						
Quintus, Frank, P., and C., Freeport, Ill. Band-cutter and feeder for threshing-machines	569,230	Oct. 13	886	210 211 212	77	185
Quintus, Paul. (See Quintus, Frank, P., and C.)						
Quintus, Paul. (See Quintus, Ritchie, Quintus, Beebe, and Lukermann.)						
Quitzo, Frederick F., Minoa, N. Y. Wheat-steamer	559,603	May 5	431	102	75	766
Qunilioan, Donald, et al. (See Berg, Peter H., assignor.)						
R. Bliss Manufacturing Company. (See Hood, Charles O., assignor.)						
R. E. Dietz Company, et al. (See Wright, Frederick K., assignor.)						
R. F. Beardsley Company. (See Beardsley, Robert F. W., assignor.)						
R. H. Wolf & Company. (See Kraus, Otto, assignor.)						
R. Herschel Manufacturing Company. (See Herschel, Herman R., assignor.)						
R. T. Palmer Company. (See Palmer and Mercer, assignors.)						
Raab, William, Cedar Falls, assignor to International Scale Works, Waterloo, Iowa. Pneumatic and spirit pressure scale	566,698	Aug. 25	3120	762 763	76	1257
Rabbidge, Farnell, Sydney, New South Wales. Connection for telephone apparatus	558,106	Apr. 14	1071	263	75	920
Rabbitt, James H., assignor of one-half to D. F. Murphy, Wethersfield, Conn. Trolley	558,741	Apr. 21	2158	520	75	439
Rabinowitz, Sundel, New York, N. Y. Metal window-cleaning chair	560,644	May 26	2413	552	75	1209
Raburn, John C. F., et al. (See Taylor, James T., assignor.)						
Rach, Carl, Chicago, Ill. Malted food	573,236	Dec. 15	2034	-----	77	1701
Radant, August F., Wausau, Wis. Calipers	572,827	Dec. 8	1305	313	77	1546
Radcliffe, Frank A., Cleveland, Ohio. Stop and waste cock	555,123	Feb. 25	2359	561	74	993
Radcliffe, Frank A., Cleveland, Ohio. Overflow-trap	565,565	Aug. 11	1134	273	76	845
Radcliffe, George H. (See Hemphill and Radcliffe.)						
Radclyffe, Dick E., et al. (See Price, John, assignor.)						
Radclyffe, Dick E., and T. Burrows, London, England. Machine for preparing fiber	571,173	Nov. 10	1349	315	77	918
Rademacher, Frank, assignor of one-half to J. Maier and G. Zobelein, Los Angeles, Cal. Power-transmitting device	558,835	Apr. 21	2312	563	75	467
Rademacher, Frank, assignor of one-half to J. Maier and G. Zobelein, Los Angeles, Cal. Oil-burning malt-kiln	561,518	June 2	809	197 198	75	1523
Rader, Jackson L., et al. (See Taylor, James T., assignor.)						
Radermacher, John, Kaukauna, Wis. Potato-harvester	555,401	Feb. 25	2841	669 670	74	1084
Raders, Joseph F., New York, N. Y. Yielding device	573,534	Dec. 22	2590	614	77	1822
Radke, Charles H., Kaukauna, Wis. Furnace-grate	572,275	Dec. 1	324	77	77	1341
Rae, John, New York, N. Y. Arc-lamp	572,064	Nov. 24	2900	684	77	1240
Raenche, William, assignor to Champion Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine	574,166	Dec. 29	3758	897	77	2054
Rafter, Joseph J., assignor of one-half to R. S. Peck, Hartford, Conn. Fastening device	562,417	June 23	2363	577	75	1875
Ragan, John, Muldoon, Tex. Car-replacer	565,506	Aug. 11	1043	250	76	829
Ragatz, Samuel B., Los Angeles, Cal. Jar-sealer	562,418	June 23	2364	577	75	1875
Ragland, U. S. (See Hudson, William, assignor.)						
Ragsdale, George W. (See Smith, John D., assignor.)						
Ragsdale, Harvey W., Trafalgar, Ind. Drive-grate	562,912	June 30	3252	785	75	2061
Rahn, Ernst, Elberfeld, Germany. Machine for cutting leather shoe-laces	564,899	July 28	2887	692	76	579
Raiffeisen, Carl J., assignor to J. A. Lamy Manufacturing Company, Sedalia, Mo. Over- alls, &c.	573,292	Dec. 15	2136	512	77	1720
Railsback, Lafayette D., Indianapolis, Ind. Rotary plow	555,331	Feb. 25	2724	638 639	74	1062
Railsback, Lafayette D., Indianapolis, Ind. Ice-cream freezer	573,293	Dec. 15	2137	513	77	1721

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Railton, James, New Bedford, Mass., assignor to Northrop Loom Company, Saco, Me., and Hopedale, Mass. Shuttle	574,112	Dec. 29	3652	871	77	2034
Railton, William, and R. Campbell, Liverpool, England. Filter	555,020	Feb. 18	2159	{ 514 515 }	74	939
Railway Triplex Ticket Company. (See Abbott, John N., assignor.)						
Railway Triplex Ticket Company. (See King and Carhart, assignors.)						
Rainey, James L. (See Hart, Ozias P., assignor.)						
Rainey, John M., assignor of one-half to P. White, Kellerton, Iowa. Automatic car and air-brake coupling	574,268	Dec. 29	3981	{ 945 946 }	77	2093
Rakestraw, F. M. (See Lidka, Edward L., assignor.)						
Rakestraw, Roland, assignor of one-half to P. Lane, Wyoming, Ill. Swinging gate	553,134	Jan. 14	1174	285	74	236
Rall, Frederick A., Tyler, Tex. Tool for cleaning out nuts	568,277	Sept. 22	2713	{ 650 301 }	76	1828
Ralph, Alson C., Somerville, Mass. Car-brake	558,208	Apr. 14	1236	{ 302 }	75	251
Ralston, Charles. (See Stone, Ralston, Gregg, and Holmes.)						
Ralston, James M., Wittens, Ohio. Coupling for oil-well pumps	552,621	Jan. 7	202	56	74	40
Ramage, Alexander S., assignor to J. C. Gilchrist, Cleveland, Ohio. Tinning or galvanizing metals	567,612	Sept. 15	1536	.....	76	1593
Ramage, Alexander S., assignor to J. C. Gilchrist, Cleveland, Ohio. Electrolysis of iron	570,956	Nov. 10	974	.....	77	848
Ramage, Alexander S., assignor of two-thirds to Peck & Roberts and V. P. Sherwin, Chicago, Ill. Pickling metals	568,412	Sept. 29	2941	707	76	1886
Rammoser, Albert, assignor to G. Lowenberg, Berlin, Germany. Self-igniting burner	572,093	Nov. 24	2998	703	77	1257
Ramos, Augusto F., St. Paulo, Brazil, assignor to Ramos Dryer Company, Syracuse, N. Y. Method of and apparatus for drying coffee	563,801	July 14	961	229	76	197
Ramos Dryer Company. (See Ramos, Augusto F., assignor.)						
Ramsay, William B., Hickory, N. C. Station-indicator	562,026	June 16	1711	416	75	1738
Ramsdell, Edgar E., et al. (See Osgood, Richard P., assignor.)						
Ramsdell, Osgood, et al. (See Osgood, Richard P., assignor.)						
Ramsden, Samuel. (See Andrus, Fernando W., assignor.)						
Ramsey, Creed H., assignor of one-half to J. Pennington, Pleasantville, Iowa. Adjustable burial-casket	565,566	Aug. 11	1135	274	76	845
Ranck, Joseph H., Hustontown, Pa. Horseshoe-nail clencher	570,185	Oct. 27	2580	613	77	528
Rand, Addison C., New York, N. Y. Foot-piece for compressed-air water-elevators	559,810	May 12	823	193	75	852
Rand, Charles A. A., Chicago, Ill. Self-binding harvester	554,030	Feb. 4	419	92	74	582
Rand, Charles A. A., Chicago, Ill. Harvester	555,883	Mar. 3	671	{ 160 161 }	74	1254
Rand, Charles E. (See Turney, Eugene T., assignor.)						
Rand, Charles N., Geneva, assignor of one-half to E. G. Wetherbee, Painesville, Ohio. Machine for correcting organ-reeds	562,913	June 30	3254	785	75	2062
Rand, Charles N., Geneva, assignor of one-half to E. G. Wetherbee, Painesville, Ohio. Organ-reed-tuning machine	573,103	Dec. 15	1789	{ 430 431 }	77	1658
Rand Drill Company. (See Halsey and Doney, assignors.)						
Rand, Edwin R. (See Wayne, Herbert N., assignor.)						
Randall, Charles A., London, England. Telephony	554,141	Feb. 4	628	142	74	620
Randall, Charles F., Denver, Colo. Trolley-catcher	569,352	Oct. 13	1102	261	77	227
Randall, Charles F., Denver, Colo. Trolley adjusting and regulating device	573,535	Dec. 22	2592	615	77	1832
Randall, George A., Newbury, Mass. Marsh-horseshoe	566,017	Aug. 18	1969	477	76	1025
Randall, James, assignor of one-half to T. H. Marshall, Charleston, W. Va. Starching-machine	562,661	June 23	2785	676	75	1954
Randall, John C., South Haven, Mich. Air-current regulator	557,428	Mar. 31	3478	834	74	1852
Randall, Joseph S., assignor of one-half to J. Ley, Grand Rapids, Mich. Rat-trap	559,604	May 5	432	103	75	767
Randall, Samuel A. (See Shaw, Henry F., assignor.)						
Randall, William H., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, of New Jersey. Linotype-machine	560,537	May 19	2162	494	75	1148
Randall, William P., Le Roy, N. Y. Wire fence	562,322	June 16	2209	537	75	1830
Randall, Williams P., assignor of one-half to A. Herning, Lawrence, Kans. Gate	559,909	May 12	1037	230	75	891
Randel, William. (See Kilmer and Randel.)						
Randolph, Beverly S., Frostburg, Md. Unloading apparatus	568,369	Sept. 29	2867	{ 689 690 }	76	1873
Randolph, Charles H. (See Hampton and Randolph.)						
Randolph & Clowes. (See Cotter, Charles A., assignor.)						
Randolph & Clowes. (See Deming, Ferdinand, assignor.)						
Randolph & Clowes. (See Dever and Cotter, assignors.)						
Randolph, John R., assignor of one-half to J. J. Magovern, Newark, N. J. Shuttle for sewing-machines	562,774	June 23	2986	723	75	1993
Randolph, William J., Oberlin, La. Threshing-machine	555,533	Mar. 3	82	18, 19	74	1145
Ranger, Harold P. (See Ayres and Ranger.)						
Rangey, Moses, and P. Plante, Schenectady, N. Y. Trolley-switch	561,128	June 2	86	24	75	1384
Ranville, Felix, et al. (See Billings, George W., assignor.)						
Rankin, Archibald P. (See Galt and Rankin.)						
Rankin, Edmund S., et al. (See Hanshue, William E., assignor.)						
Rankin, James W., Deep River, Conn. Chair	572,717	Dec. 8	1115	270	77	1510
Rankin, Ransom F. (See Timpson and Rankin.)						
Rankin, Ransom F., Philadelphia, Pa. Telephone	567,688	Sept. 15	1665	401	76	1619
Ranney, William D., Columbus, Ohio. Portable suspended crib	562,321	June 16	2208	537	75	1830
Rano, Charles O. (See Dean, Cyrus S., assignor.)						
Ransom, Albert, and A. J. Corrothers, Wise, W. Va. Electric alarm for steam-gages	568,370	Sept. 29	2869	690	76	1873
Ransom, Jonathan H., West New Brighton, N. Y. Bicycle-brake	554,031	Feb. 4	421	92	74	582
Ransom, William A., Jr. (See Faris, Richard W., assignor.)						
Ransome, Ernest L., Chicago, Ill. Illuminating-floor	570,102	Oct. 27	2435	578	77	500
Ranson, George O., assignor to himself and W. B. Lobner, Portland, Oreg. Vending device	572,029	Nov. 24	2831	667	77	1227
Ranton Boiler Company. (See Ranton, William J., assignor.)						
Ranton, William J., assignor to Ranton Boiler Company, Syracuse, N. Y. Generator	560,818	May 26	2707	622	75	1267
Rapaport, Isador B., Chicago, Ill. Locking device	563,882	July 14	1129	265	76	227
Raphael, Joseph. (See Cottet, Jules, assignor.)						
Raphael, Lippmann, assignor of two-thirds to G. P. and W. MacKintosh, Allegheny, Pa. Garment-stretching frame	567,603	Apr. 7	129	34	75	26
Rapieff, John, New York, N. Y. Automatic shell-fuse	559,495	May 5	249	{ 57 58 59 }	75	730
Rapley, Frederick H., assignor to Fox Solid Pressed Steel Company, Chicago, Ill. Body-bolster for railway-cars	562,488	June 23	2485	603	75	1898
Rapp, John W., New York, N. Y. T-bar	557,147	Mar. 31	2960	708	74	1758
Rapp, John W., New York, N. Y. Door	557,148	Mar. 31	2961	709	74	1759

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Rapp, Silas S., <i>et al.</i> (See Schroyer, Stephen, assignor.)						
Rappe, Emil, Chicago, Ill., assignor to H. J. Hopkins, Pleasantville, Pa. Gas-engine.....	571,498	Nov. 17	1899	{ 452 453 }	77	1034
Rappleve, Hannibal W., Philadelphia, Pa. Apparatus for condensing fumes from smelting-furnaces.....	557,880	Apr. 7	626	149	75	118
Rappleve, Hannibal W., Philadelphia, Pa. Insulator.....	557,881	Apr. 7	627	149	75	118
Rappleve, Hannibal W., Philadelphia, Pa. Safety device for elevators.....	560,645	May 26	2414	{ 552 553 }	75	1209
Rappleve, Hannibal W., Philadelphia, Pa. Method of and apparatus for drying materials.	566,797	Sept. 1	101	25	76	1299
Rappold, Frederick J., Erie, Pa. Hook and eye.....	564,255	July 21	1795	420	76	363
Rarer, George W. (See Langer, Gotthold, assignor.)						
Rarick, John Jr., and J. L. Walker, New Brighton, Pa. Valve-gear for oscillating engines.	557,228	Mar. 31	3113	747	74	1783
Rasbury, Robert J. (See Johnson, Lewis, assignor.)						
Rasch, Peter, Cleveland, Ohio. Apparatus for hoisting and unloading railway-cars.....	556,371	Mar. 17	1632	{ 379 380 }	74	1465
Rasch, Peter, Cleveland, Ohio. Hoisting and unloading railway-cars.....	564,646	July 28	2469	{ 582 583 }	76	503
Rasch, Peter, Cleveland, Ohio. Rail-clamp for hoisting and conveying apparatus.....	568,071	Sept. 22	2351	567	76	1759
Raschen, Julius, assignor to United Alkali Company, Limited, Liverpool, England. Making cyanids.....	567,551	Sept. 8	1425	343	76	1557
Raschen, Julius, assignor to United Alkali Company, Limited, Liverpool, England. Making cyanids.....	567,552	Sept. 8	1426	343	76	1557
Raschig, Fritz, Ludwigshafen, Germany. Process of cleaning wool and product therefor.	567,412	Sept. 8	1211		76	1518
Rasco, C. M., <i>et al.</i> (See Cooper, John A., assignor.)						
Rasco, J. B., <i>et al.</i> (See Cooper, John A., assignor.)						
Rasmusson, James P., and J. Oliver, Tacoma, Wash. Stove.....	559,207	Apr. 28	3011	728	75	618
Rastetter, Louis, Fort Wayne, Ind. Wood-rim-bending machine.....	565,923	Aug. 18	1729	{ 435 436 }	76	988
Ratcliff, Benjamin. (See Williams, James, assignor.)						
Ratcliff, John A., Columbus, Kans. Siding-spacing gage.....	565,299	Aug. 4	651	155	76	736
Ratcliff, Thomas, Jewett, Ill. Railway-tie.....	562,974	June 30	3381	813	75	2090
Ratcliff, Virgil, Russiaville, Ind. Weighing apparatus.....	563,802	July 14	966	229	76	197
Ratcliff, William H. (See Mills, Ratcliff, and Barr.)						
Ratcliffe, P. B. (See Dean, Claude D., assignor.)						
Rath, Joseph, Columbus, Ohio. Sprinkling attachment for hose.....	564,412	July 21	2063	483	76	412
Rathbun, Charles D., Grand Rapids, Mich. Lawn-sprinkler.....	568,042	Sept. 22	2293	555	76	1749
Rathbun, Henry E., and F. Bebbly, Pawtucket, R. I.; said Rathbun assignor to said Bebbly. Electric receptacle for flashing powder in flash-light burners.....	555,332	Feb. 25	2736	639	74	1062
Rathbun, Henry E., and F. Bebbly, Pawtucket, R. I.; said Rathbun assignor to said Bebbly. Flash-light apparatus for photographic purposes.....	572,718	Dec. 8	1116	270	77	1510
Rathenau, Walther. (See Kiliani, Rathenau, and Suter.)						
Rau, Emile F., Brooklyn, N. Y. Bicycle sprocket-wheel.....	560,929	May 26	2929	672	75	1308
Rau, Henry, Brooklyn, assignor to New York Bottle Cap and Machine Company, New York, N. Y. Apparatus for capping bottles.....	560,930	May 26	2930	{ 672 673 }	75	1308
Rau, John, assignor to F. L. and J. E. Salisbury and C. E. Brinckerhoff, Chicago, Ill. Bicycle.....	571,793	Nov. 24	2421	577	77	1151
Raubold, Max, Hopkinsville, Ky. Combination ice-shaver and milk-shaker.....	565,794	Aug. 11	1546	376	76	923
Ranchfuss, Herman, Duff, Colo. Combined honey-section press and foundation-fastener.....	553,936	Feb. 4	249	54	74	551
Rauert, Henry A., assignor to one-half to R. Swain, Portland, Oreg. Combined bicycle pants-guard and lock.....	573,104	Dec. 15	1791	431	77	1658
Rauhoff, John M., assignor to two-thirds to B. H. Loveless, Chicago, Ill., and J. Saunders, Marietta, Ga. Worm-screw.....	560,281	May 19	1732	394	75	1072
Rank, William. (See Young and Rank.)						
Ravenel, H. E. (See Christopher, Calvin F., assignor.)						
Ravenel, Samuel W., Boonville, Mo. Device for measuring land.....	563,410	July 7	292	67	76	58
Ravenscroft, George W., and N. L. Magnusson, Mogollon, N. Mex. Ter. Sectional cam.....	564,841	July 28	2794	665	76	561
Raverot, Pierre E., and G. A. Hess, Paris, France. Telephone-exchange system.....	569,470	Oct. 13	1284	302	77	259
Rawdon, George L., Cleveland, Ohio. Feeding attachment for type-writing machines.....	568,118	Sept. 22	2447	587	76	1778
Rawdon, Lucien, Windsor, Ohio. Thill-coupling.....	557,604	Apr. 7	131	34	75	26
Rawl, David, Batesburg, S. C. Cotton-picker.....	574,218	Dec. 29	3892	{ 926 927 }	77	2076
Rawlings, Samuel V. (See Holley and Rawlings.)						
Rawlings, Samuel V., <i>et al.</i> (See Holley, Seymour H., assignor.)						
Rawlinson, Herbert, San Francisco, Cal. Labeling-machine.....	567,041	Sept. 1	544	{ 127 128 }	76	1385
Rawson, William S., London, England. Electrolytical apparatus.....	560,931	May 26	2933	673	75	1309
Ray, Charles O. Gray, Me., assignor to Chase Lasting Machine Company, Portland, Me., and Boston, Mass. Pad-holder for lasting-machines.....	569,231	Oct. 13	890	212	77	186
Ray, Forest A., Springfield, Ohio. Telephone-transmitter.....	559,106	Apr. 28	2797	677	75	579
Ray, Forest A., Boston, Mass. Telephone-transmitter.....	572,182	Dec. 1	153	37	77	1307
Ray, Forest A., assignor to H. A. Clark, trustee, Boston, Mass. Telephone-transmitter.....	573,294	Dec. 15	2138	513	77	1721
Ray, Francis B., New York, N. Y. Bicycle-trainer.....	574,167	Dec. 29	3762	898	77	2055
Ray, Francis B., assignor to one-half to F. S. Ray, New York, N. Y. Bicycle-seat.....	574,342	Dec. 29	4105	975	77	2117
Ray, Frank S. (See Ray, Francis B., assignor.)						
Ray, Frederick L., East Haddam, Conn. Handle.....	569,768	Oct. 20	1861	441	77	378
Ray, George R., Manistee, Mich. Duplex steam-engine.....	570,054	Oct. 27	2338	{ 554 555 }	77	481
Ray, Henry S. G., Louisiana, Mo. Sash-fastener.....	573,295	Dec. 15	2140	513	77	1721
Ray, Joseph T., 2d, Newport, R. I. Shoe-polishing machine.....	573,917	Dec. 29	3256	786	77	1969
Ray, Samuel W. (See Bowell, James, assignor.)						
Ray, Samuel W. (See Vestal and Ray.)						
Ray, William D., Chicago, Ill. Electric-arc lamp.....	557,229	Mar. 31	3114	747	74	1783
Ray, William T., Georgetown, Tex. Attachment for cultivators.....	553,937	Feb. 4	251	54	74	552
Raybould, Samuel, Nelsonville, Ohio. Combined coal cutting and drilling machine.....	573,237	Dec. 15	2025	485	77	1701
Raymond, Edward B., Schenectady, N. Y., assignor to General Electric Company, of New York. Collecting-brush.....	573,105	Dec. 15	1791	431	77	1659
Raymond, Francis. (See Wilson, William C., assignor.)						
Raymond, Freeborn F., 2d, Newton, Mass. Heel compressing and loading machine.....	566,336	Aug. 25	2492	611	76	1139
Raymond, Freeborn F., 2d, Newton, Mass. Nail-distributing machine.....	566,337	Aug. 25	2494	{ 612 613 }	76	1140
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Heel molding and loading machine.....	559,789	May 5	756	{ 181 182 }	75	825
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Heel-nailing machine.....	561,607	June 9	976	233	75	1580

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Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Heel-attaching machine.....	561,608	June 9	978	{ 233 234	75	1580
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Gang nailing-machine.....	561,609	June 9	979	{ 234 235	75	1581
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Nail-distributer.....	561,610	June 9	984	236	75	1582
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Heel-nailing machine.....	561,611	June 9	985	236	75	1582
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Heel-nailing machine.....	569,055	Oct. 6	587	134	77	112
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Heel-nailing machine.....	569,517	Oct. 13	1377	{ 323 324	77	276
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Nail-strip.....	569,886	Oct. 20	2044	487	77	412
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Heel nailing and compressing machine.....	570,437	Oct. 27	3087	{ 732 733 734	77	621
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Heel-nailing machine.....	570,648	Nov. 3	423	{ 99 100 101	77	716
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Nail distributing and driving machine.....	571,499	Nov. 17	1903	{ 453 454	77	1034
Raymond, Freeborn F., 2d, Newton, and C. H. Fogg, Hyde Park, assignors to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Nail-feeding device.....	569,518	Oct. 13	1380	{ 324 325 326	77	276
Raymond, Freeborn F., 2d, Newton, and C. H. Fogg, Hyde Park, assignors to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Device for feeding nails.....	571,931	Nov. 24	2673	{ 633 634	77	1198
Raymond, George N., assignor of one-half to G. B. Perkins, Bridgeport, Conn. Button-hole-sewing machine.....	556,717	Mar. 17	2201	514	74	1574
Raymond, Henry, assignor of one-third to D. B. Bean, Knoxville, Tenn. Car-coupling.....	554,426	Feb. 11	1120	262	74	729
Raymond, Henry E., Beverly, assignor of one-half to A. Cogswell, Essex, Mass. Stand.....	567,507	Sept. 8	1361	327	76	1545
Raymond, John C., New York, N. Y. Air-gun.....	558,841	Apr. 21	2320	565	75	469
Raymond, John C., New York, N. Y. Bicycle.....	567,042	Sept. 1	549	128	76	1386
Raymond, Peter L., New Orleans, La. Bottle.....	567,917	Sept. 15	2037	488	76	1691
Raymond, Silas H., assignor to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper.....	555,052	Feb. 18	2232	533	74	952
Raymond, Silas H., assignor to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper.....	555,053	Feb. 18	2233	533	74	952
Raymond, Silas H., assignor to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper.....	564,647	July 28	2470	583	76	504
Raymond, Silas H., assignor to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper.....	564,648	July 28	2472	583	76	504
Raymond, Silas H., assignor to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper.....	567,508	Sept. 8	1361	328	76	1545
Raymond, Ward, Johnstown, Pa., assignor to Johnson Company, Cleveland, Ohio. Rail-way-switch.....	555,182	Feb. 25	2454	581	74	1012
Rayne, William R. (See House, John, assignor.)						
Rayner, Thomas J. (See Caird and Rayner.)						
Raynsford, Edward L., Susquehanna, Pa. Metallic packing.....	553,738	Jan. 28	2240	{ 530 531	74	462
Rea, Edward J., Washington, D. C. Valve.....	564,291	July 21	1860	435	76	374
Reach, Robert, Philadelphia, Pa. Skate-wheel.....	565,795	Aug. 11	1548	377	76	924
Read, Frank. (See Cullen, Harry, assignor.)						
Read, Lawson O., Chattanooga, Tenn. Refrigerator.....	556,372	Mar. 17	1624	381	74	1466
Read, Lawson O., Chattanooga, Tenn. Combined ice chest and crate.....	564,764	July 28	2674	636	76	540
Read, Thomas G., assignor of one-half to L. Streuber, Los Angeles, Cal. Fifth-wheel.....	554,375	Feb. 11	1025	238	74	710
Read, William, et al. (See Pollard, Enos C., assignor.)						
Reader, James H., Tyrone, Pa. Heating-furnace.....	556,899	Mar. 24	2534	597	74	1652
Reading Hardware Company. (See Schofer, George E., assignor.)						
Reagan, Daniel L., Boston, Mass. Traction-wheel.....	559,866	May 12	947	212	75	875
Reagan, Harry C., Jr., Philadelphia, Pa. Electric railway.....	556,210	Mar. 10	1294	303	74	1388
Reagan, Harry C., Jr., Philadelphia, Pa. Automatic fuse.....	560,819	May 26	2709	622	75	1268
Reagan, Harry C., Jr., Philadelphia, Pa. Electric railway.....	570,565	Nov. 3	247	62	77	684
Reagan, Harry C., Jr., Philadelphia, Pa. Magnetic path for underground electric railways.....	570,566	Nov. 3	251	63	77	684
Reagan, James, Philadelphia, Pa. Grate.....	566,093	Aug. 18	2085	{ 508 509	76	1046
Reagan, James, Philadelphia, Pa. Shaking-grate for marine or other boilers.....	566,094	Aug. 18	2090	510	76	1047
Ream, James D., and M. Lewis, Broken Bow, Nebr. Grain-elevator.....	572,448	Dec. 1	636	{ 150 151	77	1399
Ream, John L., assignor of one-half to J. C. Briggs, Axtell, Kans. Horseshoeing-rack.....	570,682	Nov. 3	492	115	77	730
Reams, Andrew J., Wichita, Kans., assignor of one-half to F. E. Potts, Detroit, Mich. Penholder.....	562,341	June 16	2253	546	75	1838
Reams, Andrew J., Chicago, Ill., assignor to Program Clock Company, of Illinois. Electric program-clock.....	563,883	July 14	1130	265	76	227
Reaser, Warren T., Lincoln, Nebr. Hardening cast-steel.....	552,546	Jan. 7	73	20	74	17
Reaser, Warren T., Lincoln, Nebr. Balanced slide-valve.....	556,373	Mar. 17	1627	381	74	1466
Reaser, Warren T., Altoona, Pa. Carpet-stretcher.....	562,027	June 16	1713	417	75	1739
Reaume, Denis J. (See Eisenhuth, Oscar, assignor.)						
Reazor, William N., assignor of one-half to C. Schertzing, Freeland, Pa. Eccentric.....	552,547	Jan. 7	74	21	74	17
Rebelski, August, Brooklyn, N. Y. Weighing-scale.....	555,661	Mar. 3	311	73	74	1186
Rebmann, Harry F., Philadelphia, Pa. Cover for stop-cock boxes and frame therefor.....	572,217	Dec. 1	214	52	77	1318
Rebsamen, Julius, Chicago, Ill. Racking apparatus.....	554,458	Feb. 11	1179	275	74	739
Reck, Anna N., et al. (See Nelson, Alfred, assignor.)						
Record, George J., Conneaut, Ohio. Device for opening cans.....	554,793	Feb. 18	1747	410	74	864
Record, George J., Conneaut, Ohio. Device for opening cans.....	555,334	Feb. 25	2728	640	74	1063
Record, George J., Conneaut, Ohio. Cover and lifting device.....	565,567	Aug. 11	1136	274	76	846
Record, George J., Conneaut, Ohio. Device for removing covers of cans or other receptacles.....	571,794	Nov. 24	2423	577	77	1151
Rector, Francis M., assignor to himself and E. S. Riggs, Eddyville, Iowa. Combined dust-pan and ventilator.....	554,537	Feb. 11	1300	306	74	762
Redden, Lowell E., Tempe, Ariz. Ter. Car-coupling.....	562,028	June 16	1714	417	75	1739
Redding, Jacob, New Castle, Ind. Device for changing gear of bicycles.....	572,828	Dec. 8	1306	313	77	1546
Redding, William F., Saratoga Springs, N. Y. Stop for vehicles.....	567,842	Sept. 15	1935	463	76	1670
Redding, William H., Worcester, Mass. Doup-heddle for leno-weaving.....	571,795	Nov. 24	2424	578	77	1151
Redeker, Ferdinand H., and F. J. Timmerwilke, Cincinnati, Ohio. Embossing-roller.....	567,918	Sept. 15	2038	489	76	1691

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Reder, Odo. (See Bowles, Campbell, and Reder.)						
Redfern, Joseph. (See Taylor and Dias, assignors.)						
Redfield, Charles T., Glen Haven, N. Y. Saw	559,309	Apr. 28	3198	773	75	652
Redfield, Charles T., Glen Haven, N. Y. Thill-coupling	560,538	May 19	2164	495	75	1149
Redfield, Charles T., Glen Haven, N. Y. Nut-lock	571,286	Nov. 10	1540	365	77	953
Redifer, Charles J., Munson Station, Pa. Track-brace	554,728	Feb. 18	1632	385	74	843
Redman, Thomas. (See Nichol, Frank E., assignor.)						
Redmond, Daniel H., administrator. (See Redmond, Daniel M.)						
Redmond, Daniel H., and C. B. Baldwin, Philadelphia, Pa. Umbrella rib and stretcher	571,623	Nov. 17	2108	506	77	1072
Redmond, Daniel M., deceased; D. H. Redmond, Philadelphia, Pa., administrator. Oil-holder	554,308	Feb. 11	917	211	74	690
Redway Manufacturing Company. (See Gibbs, William E., assignor.)						
Reece, John, et al. (See Fenwick, Albert D., assignor.)						
Reece, John, deceased, Boston, Mass.; M. Reece and F. A. Shea, administrators. Sewing-machine for finishing buttonhole-pieces	571,796	Nov. 24	2425	578	77	1152
Reece, Joseph, Pulaski, N. Y. Electrician's screw-driver	553,965	Feb. 4	297	66	74	559
Reece, Marietta, et al., administrators. (See Reece, John.)						
Reece, William H., assignor to J. Stone, Northampton, Mass. Switch-throwing device	571,733	Nov. 17	2312	552	77	1110
Reece, William R., and J. B. Primm, assignors of one-third to H. N. Poepping, St. Louis, Mo. Separable stuffing-box gland	564,028	July 14	1387	323	76	273
Reed, Adam, St. Joseph, Mo., assignor of one-half to G. J. Winter, Buffalo, N. Y. Welt-shoe	563,803	July 14	967	230	76	197
Reed, Albert S. (See Harris and Reed.)						
Reed, B. D., et al. (See Kennedy, Richard G., assignor.)						
Reed, Carroll H., New York, N. Y. Bicycle-tire	564,339	July 21	1938	457	76	388
Reed, Carroll H., New York, N. Y. Mucilage-bottle	568,922	Oct. 6	346	80	77	66
Reed, Charles E., assignor to A. G. Beaunisne, Chicago, Ill. Pattern tracing and cutting machine. (Reissue)	11,569	Sept. 29	3522	844 845 846	76	1996
Reed, Charles J., et al. (See Friant and Linn, assignors.)						
Reed, Charles J., et al. (See Linn, Allen B., assignor.)						
Reed, Charles J., et al. (See Linn, Allen D. and A. B., assignors.)						
Reed, Charles J., et al. (See Raymond, Silas H., assignor.)						
Reed, Charles J., Orange, N. J. Magnetic ore-separator	572,369	Dec. 1	502	118	77	1373
Reed, Charles J., Orange, N. J. Mechanism for separating magnetic from non-magnetic substances	572,370	Dec. 1	505	119	77	1374
Reed, Charles L. (See Root, Reed, and Hale.)						
Reed, Clarence E. (See Holder and Reed.)						
Reed, George E., Philadelphia, Pa. Capsule-forming device	564,340	July 21	1940	458	76	389
Reed, Harrison, Logansport, Ind. Automatic pipe connection	555,333	Feb. 25	2726	639	74	1062
Reed, Henry A., Newark, N. J., assignor to J. D. Gould, Brooklyn, N. Y. Cable for electric fire-alarms	565,217	Aug. 4	495	118	76	709
Reed, Henry A., Newark, N. J., assignor to J. D. Gould, Brooklyn, N. Y., and C. A. Hanson, East Orange, N. J. Electric cable for fire-alarm systems	565,178	Aug. 4	429	103	76	696
Reed, J. Warren. (See Neighbours, Charles C., assignor.)						
Reed, James A. (See Wallace and Reed.)						
Reed, James H. (See Peters, Heber C., assignor.)						
Reed, James F., Millvale, Pa. Air-chamber	571,243	Nov. 10	1470	344	77	940
Reed, John C., Allegheny, Pa. Cast-metal article	570,769	Nov. 3	643	147	77	756
Reed, John C., Allegheny, Pa. Water-closet	571,244	Nov. 10	1471	345	77	940
Reed, Lloyd. (See Kelley, Isaac M., assignor.)						
Reed, Nathan F., Johnson, Vt. Potato fork or scoop	566,868	Sept. 1	222	51	76	1324
Reed, Norman H., Santa Barbara, Cal. Photographic-card drier	570,338	Oct. 27	2900	688	77	526
Reed, Orlando B., et al. (See Becker, Adolph, assignor.)						
Reed, Samuel L., Ebensburg, and W. S. Reed, Johnstown, Pa. Railway-gate	556,211	Mar. 10	1297	303	74	1388
Reed, William S. (See Reed, Samuel L., and W. S.)						
Reed, William S., Leominster, Mass. Automatically-operated stringed musical instrument	558,419	Apr. 14	1593	329	75	317
Reed, William T. (See Kihn and Reed.)						
Reeder, Franklin H. (See Saxton and Reeder.)						
Reeder, Washington, Lake City, Mich. Insect remover and destroyer	560,932	May 26	2934	674	75	1309
Reel, John, assignor of one-half to J. A. Sanderson, French Camps, Miss. Clevis	571,686	Nov. 17	2209	532	77	1091
Reel, John, assignor of one-half to J. A. Sanderson, French Camps, Miss. Harness attachment for vehicles	571,797	Nov. 24	2428	578	77	1152
Reenstierna, Gustaf L., assignor to T. King, trustee, Boston, Mass. Chain	566,095	Aug. 18	2094	511	76	1048
Reenstierna, Gustaf L., assignor to T. King, trustee, Boston, Mass. Comb-cleaner	568,169	Sept. 22	2530	609	76	1794
Rees, Charles S. (See Essick and Rees.)						
Rees, Thomas M., Pittsburg, Pa. Steam-boiler	574,001	Dec. 29	3454	826 827 828 829 830	77	1998
Reese, Franklin T., and C. A. Willis, Carnegie, Pa. Combined sleeping and parlor car	562,241	June 16	2071	502 503	75	1805
Reese, Franklin T., and C. A. Willis, Carnegie, Pa. Combined sleeping and parlor car	562,242	June 16	2076	504	75	1805
Reese, Thomas, Jr., Newark, N. J. Furnace-grate	562,196	June 16	2005	485	75	1792
Reese, William M., Dillon, Kans. Plaster	554,142	Feb. 4	630		74	652
Reessing, Fred, Moline, Ill. Nut-lock	556,642	Mar. 17	2089	489	74	1320
Reeve, Budd, Buxton, N. D. Means for treating seed	571,017	Nov. 10	1076	251	77	867
Reeve, Frederic, Stockton, Cal. Car-fender	566,225	Aug. 18	2304	564	76	1088
Reeves, Albert S., assignor of one-half to J. B. Getsinger, Bridgeton, N. J. Bottle-molding machine	562,154	June 16	1933	469 470	75	1778
Reeves, Clinton W., Los Angeles, Cal. Mucilage-bottle	571,456	Nov. 17	1813	433	77	1019
Reeves & Co. (See Reeves and Kailor, assignors.)						
Reeves, Ginnie L. (See Ogden, Dora, assignor.)						
Reeves, Henry A., and M. W. Boman, Plymouth, Ill. Corn-harvester	563,411	July 7	294	67	76	58
Reeves, Henry C. (See Burns and Reeves.)						
Reeves, John L., and J. F. Morris, Fordyce, Pa.; said Morris assignor to said Reeves. Hay-rack	558,842	Apr. 21	2322	565	75	470
Reeves, Madison W., Sayre, Pa. Swing	557,882	Apr. 7	628	149	75	118
Reeves, Madison W., Sayre, Pa. Staging-jack	563,309	July 7	133	31	76	28
Reeves, Marshal T., and J. N. Kailor, assignors to Reeves & Co., Columbus, Ind. Straw-carrier attachment for threshing-machines	557,701	Apr. 7	312	75	75	59
Reeves, Milton O., assignor to Reeves Pulley Company, Columbus, Ind. Friction-clutch	565,691	Aug. 11	1361	331	76	890
Reeves, Newell A., assignor of one-half to J. W. Hutchins, Alvord, Tex. Drag-saw	555,884	Mar. 3	673	161	74	1254
Reeves Pulley Company. (See Reeves, Milton O., assignor.)						
Regan, Annie F., administratrix. (See Regan, Daniel S.)						
Regan, Daniel S., San Francisco, Cal., assignor to Power Transmitter Company, Jersey City, N. J. Power-transmitter	558,107	Apr. 14	1072	263	75	220

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Regan, Daniel S., San Francisco, Cal., assignor to Power Transmitter Company, Jersey City, N. J. Hoisting mechanism	558,108	Apr. 14	1074	264	75	220
Regan, Daniel S., deceased; A. F. Regan, administratrix, assignor of one-half to S. Bennett, San Francisco, Cal. Gearing for gas or explosive engines	558,420	Apr. 14	1595	359	75	317
Regan, John W., Boston, Mass. Hose-nozzle	568,876	Oct. 6	280	65	77	54
Regan, John W., Boston, Mass. Door-opener	569,056	Oct. 6	588	134	77	113
Regan, Valley C., Rockford, Ill. Starching-machine	571,798	Nov. 24	2420	579	77	1152
Reger, Jacob W., C. W. and G. D. Denison, Judson, Mo. Mole-trap	563,310	July 7	134	31	76	28
Register, Henry C., Philadelphia, Pa. Dental handpiece	554,032	Feb. 4	421	93	74	582
Regnier, Moses, Ghent, Minn. Band-cutter and spreader for threshing-machines	573,701	Dec. 22	2914	689	77	1884
Reh, William C. (See Hartman, Noble W., assignor.)						
Rebheim, Albert C., Menominee, Mich. Patch for bicycle-tires	568,794	Oct. 6	139	34	77	29
Reh fuss, George, J. G., and M. O., assignors to C. C. Hancock, Philadelphia, Pa. Apparatus for manufacturing hair-pins	573,536	Dec. 22	2594	615 616	77	1823
Reh fuss, John G. (See Reh fuss, George, J. G., and M. O.)						
Reh fuss, Martin O. (See Reh fuss, George, J. G., and M. O.)						
Reh fuss, Martin O., assignor to M. J. Myers, Philadelphia, Pa. Hook and eye	561,437	June 2	673	196	75	1497
Reh fuss, Martin O., assignor to M. J. Myers, Philadelphia, Pa. Multiple eye for garment-fastenings	561,519	June 2	812	198	75	1524
Rehill, John W., Somerville, N. J. Cash-register	570,818	Nov. 3	723	165 166	77	772
Rehlin, Charles J., Allegheny, Pa., assignor of one-half to E. B. Baily. Toy or badge	559,343	Apr. 28	3266	789	75	664
Rehm, Jacob F., Chicago, Ill. Fruit cutting and pitting machine	569,888	Oct. 20	1970	468 469	77	399
Reiber, Henry. (See Hough and Reiber.)						
Reich, George, Amsterdam, N. Y. Liquid-conveyer	556,025	Mar. 10	946	225	74	1325
Reichard, George A., Minneapolis, Minn. Condenser	570,103	Oct. 27	2435	579	77	500
Reichardt, Ferdinand A., New York, N. Y. Tool and tool-handle	574,043	Dec. 29	3529	843	77	2012
Reichardt, Henry C., Pottsville, Pa. Pneumatic action for musical instruments	558,985	Apr. 23	2582	638	75	536
Reichardt, Henry C., Pottsville, Pa., assignor to H. P. Kock and J. Wieler, Brooklyn, N. Y. Pneumatic action for musical instruments	568,278	Sept. 22	2714	651	76	1828
Reichel, Carl G. M., Altona, Germany. Smoke-helmet	571,018	Nov. 10	1077	251	77	867
Reichel, Emil B. W., Gross-Lichterfelde, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Contact device for electrically-propelled vehicles	555,263	Feb. 25	2598	609	74	1038
Reichel, Emil B. W., Gross-Lichterfelde, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Trolley-support	556,864	Mar. 24	2475	583	74	1642
Reichel, Emil B. W., Gross-Lichterfelde, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Automatic cut-out and resistance-regulator	558,109	Apr. 14	1076	264	75	221
Reichelt, Carl F., Berlin, Germany. Self-fastening button	553,938	Feb. 4	252	55	74	552
Reichenbach, John, Egg Harbor City, N. J. Axle-lubricator	572,276	Dec. 1	325	78	77	1341
Reichenbach, Oscar, London, England. Apparatus for cleaning wool	555,885	Mar. 3	675	162 163	74	1254
Reichenbach, William F., Rochester, N. Y. Indicator	573,106	Dec. 15	1792	432	77	1659
Reichert, Charles O. (See Dimler and Reichert.)						
Reichert, John, assignor of one-half to L. J. Elliott, Racine, Wis. Snap-hook	553,017	Jan. 14	968	234	74	195
Reichold, Gustav H., Ozone Park, N. Y. Burglar-alarm	562,197	June 16	2007	485	75	1792
Reid, Alban H., Philadelphia, Pa. Milk-cooler	557,883	Apr. 7	628	149 150	75	118
Reid, Alfred J. H., Henderson, Tenn. Planter and fertilizer distributor	554,729	Feb. 18	1633	386	74	843
Reid, Charles H., Danbury, Conn. Hat-pinning-out machine	570,715	Nov. 3	546	127	77	740
Reid, Charles H., Danbury, Conn. Hand-operated hat-rounding machine	570,734	Nov. 3	584	134 135	77	746
Reid, Edwin S., New York, N. Y., assignor to Standard Underground Cable Company, Pittsburg, Pa. Terminal for electric cables	574,343	Dec. 29	4106	975	77	2117
Reid, Jennie, Pond Creek Station, Ind. Ter., assignor of two-thirds to M. C. Lamb and K. B. Clark, Wichita, Kans. Canopy for bicycles	557,605	Apr. 7	131	34	75	26
Reid, Joseph J., Salineville, Ohio. Device for displaying lace-curtains	564,451	July 21	2126	497	76	422
Reid, Lem W., Mound, Tex. Electric railway	558,110	Apr. 14	1078	264	75	221
Reid, Walter F., Addlestone, and E. J. V. Earle, London, England. Nitro compound	568,877	Oct. 6	282		77	54
Reid, William A. (See Carey and Reid.)						
Reid, William A., assignor to N. O. Nelson Manufacturing Company, St. Louis, Mo. Chain-making machine	573,537	Dec. 22	2600	616 617	77	1824
Reiff, William H., Philadelphia, Pa. Burglar-alarm	563,617	July 7	643	150	76	121
Reifgraber, Joseph J., St. Louis, Mo. Perforating-machine	564,100	July 14	1522	357	76	299
Reifgraber, Joseph J., St. Louis, Mo. Printing telegraphy	564,101	July 14	1526	358 359 360	76	300
Reifschneider, Felix, Brooklyn, N. Y. Album	554,090	Feb. 4	528	118	74	601
Reigart, Jacob, Oberlin, Pa. Music-leaf turner	565,031	Aug. 4	122	29, 30	76	641
Reilly, James B., and C. F. Ziegler, South Bethlehem, Pa. Sash-fastener	567,689	Sept. 15	1667	401	76	1619
Reilly, Patrick, Philadelphia, Pa. Apparatus for cleaning ships' bottoms	560,646	May 26	2417	553	75	1210
Reilly, Robert M., Baltimore, Md. Clamping-jaw for vises	569,057	Oct. 6	589	135	77	113
Reils, John A., Omaha, Nebr. Bridle	566,798	Sept. 1	105	26	76	1300
Reily, John P., assignor of two-thirds to W. B. Addington, and C. W. Block, St. Louis, Mo. Sleeve-protector	569,471	Oct. 13	1286	303	77	259
Reily, John P., assignor of two-thirds to W. B. Addington, and C. W. Block, St. Louis, Mo. Sleeve-protector	569,472	Oct. 13	1287	303	77	259
Reimann, Johannes, Union Hill, N. J. Combination horse collar and hame	568,208	Sept. 22	2593	624	76	1805
Reimer, Johann D. H., Hamburg, Germany. Jacket for steam-pipes	568,989	Oct. 6	480	107	77	91
Reimers, Ferdinand, Davenport, Iowa. Cultivator or plow	572,829	Dec. 8	1310	314	77	1547
Rein, Gustavus, assignor to St. Louis Register Company, St. Louis, Mo. Street-car register	561,129	June 2	87	24 25 26	75	1384
Reinert, John F., assignor of one-half to E. G. Hammond, Elgin, Ill. Automatic hoisting, carrying, and lowering mechanism	568,990	Oct. 6	481	109	77	92
Reinhardt, Charles C., New York, N. Y. Skate	568,547	Sept. 29	3196	770	76	1932
Reinhardt, Christoph, Newark, N. J. Candle-holder for Christmas trees	562,155	June 16	1935	470	75	1778
Reinhardt, Franz C., Paterson, N. J. Braiding-machine	554,309	Feb. 11	919	211	74	690
Reinhardt, James H., Newark, N. J. Numbering-head	561,946	June 9	1573	382	75	1692
Reinhardt, Charles, St. Louis, Mo., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Welding-die	568,043	Sept. 22	2293	556	76	1749
Reinhold, Hermann, Berlin, Germany. Wire mattress	562,323	June 16	2210	537	75	1831
Reinisch, Franz J., Lemberg, Austria-Hungary. Smoke-consuming furnace	564,649	July 28	2473	583	76	504

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Reinstine, Nathan. (See Dorn and Reinstine.)						
Reis, Charles L., Richmond, N. Y. Watchman's time-recorder	556,212	Mar. 10	1300	304	74	1389
Reising, Casper. (See Lorenz and Reising.)						
Reisinger, Obied D., St. Paul, Minn. Sash-holder	563,983	July 14	1314	306	76	259
Reisner, Frank, Eugene, Oreg. Key-fastener	564,452	July 21	2127	498	76	422
Reisner, Lewis C., assignor to E. F. Bowman, Lancaster, Pa. Calipers	553,595	Jan. 28	1992	472	74	416
Reisser, Adolf, Vienna, Austria-Hungary. Paper-feeding machine	567,043	Sept. 1	550	128 129	76	1386
Reissig, Gustav H., Syracuse, N. Y. Hand-vice	556,163	Mar. 10	1214	284	74	1374
Reissing, Heinrich, Berlin, Germany. Jug for beer, &c	558,660	Apr. 21	2013	487	75	412
Reissmann, Frederick, West Point, N. Y. Miter-gage attachment for rules	571,052	Nov. 10	1129	264	77	878
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company, of New York. Armature for dynamo-electric machines	559,910	May 12	1038	230	75	891
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company, of New York. Securing field-magnet poles	573,107	Dec. 15	1794	432	77	1659
Reiste, Amos F., Panther, Iowa. Fence-stay	554,005	Feb. 4	369	81	74	573
Reitenbach, H. F. (See Blanke, Louis H., assignor.)						
Reith, Anton. (See Adams, Lawson, assignor.)						
Reitz, William H., Somerset, Pa. Wheat steamer, heater, and feed-regulator	567,509	Sept. 8	1363	323	76	1545
Rekenthaler, Joseph A., Cushing, Iowa. Shield for corn-cultivators	563,508	July 7	466	109	76	89
Relay Manufacturing Company <i>et al.</i> (See Ziegler, John G., assignor.)						
Rembert, Henry, <i>et al.</i> (See Griffin, Thomas J., assignor.)						
Remig, Philip W., Brooklyn, N. Y. Electric-light attachment for gas-fixtures	559,403	May 5	100	22	75	700
Remington Arms Company. (See Bradley, Hazen W., assignor.)						
Remington Arms Company. (See Fay, Rimmon C., assignor.)						
Remington-Sholes Typewriter Company. (See Sholes, Zalmom G., assignor.)						
Remlik Company. (See Sanford and Kilby, assignors.)						
Remmers, Bernhard, Brooklyn, N. Y. Filter-press	564,715	July 28	2573	610	76	523
Remus, August E., assignor of one-third to C. J. Gotsch, Oak Park, Ill. Wheel-measure ..	571,313	Nov. 10	1586	377	77	963
Remus, Teodor, Dresden, Germany. Device for bending cardboard	561,814	June 9	1349	322	75	1619
Remy, Albert F., Mansfield, Ohio. Key-opening can	563,666	July 7	752	179	76	143
Remy, Albert F., Mansfield, Ohio. Key-opening can	563,687	July 7	759	179	76	143
Remy, Albert F., Mansfield, Ohio. Die for making can-heads	563,688	July 7	762	180	76	143
Renaud, Leon A., <i>et al.</i> (See Davis, Clifton H., assignor.)						
Rendel, Gustav H., Frankfort-on-the-Main, Germany. Rotating brush	565,218	Aug. 4	497	118	76	709
Renehan, James J., New Britain, Conn. Car-fender	559,084	Apr. 28	2746	668	75	567
Renfro, Robert E. (See Batson, Marshal E., assignor.)						
Renne, William C. (See Crosby, Hartwell A., assignor.)						
Renner, August, Jr., New Orleans, La. Sounding-post for musical instruments	563,689	July 7	764	180	76	143
Rennerfelt, Knut T., Uhlfors, Sweden. Horseshoe with detachable calks	556,278	Mar. 10	1449	339	74	1417
Rennison & Co., John. (See Mafera, Guy, assignor.)						
Renshaw, Alfred H. (See McKen and Renshaw.)						
Rensselaer Manufacturing Company. (See Kuichling and Rowe, assignors.)						
Rensselaer Manufacturing Company. (See Rowe, Ellis L., assignor.)						
Renstrom, Nils A. (See Slater and Renstrom.)						
Renton, Robert W. (See Finlayson, Alexander W., assignor.)						
Renz, Carl J., New York, N. Y. Fountain-pen	557,149	Mar. 31	2963	709	74	1759
Renz, Carl J., New York, N. Y. Fountain-pen	564,842	July 28	2795	665	76	562
Renz, Carl J., New York, N. Y. Reservoir attachment for pens	568,627	Sept. 29	3345	802	76	1961
Reom, Nelson Z., assignor, by mesne assignments, of one-half to Cotton Bros. & Co., Oakland, Cal. Fire-ladder apparatus	558,986	Apr. 28	2583	628	75	536
Replogle, Mark A., Cedar Falls, Iowa. Electrical governor	565,032	Aug. 4	124	30	76	641
Repetto, William H., and J. M. Martin, Greenville, Ohio. Fence	572,719	Dec. 8	1117	270	77	1511
Respass, William R., Jr., assignor to W. H. Bofinger, New Orleans, La. Machine for grating fruits, &c	555,124	Feb. 25	2361	561	74	994
Rethey, Benjamin N., Champaign, Ill. Mandolin	573,357	Dec. 15	2256	539	77	1743
Retter, Jacob, St. Louis, assignor to American Tripoli Company, Carthage, Mo. Water-filter	554,954	Feb. 18	2031	480	74	917
Rettger, Allen Company. (See Allen, John, assignor.)						
Rettig, Frank J., North Manchester, assignor to Buckeye Manufacturing Company, Anderson, Ind. Igniter for gas-engines	573,296	Dec. 15	2141	514	77	1721
Retzlaff, John. (See Bush, William J., assignor.)						
Reubel, Henry, New York, N. Y. Extension-bracket for curtain-poles	568,628	Sept. 29	3347	802	76	1961
Reuse, Jean, Enghien, assignor to Compagnie Générale pour l'Exploitation des Machines à Fabriquer les Cigares (Brevets J. Reuse) Société Anonyme, Brussels, Belgium. Cigar-machine	554,606	Feb. 11	1425	333 334 335	74	786
Reussner, Albert F. L., assignor to G. Smith, Jersey City, N. J. Steam drop-hammer ..	553,261	Jan. 21	1403	342	74	292
Reuter, Gustav, Elberfeld, Germany. Jacquard mechanism for looms	561,130	June 2	92	26	75	1385
Reuter, John C., Chicago, Ill. Vehicle-wheel	566,869	Sept. 1	223	52	76	1324
Reuter, Michael J., Denver, Colo. Water-gate shut-off for boilers	557,702	Apr. 7	314	75	75	60
Reuter, Oscar. (See Sewall, Henry, assignor.)						
Reuther, John. (See Reuther, William and J.)						
Reuther, William and J., Elma, N. Y. Potato-digger	572,567	Dec. 8	840	202	77	1457
Reutlinger, John J., Philadelphia, Pa. Frying-pan	566,226	Aug. 18	2306	565	76	1088
Revelle, Hardy N., M. M. Ford, and J. W. Kelley, Buchanan, Ga. Traction-motor	572,371	Dec. 1	508	119 120	77	1374
Revolving Advertising Case Co. (See Rupert and Frazier, assignors.)						
Revolving Purifier Company. (See Scowden, Ransom T., assignor.)						
Rew, Ida M., New York, N. Y. Corset-waist	560,282	May 19	1733	394	75	1072
Rex, Calvin C., Tiro, Ohio. Windrower	554,794	Feb. 18	1748	410	74	864
Rex Cycle Company. (See Hicks, Bohn C., assignor.)						
Rex Cycle Company of Chicago. (See Hicks, Bohn C., assignor.)						
Rey, Valentine J. A., San Francisco, Cal. Type-preparing machine	561,063	May 26	3134	723 724	75	1347
Reyburn, John E. (See Dunn, Dennis, assignor.)						
Reyburn, John E., <i>et al.</i> (See Balz, Emil A., assignor.)						
Reyburn, John E., Philadelphia, Pa. Railway-brake	568,371	Sept. 29	2870	690	76	1873
Reyburn, John E., Philadelphia, Pa. Air-brake	568,923	Oct. 6	347	80	77	67
Reyer, Emil, South Bend, Ind. Poison-bottle indicator	555,708	Mar. 3	380	88	74	1198
Reyher, Rudolf, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Azine dye	557,022	Mar. 24	2754	.....	74	1695
Reyher, Rudolf, Frankfort-on-the-Main, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Azin dye and making it	559,062	Apr. 28	2714	75	561

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Reyher, Rudolf, Frankfort-on-the-Main, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Azin dye and making it	559,063	Apr. 28	2715	75	561
Reyman, Theodore, New York, N. Y. Electric-arc lamp	557,606	Apr. 7	133	35	75	26
Reynolds, Achsa H. (See Reynolds and Hudson.)						
Reynolds, Adrian J., assignor of one-half to W. S. Powers, Nashville, Mich. Hose-nozzle	571,799	Nov. 24	2430	579	77	1152
Reynolds, Andrew J., Worcester, Mass. Self-loading track-cleaning car	562,489	June 23	2485	603	75	1898
Reynolds, Arthur D. (See Grace and Reynolds.)						
Reynolds, Dexter, Evansville, Ind., assignor to T. M. Steinmetz, M. A. Tobin, A. Holthaus and G. P. Heckel, St. Louis, Mo. Laundering apparatus	554,795	Feb. 18	1749	410	74	864
Reynolds-Easton Company. (See Reynolds, Lewis G., assignor.)						
Reynolds, Edmund B., Cincinnati, Ohio. Check-bit	558,742	Apr. 21	2159	521	75	439
Reynolds, Edward F., Ashland, Wis. Discharge apparatus for pivoted spouts	570,055	Oct. 27	2340	555	77	481
Reynolds, Edwin, Milwaukee, Wis. Valve and valve-gear	552,926	Jan. 14	820	{ 199 } 200	74	167
Reynolds, Edwin, Milwaukee, Wis. Steam-trap	566,870	Sept. 1	225	52	76	1325
Reynolds, Elias, Franklinville, N. Y. Potato-digger	564,256	July 21	1796	421	76	364
Reynolds, Elizabeth M., Meadville, Mo. Ventilator	557,607	Apr. 7	134	35	75	26
Reynolds, George A., Utica, N. Y., assignor to Reynolds Railway Gate Company, of Maine. Automatic railway-gate	553,541	Jan. 28	1893	{ 447 } 448 449	74	399
Reynolds, George F. (See Reynolds, Henry and G. F.)						
Reynolds, George H., New York, N. Y., assignor to Crane Elevator Company, Chicago, Ill. Elevator-guide	559,539	May .5	327	78	75	746
Reynolds, George H., assignor to Crane Elevator Company, Chicago, Ill. Pump check and relief valve	571,887	Nov. 24	2591	{ 614 } 615	77	1182
Reynolds, George L. and A. H., and R. N. Hudson, Auburn, N. Y. Nailless horseshoe	552,925	Jan. 14	819	199	74	167
Reynolds, Henry and G. F., New Haven, Conn. Molding-machine	568,548	Sept. 29	3197	770	76	1932
Reynolds, J. A. (See Belcher and Hendley, assignors.)						
Reynolds, James E. (See Wezen and Reynolds.)						
Reynolds, John C., New York, N. Y. Electric cut-out	560,821	May 26	2712	623	75	1268
Reynolds, John H., assignor of one-half to C. H. Klinck and F. H. Burpee, New London, Conn. Air-compressor	572,372	Dec. 1	509	120	77	1375
Reynolds, John R., Hartford, Conn. Automatic speed-limit for engines	571,957	Nov. 24	2720	643	77	1208
Reynolds, John S. (See Stanley and Reynolds.)						
Reynolds, John W., Frankfort, Ind. Gate	567,772	Sept. 15	1801	432	76	1645
Reynolds, Lewis G., assignor to Reynolds-Easton Company, Dayton, Ohio. Machine for paraffining paper	559,605	May 5	435	103	75	767
Reynolds, Newton L., Bristol, Tenn. Cuff-holder	560,820	May 26	2711	622	75	1268
Reynolds, Noah H., Grand Rapids, assignor of one-half to Henderson Ames Company, Kalamazoo, Mich. Degree-booth	566,799	Sept. 1	106	26	76	1300
Reynolds, Noah H., assignor of one-half to C. W. Davidson, Grand Rapids, Mich. Automatic shutter for fire protection	574,002	Dec. 29	3457	827	77	1999
Reynolds Railway Gate Company. (See Reynolds, George A., assignor.)						
Reynolds, Stewart H., San José, Cal. Electric releasing device	552,924	Jan. 14	818	199	74	166
Reynolds, Thomas A., West Hoboken, N. J. Cuff-button	560,863	May 26	2807	644	75	1226
Reynolds, Walter J., Austin, Tex. Paint	553,966	Feb. 4	299	.....	74	559
Reynolds, Walter S., assignor to M. D. Shipman, C. E. and S. E. Bradt, De Kalb, Ill. Delivery-cart	562,914	June 30	3255	786	75	2062
Reynolds, Walter S., and M. D. Shipman, assignors to said Shipman, C. E. and S. E. Bradt, De Kalb, Ill. Wagon-brake	562,915	June 30	3256	786	75	2062
Reznicek, Anton, Jersey City, N. J. Bag-frame	557,023	Mar. 24	2756	{ 653 } 654	74	1695
Rheum, Emere. (See Sjolander, Eric O., assignor.)						
Rhegness, William E. (See Jackson and Rhegness.)						
Rhett, Roland, New York, N. Y. Marine propulsion	553,423	Jan. 21	1687	402	74	343
Rhind, Frank, Meriden, Conn. Automatic lighting device	563,412	July 7	296	67, 68	76	59
Rhind, Frank, Bridgeport, Conn. Oil cut-off for telescopic chandeliers	563,413	July 7	299	68	76	59
Rhind, Frank, assignor to Bridgeport Brass Company, Bridgeport, Conn. Holder for bicycle-lamps	555,183	Feb. 25	2456	582	74	1012
Rhind, Frank, Meriden, assignor to Bridgeport Brass Company, Bridgeport, Conn. Bicycle-lantern	559,946	May 12	1097	244	75	901
Rhind, Frank, assignor to Bridgeport Brass Company, Bridgeport, Conn. No-chimney burner	559,947	May 12	1098	244	75	901
Rhind, Frank, assignor to Bridgeport Brass Company, Bridgeport, Conn. Bicycle-lantern	559,948	May 12	1099	245	75	901
Rhind, Frank, assignor to Bridgeport Brass Company, Bridgeport, Conn. Latch for bicycle-lanterns	559,949	May 12	1101	245	75	902
Rhind, Frank, assignor to Bridgeport Brass Company, Bridgeport, Conn. Bicycle-bell	559,950	May 12	1102	245	75	902
Rhind, Frank, assignor to Bridgeport Brass Company, Bridgeport, Conn. Bicycle-lamp	560,109	May 12	1413	317	75	963
Rhind, Frank, assignor to Bridgeport Brass Company, Bridgeport, Conn. Bicycle-lamp	560,110	May 12	1414	317	75	964
Rhind, Frank, assignor to Bridgeport Brass Company, Bridgeport, Conn. Bicycle-lamp	560,174	May 12	1522	344	75	982
Rhind, Frank, assignor to Bridgeport Brass Company, Bridgeport, Conn. Bicycle-lamp	560,429	May 19	1996	456	75	1118
Rhind, Frank, assignor to Bridgeport Brass Company, Bridgeport, Conn. Bicycle-lantern	570,893	Nov. 3	867	201	77	802
Rhind, Frank, assignor to Bridgeport Brass Company, Bridgeport, Conn. Bicycle-lamp	570,894	Nov. 3	869	202	77	802
Rhind, Frank, S. G. Stoddard, and G. W. Baldwin, assignors to Bridgeport Brass Company, Bridgeport, Conn. Holder for bicycle-lamps	559,951	May 12	1103	246	75	902
Rhoades, Deloss, Randolph, N. Y. Wagon-brake	553,018	Jan. 14	968	{ 234 } 235	74	195
Rhoades, James W., Fostoria, Ohio. Oil-well-pumping apparatus	558,421	Apr. 14	1597	390	75	318
Rhoads, William S., West Beaver Creek, Md. Hay-loader	555,618	Mar. 3	222	52	74	1171
Rhodes, Charles M., Highland, N. Y. Clock-pendulum	563,618	July 7	644	150	76	121
Rhodes, Daniel H., Wellington, Kans. Railway-track gage	569,587	Oct. 13	1514	357	77	302
Rhodes, Frederick W. (See Holloway and Rhodes.)						
Rhodes, Jay B., Kalamazoo, Mich. Steam-pump	565,391	Aug. 4	798	190	76	765
Rhodes, John C., New Bedford, Mass. Eyelet	565,091	Aug. 4	241	59	76	661
Rhodes, John F., Bloomington, Ill. Metallic fence-post	562,976	June 30	3385	814	75	2090
Rhodes, John F., Athens, Ga. Pea-thresher	570,209	Oct. 27	2623	622	77	536
Rhodes, John J., Danvers, assignor of one-half to J. F. Desmond, Beverly, Mass. Shoe-rack	564,716	July 28	2576	610	76	524
Rhodes, John S., Birmingham, England, assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type-writer practice-keyboard	565,179	Aug. 4	431	103	76	696
Rhodes, Joshua. (See Nuttall, Thomas B., assignor.)						
Rhodes, Leverett E., Hartford, assignor to Waterbury Machine Company, Waterbury, Conn. Riveting-machine	565,568	Aug. 11	1138	{ 275 } 276	76	846
Rhodin, John G. A., Clifton Hall, assignor to Chloride Electrical Storage Syndicate, Limited, Clifton Junction, England. Plate for secondary voltaic batteries	567,044	Sept. 1	554	129	76	1387

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Rhodin, John G. A., Clifton Hall, assignor to Chloride Electrical Storage Syndicate, Limited, Clifton Junction, England. Plate for secondary voltaic batteries.....	567,045	Sept. 1	555	129	76	1387
Rhone, Charles I., Brooklyn, N. Y. Marine velocipede.....	562,098	June 16	1845	448	75	1761
Ribbe, Paul F., Berlin, Germany. Secondary battery.....	553,596	Jan. 28	1993	472	74	416
Rice, Alfred L. (See Rice, George M., 2d, and A. L.)						
Rice, Alva C., assignor to Stilwell-Bierce & Smith-Vaile Company, Dayton, Ohio. Friction-clutch.....	559,064	Apr. 28	2717	660	75	561
Rice, Charles D., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Apparatus for drawing tubes.....	565,726	Aug. 11	1431	349	76	902
Rice, Charles E., and S. F. Ettinger, assignors of one-half to A. N. Johnson, trustee, Little Rock, Ark. Car-fender.....	574,344	Dec. 29	4107	976	77	2117
Rice, Edmund, U. S. Army. Cape.....	573,618	Dec. 22	2735	650	77	1851
Rice, Edmund, U. S. Army. Shelter-tent.....	573,918	Dec. 29	3287	786 787	77	1969
Rice, Edwin W., Jr., Swampscott, Mass., assignor to General Electric Company, of New York. Alternating-current system.....	556,865	Mar. 24	2476	584	74	1642
Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company, of New York. Electric elevator.....	556,866	Mar. 24	2477	584	74	1643
Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company, of New York. Constant-potential alternating generator.....	567,197	Sept. 8	811	193	76	1447
Rice, Elisha H., Austin, Tex. Wire-and-picket-fence machine.....	559,985	May 12	1168	260	75	919
Rice, Frank L., assignor to Keystone Heater Company, Chicago, Ill. Heating attachment for gas or other stoves.....	555,466	Feb. 25	2973	708	74	1108
Rice, Frank L., assignor to Keystone Heater Company, Chicago, Ill. Combined stove and water-heater.....	559,606	May 5	436	103	75	768
Rice, Fred, Shopiere, Wis. Windmill-regulator.....	556,772	Mar. 24	2320	545	74	1613
Rice, Fred., assignor of one-half to F. L. Steadwell, Shopiere, Wis. Vehicle-wheel.....	554,731	Feb. 18	1641	387	74	844
Rice, George F., Worcester, Mass. Pipe-wrench.....	561,340	June 2	492	124	75	1465
Rice, George H., Wausau, Wis. Cutter-head.....	567,046	Sept. 1	556	129 130	76	1387
Rice, George M., 2d, and A. L., Worcester, Mass. Separating silk from mixed fibers.....	555,054	Feb. 18	2234		74	952
Rice, George M., 2d, and A. L., Worcester, Mass. Separating mixed fibers.....	558,111	Apr. 14	1079		75	221
Rice, Jesse A. (See Montgomery and Rice.)						
Rice, John, Fish Head, Ala. Saw cotton-gin.....	553,597	Jan. 28	1994	473	74	417
Rice, John H. (See Leighton and Rice.)						
Rice, John T., Little River, Tex. Knee-pad.....	573,919	Dec. 29	3288	787	77	1969
Rice, John W., assignor of one-half to D. B. Wesson, Springfield, Mass. Car-brake mechanism.....	559,344	Apr. 28	3267	789	75	664
Rice, Richard H., Providence, R. I. Cylindrical rotary valve.....	571,687	Nov. 17	2210	532	77	1091
Rice, Samuel H., assignor to S. Rice, Ukiah, Cal. Abstract-book for county records.....	561,240	June 2	281	70	75	1422
Rice, Sarah. (See Rice, Samuel H., assignor.)						
Rice & Sargent Engine Company. (See Lindgren and Whatley, assignors.)						
Rice, Wentworth, and P. S. Farrar, Deadwood, S. D. Ore-concentrator.....	554,143	Feb. 4	631	142	74	620
Rich, Abraham L., Pittsburg, Pa. System of supplying water to locomotives.....	553,967	Feb. 4	300	66, 67	74	559
Rich, Abraham L., Pittsburg, Pa. System of supplying water to locomotives.....	560,822	May 26	2714	623 624	75	1268
Rich, Benjamin F., Spanish Fort, Tex. Reaping-machine.....	557,608	Apr. 7	136	35, 36	75	27
Rich, Enos A. (See Mitchell and Rich.)						
Rich, Francis A., Denver, Colo. Changeable gearing for bicycles.....	555,886	Mar. 3	677	163 164	74	1255
Rich, Francis A., Telluride, Colo. Electric steam and gas engine.....	572,449	Dec. 1	639	151	77	1400
Rich, Frederick O., Brooklyn, N. Y. Puzzle.....	564,161	July 14	1044	384	76	321
Rich, John W., and R. H. Ross, Philadelphia, Pa. Device for shifting rollers of type-writing machines.....	566,536	Aug. 25	2883	701	76	1212
Rich, Lester M., Cedar Rapids, Iowa. Pump-valve.....	556,213	Mar. 10	1301	304	74	1389
Richard, Jean E., New York, N. Y. Machine for carding hooks and eyes.....	561,341	June 2	493	124 125	75	1465
Richard, Jules, assignor to himself and R. Harilos, Paris, France. Mechanism for operating rollers in winding or unwinding bands, aprons, &c.....	557,024	Mar. 24	2758	654 655	74	1695
Richard, Julius, Bisbee, Ariz. Ter. Boiler-tube cutter.....	558,422	Apr. 14	1599	390	75	318
Richard, Julius, and F. Colman, Bisbee, Ariz. Ter.; said Richard assignor to said Colman. Wrench.....	573,702	Dec. 22	2916	689	77	1884
Richard, William, assignor of one-half to D. A. Parks, Bloomville, Ohio. Shears.....	568,580	Sept. 29	3251	782	76	1943
Richard, William, assignor of two-thirds to A. Hollenback and D. A. Parks, Bloomville, Ohio. Shears.....	564,102	July 14	1534	360	76	301
Richards, Charles V., Skowhegan, Me. Waistband-support.....	567,613	Sept. 15	1537	372	76	1593
Richards, Dora L. (See Richards, Sierra L., assignor.)						
Richards, Edward N., Springfield, Mass. Truck for railway-cars.....	571,932	Nov. 24	2680	634 635	77	1200
Richards, Ernest R., Sheboygan, Wis., assignor to Armstrong Cork Company, Pittsburg, Pa. Bottle-washer.....	566,471	Aug. 25	2788	677	76	1194
Richards, Francis H., Hartford, Conn. Reversing driving device.....	558,661	Apr. 21	2016	488	75	413
Richards, Francis H., Hartford, Conn. Sewing-machine.....	558,662	Apr. 21	2019	488	75	413
Richards, Francis H., Hartford, Conn. Sewing-machine.....	558,663	Apr. 21	2023	488	75	414
Richards, Francis H., Hartford, Conn. Needle for sewing-machines.....	558,664	Apr. 21	2026	489	75	414
Richards, Francis H., Hartford, Conn. Weighing-machine.....	559,208	Apr. 28	3012	728	75	618
Richards, Francis H., Hartford, Conn. Weighing-machine.....	559,209	Apr. 28	3016	729 730	75	619
Richards, Francis H., Hartford, Conn. Weighing-machine.....	559,210	Apr. 28	3022	730 731	75	620
Richards, Francis H., Hartford, Conn. Bagging apparatus for weighing-machines.....	559,211	Apr. 28	3028	732	75	621
Richards, Francis H., Hartford, Conn. Weighing-machine.....	559,212	Apr. 28	3033	732 733	75	622
Richards, Francis H., Hartford, Conn. Weighing-machine.....	559,213	Apr. 28	3040	734 735	75	623
Richards, Francis H., Hartford, Conn. Weighing-machine.....	559,214	Apr. 28	3046	735 736	75	624
Richards, Francis H., Hartford, Conn. Weighing-machine.....	559,215	Apr. 28	3053	737	75	625
Richards, Francis H., Hartford, Conn. Supply apparatus.....	559,216	Apr. 28	3056	737	75	625
Richards, Francis H., Hartford, Conn. Automatic weighing-machine.....	559,746	May 5	657	158 159	75	807
Richards, Francis H., Hartford, Conn. Weighing-machine.....	559,747	May 5	664	160	75	808
Richards, Francis H., Hartford, Conn. Knife-edge pivot for scale-beams.....	559,748	May 5	670	160	75	809

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Richards, Francis H., Hartford, Conn. Weighing-machine	559,749	May 5	671	{ 160 161	75	809
Richards, Francis H., Hartford, Conn. Knife-edge pivot for scale-beams	559,750	May 5	672	{ 161 161	75	811
Richards, Francis H., Hartford, Conn. Weighing apparatus	559,751	May 5	680	{ 162 163	75	811
Richards, Francis H., Hartford, Conn. Weighing-machine	560,542	May 19	2169	{ 496 496	75	1149
Richards, Francis H., Hartford, Conn. Weighing-machine	560,543	May 19	2174	{ 497 497	75	1150
Richards, Francis H., Hartford, Conn. Feeding apparatus for weighing-machines	560,544	May 19	2178	{ 497 497	75	1150
Richards, Francis H., Hartford, Conn. Weighing-machine	560,545	May 19	2183	{ 498 499	75	1151
Richards, Francis H., Hartford, Conn. Weighing-machine	560,600	May 19	2279	{ 522 523	75	1169
Richards, Francis H., Hartford, Conn. Bicycle	560,647	May 26	2420	{ 533 534	75	1210
Richards, Francis H., Hartford, Conn. Spring-wheel for vehicles	560,648	May 26	2425	{ 554 554	75	1211
Richards, Francis H., Hartford, Conn. Speed-modifying apparatus	561,520	June 2	812	{ 198 199	75	1524
Richards, Francis H., Hartford, Conn. Weighing-machine	561,521	June 2	818	{ 200 200	75	1525
Richards, Francis H., Hartford, Conn. Weighing apparatus	561,522	June 2	828	{ 200 200	75	1527
Richards, Francis H., Hartford, Conn. Knob attachment	562,419	June 23	2366	{ 578 578	75	1875
Richards, Francis H., Hartford, Conn. Knob attachment	562,420	June 23	2368	{ 578 578	75	1876
Richards, Francis H., Hartford, Conn. Chuck	562,421	June 23	2370	{ 578 578	75	1876
Richards, Francis H., Hartford, Conn. Geared bicycle	562,662	June 23	2786	{ 677 677	75	1954
Richards, Francis H., Hartford, Conn. Register	563,884	July 14	1133	{ 265 266	76	228
Richards, Francis H., Hartford, Conn. Weighing-machine	565,219	Aug. 4	498	{ 118 119	76	709
Richards, Francis H., Hartford, Conn. Weighing-machine	565,220	Aug. 4	505	{ 120 120	76	710
Richards, Francis H., Hartford, Conn. Weighing-machine	565,221	Aug. 4	510	{ 121 122	76	711
Richards, Francis H., Hartford, Conn. Weighing-machine	565,222	Aug. 4	515	{ 122 122	76	711
Richards, Francis H., Hartford, Conn. Weighing-machine	565,223	Aug. 4	521	{ 123 123	76	712
Richards, Francis H., Hartford, Conn. Weighing-machine	565,224	Aug. 4	528	{ 124 124	76	713
Richards, Francis H., Hartford, Conn. Weighing-machine	565,225	Aug. 4	536	{ 125 125	76	714
Richards, Francis H., Hartford, Conn. Weighing-machine	565,226	Aug. 4	541	{ 126 127	76	715
Richards, Francis H., Hartford, Conn. Weighing-machine housing	565,227	Aug. 4	546	{ 127 128	76	716
Richards, Francis H., Hartford, Conn. Weighing and packing machine	565,228	Aug. 4	548	{ 128 129	76	716
Richards, Francis H., Hartford, Conn. Weighing-machine	565,229	Aug. 4	553	{ 129 129	76	717
Richards, Francis H., Hartford, Conn. Variable-speed geared bicycle	568,581	Sept. 29	3252	{ 783 783	76	1943
Richards, Francis H., Hartford, Conn. Bearing for weighing-machines	568,582	Sept. 29	3254	{ 783 784	76	1944
Richards, Francis H., Hartford, Conn. Conveyer	568,583	Sept. 29	3259	{ 784 784	76	1945
Richards, Francis H., Hartford, Conn. Weighing-machine	568,584	Sept. 29	3261	{ 784 785	76	1945
Richards, Francis H., Hartford, Conn. Weighing-machine	568,585	Sept. 29	3267	{ 785 786	76	1946
Richards, Francis H., Hartford, Conn. Endless conveyer	568,586	Sept. 29	3271	{ 786 786	76	1946
Richards, Francis H., Hartford, Conn. Weighing-machine	568,587	Sept. 29	3273	{ 787 787	76	1946
Richards, Francis H., Hartford, Conn. Weighing-machine	570,291	Oct. 27	2774	{ 660 661	77	564
Richards, Francis H., Hartford, Conn. Weighing-machine	570,292	Oct. 27	2780	{ 661 662	77	564
Richards, Francis H., Hartford, Conn. Weighing-machine	570,293	Oct. 27	2785	{ 662 663	77	565
Richards, Francis H., Hartford, Conn. Weighing-machine	570,294	Oct. 27	2789	{ 664 664	77	566
Richards, Francis H., Hartford, Conn. Weighing-machine	570,295	Oct. 27	2796	{ 665 666	77	567
Richards, Francis H., Hartford, Conn. Weighing-machine	570,296	Oct. 27	2803	{ 666 666	77	568
Richards, Francis H., Hartford, Conn. Weighing-machine	570,297	Oct. 27	2807	{ 667 667	77	568
Richards, Francis H., Hartford, Conn. Weighing-machine	570,298	Oct. 27	2812	{ 668 669	77	569
Richards, Francis H., Hartford, Conn. Weighing-machine	570,299	Oct. 27	2818	{ 669 670	77	570
Richards, Francis H., Hartford, Conn. Supply apparatus for weighing-machines	570,300	Oct. 27	2824	{ 671 671	77	571
Richards, Francis H., Hartford, Conn. Weighing-machine	570,301	Oct. 27	2826	{ 672 672	77	572
Richards, Francis H., Hartford, Conn. Weighing-machine	570,302	Oct. 27	2831	{ 673 673	77	573
Richards, Francis H., Hartford, Conn. Weighing-machine	570,303	Oct. 27	2836	{ 674 674	77	574
Richards, Francis H., Hartford, Conn. Weighing-machine	570,304	Oct. 27	2842	{ 675 675	77	575
Richards, Francis H., Hartford, Conn. Shuttle-actuating mechanism for sewing-machines	571,457	Nov. 17	1814	{ 434 434	77	1019
Richards, Francis H., Hartford, Conn. Weighing-machine	572,065	Nov. 24	2901	{ 685 685	77	1240
Richards, Francis H., Hartford, Conn. Weighing-machine	572,066	Nov. 24	2904	{ 686 686	77	1241
Richards, Francis H., Hartford, Conn. Automatic weighing-machine	572,067	Nov. 24	2909	{ 687 687	77	1242
Richards, Francis H., Hartford, Conn. Weighing-machine	572,068	Nov. 24	2914	{ 688 688	77	1243
Richards, Francis H., Hartford, Conn. Weighing-machine	572,069	Nov. 24	2919	{ 689 689	77	1244
Richards, Francis H., Hartford, Conn. Transferring apparatus	572,070	Nov. 24	2923	{ 690 691	77	1244
Richards, Francis H., Hartford, Conn. Weighing-machine	572,071	Nov. 24	2934	{ 692 693	77	1246

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Richards, Francis H., Hartford, Conn. Weighing-machine	572,088	Nov. 24	2974	699 700	77	1254
Richards, Francis H., Hartford, Conn. Weighing-machine	572,089	Nov. 24	2985	701 702	77	1255
Richards, Francis H., Hartford, Conn. Machine for applying paste	572,373	Dec. 1	512	121	77	1375
Richards, Francis H., Hartford, Conn. Rod-cutting apparatus	572,374	Dec. 1	517	121 122	77	1376
Richards, Francis H., Hartford, Conn. Cigarette-machine	572,375	Dec. 1	524	123 124	77	1377
Richards, Francis H., Hartford, Conn. Weighing-machine	573,418	Dec. 15	2354	562 563	77	1761
Richards, Francis H., Hartford, Conn. Weighing-machine	573,419	Dec. 15	2361	564 565	77	1762
Richards, Francis H., Hartford, Conn. Weighing apparatus	573,420	Dec. 15	2366	565 566	77	1763
Richards, Francis H., Hartford, Conn. Weighing-machine	573,421	Dec. 15	2371	566	77	1763
Richards, Francis H., Hartford, Conn. Key-operated mechanism	573,619	Dec. 22	2736	650 651	77	1851
Richards, Francis H., Hartford, Conn. Gearing	573,620	Dec. 22	2741	651 652	77	1852
Richards, Francis H., Hartford, Conn. Jacquard mechanism	573,621	Dec. 22	2748	652 653	77	1854
Richards, Francis H., Hartford, Conn. Jacquard mechanism	573,622	Dec. 22	2752	653 654	77	1855
Richards, Francis H., Hartford, Conn. Jacquard mechanism	573,623	Dec. 22	2759	655 656	77	1856
Richards, Francis H., Hartford, Conn. Weighing-machine	574,168	Dec. 29	3763	898 899	77	2055
Richards, Francis H., Hartford, Conn. Weighing-machine	574,169	Dec. 29	3771	901	77	2056
Richards, Francis H., Hartford, Conn. Weighing-machine	574,170	Dec. 29	3775	902	77	2056
Richards, Francis H., Hartford, Conn., assignor to A. B. Cox, Drifton, Pa., and H. B. Cox, New York, N. Y., executors of Eckley B. Cox, deceased. Speed-reducing driving mechanism	553,317	Jan. 21	1511	362	74	310
Richards, George M., Erie, Pa. Automatic fluid-pressure friction-clutch	574,269	Dec. 29	3983	946	77	2093
Richards, Isaac P., Providence, R. I. Revolving table-waiter	560,541	May 19	2168	495	75	1149
Richards, John. (See Orton, Frederick, assignor.)						
Richards, John, et al. (See Berrighin, Peter H., assignor.)						
Richards, John O., Covington, Ky. Nut-lock	557,230	Mar. 31	3117	747	74	1783
Richards, John T., Gardiner, Me. Oil-retaining device for axles	560,539	May 19	2165	495	75	1149
Richards, John W., Muscatine, Iowa. Awning-bracket	565,924	Aug. 18	1791	436	76	988
Richards, Marcus C., Aurora, Ill. Door-hanger	573,108	Dec. 15	1795	432	77	1659
Richards, Robert, Brooklyn, N. Y. Reclining-chair, cot, or lounge	572,277	Dec. 1	326	78	77	1341
Richards, Sierra L., assignor to D. L. Richards, Baltimore, Md. Gas or oil stove	570,957	Nov. 10	974	227	77	848
Richards, Theron A., Bayonne, N. J. Blower	557,705	Apr. 7	319	76	75	61
Richards, Thomas W., Brooklyn, assignor of one-half to J. Paulson, Richmond Hill, N. Y. Bottle	554,498	Feb. 11	1243	291	74	751
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-coupling	554,310	Feb. 11	920	211	74	691
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-coupling	555,619	Mar. 3	223	53	74	1171
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-buffer	557,884	Apr. 7	629	150	75	119
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-buffer	558,209	Apr. 14	1238	302	75	251
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Locomotive-tender	559,496	May 5	255	59, 60	75	731
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-coupling	560,964	May 26	2808	644 645	75	1286
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-coupling	562,916	June 30	3257	786	75	2062
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-buffer	566,018	Aug. 18	1970	477 478	76	1025
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-buffer	568,072	Sept. 22	2352	567 568	76	1759
Richards, William E., New York, N. Y. Card-box	556,279	Mar. 10	1450	339	74	1417
Richards, William G., Hillsborough, Ohio. Railway-car	555,971	Mar. 10	840	200 201	74	1307
Richards, William G., Hillsborough, Ohio. Railway-car	571,577	Nov. 17	2032	483	77	1058
Richardsen, Joseph, assignor to Richardsen & Schroeder Patent Smoke Consuming, Fuel Economizing and Steam Boiler Company, Sydney, New South Wales. Steam-boiler	564,104	July 14	1536	361	76	301
Richardsen & Schroeder Patent Smoke Consuming, Fuel Economizing and Steam Boiler Company. (See Richardsen, Joseph, assignor.)						
Richardson, Alonzo F., New York, N. Y. Pocket pill-box	564,103	July 14	1535	360	76	301
Richardson, Alvarado, et al. (See Dittbenner, Hermann G., assignor.)						
Richardson, Braxton B. (See McEhull and Richardson.)						
Richardson, Charles F., Athol, Mass. Spirit-level	570,056	Oct. 27	2342	555	77	481
Richardson, Charles N., assignor of one-half to H. F. Bowley, Belvidere, Ill. Bag-tie	563,414	July 7	300	68	76	60
Richardson, Christopher, et al. (See Whiting, William M., assignor.)						
Richardson, David, Footscroy, Victoria. Governor for fluid-motors	556,476	Mar. 17	1811	421	74	1501
Richardson, David J. (See Barr, John U., Jr., assignor.)						
Richardson, F. Rivers, et al. (See Cunningham, Andrew O., assignor.)						
Richardson, George E., Pomona, Mich. Scraper	569,887	Oct. 20	2044	487	77	412
Richardson, George J., trustee. (See Focer, Daniel, assignor.)						
Richardson, Harvey G., Tacoma, Wash. Shingle-edger	560,147	May 12	1472	332	75	974
Richardson, Herbert, London, England. Machine for forming organ-pipes	572,830	Dec. 8	1311	314	77	1547
Richardson, Hymen L., Gainesville, Ga. Coffee or tea pot	572,909	Dec. 8	1433	343	77	1572
Richardson, J. W. (See Horton, James A., assignor.)						
Richardson, James, New York, N. Y. Type-writing machine	554,730	Feb. 18	1636	386 387	74	843
Richardson, James, New York, N. Y. Combination-lock	568,795	Oct. 6	140	34	77	29
Richardson, John R., assignor of four-fifths to T. R. Hughes and F. H. Emery, Scranton, Pa. Coal-separator	555,185	Feb. 25	2458	582	74	1013

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Richardson, Joseph F., Birks City, Ky. Churn	561,131	June 2	94	26	75	1385
Richardson, Lewis C., assignor to H. E. Chesebrough and C. M. Heck, Indianapolis, Ind. Broom	559,607	May 5	439	103	75	768
Richardson, Myron H., Wichita, Kans. Advertising device	553,598	Jan. 28	1997	473	74	417
Richardson, Norman C. (See Klose, Karl A., assignor.)						
Richardson, Paris, Deshler, Nebr. Vehicle-wheel	573,238	Dec. 15	2026	486	77	1701
Richardson, Sidney, London, England. Thermometer and barometer	555,828	Mar. 3	565	136	74	1233
Richardson, Solon O., Jr., Toledo, Ohio. Shade for incandescent electric lamps	557,342	Mar. 31	3326	798	74	1823
Richardson, Solon O., Jr., Toledo, Ohio. Glass-blowing machine	570,881	Nov. 3	842	197	77	796
Richardson, Willard D., and G. J. Holl, Cleveland, Ohio. Shaking screen	553,360	Jan. 21	1586	379	74	324
Richardson, William A. (See Harrington and Richardson.)						
Richardson, William A., Worcester, Mass. Discharging mechanism for firearms	552,699	Jan. 7	349	92	74	68
Richardson, William A., assignor to Harrington & Richardson Arms Company, Worcester, Mass. Loading-gate for revolvers	565,692	Aug. 11	1362	332	76	890
Richardson, William H., assignor to himself, W. and C. H. Walton, Trenton, N. J. Wrist-guide and tailpiece for stringed instruments	569,032	Oct. 6	545	126	77	103
Richardson, William S., Boston, Mass. Fastener for gloves	566,699	Aug. 25	3124	764	76	1258
Richardson, William S., Boston, Mass. Spring-eye	567,198	Sept. 8	813	193	76	1448
Richardson, William S., Boston, Mass. Fastener for gloves	573,188	Dec. 15	1939	467	77	1685
Richardson, William S., assignor to Ball and Socket Fastener Company, Boston, Mass. Fastening for gloves or other articles	557,703	Apr. 7	316	76	75	60
Richardson, William S., assignor to Ball and Socket Fastener Company, Boston, Mass. Fastener for gloves	557,704	Apr. 7	317	76	75	60
Richardson, William S., Boston, Mass., assignor to Ball and Socket Fastener Company, Boston, Mass., and Nashua, N. H. Fastener for gloves	566,338	Aug. 25	2497	613	76	1140
Richardson, William S., Boston, Mass., assignor to Ball and Socket Fastener Company, Boston, Mass., and Nashua, N. H. Fastener for arctics, overshoes, &c	566,339	Aug. 25	2499	613	76	1141
Richardson, William S., Boston, Mass., assignor to Ball and Socket Fastener Company, Boston, Mass., and Nashua, N. H. Fastener for gloves or other articles	566,340	Aug. 25	2501	613	76	1141
Richardson, William S., Boston, Mass., assignor to Ball and Socket Fastener Company, Boston, Mass., and Nashua, N. H. Fastener for gloves	572,566	Dec. 8	839	201	77	1457
Richardson, Winfield S., Philadelphia, Pa., assignor to National Waste Utilization Company, Camden, N. J. Apparatus for treatment of garbage	567,724	Sept. 15	1723	413	76	1630
Riche, Gustave, and A. Rivret, Roubaix, France. Apparatus for cleaning wool, &c	562,975	June 30	3383	813 814	75	2090
Riche, Louis, Detroit, Mich. Watch	567,510	Sept. 8	1364	328	76	1546
Richey, Harry D., Bellevue, Pa. Spring-heel for shoes	555,402	Feb. 25	2843	670	74	1084
Richman, Harry J., et al. (See Richman, Wilbert, assignor.)						
Richman, Wilbert, assignor of three-fourths to H. J. Richman, Salem, W. H. Stehle, and S. L. Doughty, Atlantic City, N. J. Truck	553,661	Jan. 28	2104	498	74	436
Richmond, Albert D., Sacramento, Cal. Car-axle box	555,184	Feb. 25	2457	582	74	1013
Richmond, Cassius M., New York, N. Y., assignor, by mesne assignments, to Richmond Pneumatic Aluminum Truss Company, of New York. Truss	566,700	Aug. 25	3125	764	76	1258
Richmond, Don L., Wheeler, Ind. Feed-box and manger	556,900	Mar. 24	2536	598	74	1653
Richmond, Henry T., Malvern, Iowa. Vehicle-spring	559,085	Apr. 28	2748	668	75	567
Richmond Locomotive and Machine Works. (See Davis, Ezekiel F. C., assignor.)						
Richmond Locomotive and Machine Works. (See Mellin, Carl J., assignor.)						
Richmond Pneumatic Aluminum Truss Company. (See Richmond, Cassius M., assignor.)						
Richmond, Romulus R., Chariton, Iowa. Automatic machine-gun	572,771	Dec. 8	1207	292 293	77	1527
Richmond, Sterling P., Billings, Mo. Plow	571,688	Nov. 17	2211	532 533	77	1091
Richmond, Theodore L., assignor to Buffalo Scale Company, Buffalo, N. Y. Recording-scale	562,324	June 16	2211	538	75	1831
Richmond, William H., Mount Pleasant, assignor to Arbor City Chair Company, Ann Arbor, Mich. Swing	555,887	Mar. 3	679	164	74	1255
Richner, Herman J., and J. L. Fontaine, Cleveland, Ohio. Mail-box	570,270	Oct. 27	2741	652	77	558
Richter, Adolf, Rudolstadt, Germany. Automatic musical instrument	560,283	May 19	1734	394 395	75	1073
Richter, Adolf, Rudolstadt, Germany. Note-sheet for mechanical musical instruments	560,540	May 19	2166	495	75	1149
Richter, Charles, and R. T. Eschler, assignors of one-third to S. B. Goff, Camden, N. J. Electric-arc lamp	573,161	Dec. 15	1886	454	77	1676
Richter, Charles, and R. T. Eschler, assignors of one-half to S. B. Goff, Camden, N. J. Electric-arc lamp	573,162	Dec. 15	1887	454	77	1676
Richter, George H., Brookline, Mass. Filing receptacle and index	562,422	June 23	2374	578	75	1877
Richter, Max, Mildenau, Austria-Hungary. Smoke-consumer	553,542	Jan. 28	1899	449 450	74	399
Richter, Robert, Berlin, Germany. Rubber-dam clamp	562,490	June 23	2487	603	75	1898
Richter, William H., Blue Ridge, Mo. Plow	563,065	June 30	3523	846	75	2117
Rickard, Clyde A., and J. A. Lowrie, Seville, Ohio. Foot-warmer	567,166	Sept. 8	771	181	76	1440
Rickard, Sidney A., Saratoga Springs, N. Y. Capsule-machine	555,021	Feb. 18	2160	515	74	940
Ricker, John W., Chelsea, Mass. Stocking-foot pattern	558,563	Apr. 21	1845	449	75	382
Ricker, Wentworth G., Rochester, N. Y. Hay-carrier	554,311	Feb. 11	921	212	74	631
Rickerd, George W. (See Bair, Daniel M., assignor.)						
Rickerd, George W., Burns, Kans. Horse-driver	561,283	June 2	390	98	75	1446
Ricketts, James J., Pittsburg, Pa. Coupling	555,264	Feb. 25	2600	610	74	1083
Ricketts, James J., Pittsburg, Pa. Water-closet connection	566,470	Aug. 25	2785	671	76	1193
Rickmeyer, Azor P. (See Cobb and Rickmeyer.)						
Ricks, Albert, Berlin, Germany. Incandescent-lamp burner	560,649	May 26	2426	555	75	1211
Ricks, Hiram L., Eureka, Cal. Intake and filter	553,424	Jan. 21	1688	403	74	343
Rickson, Ernest L., Dubuque, Iowa. Car-door fastener	562,743	June 23	2931	711	75	1952
Riddell, John, Schenectady, N. Y. Tapping-head	567,793	Sept. 15	1834	440	76	1651
Riddelle, Philip S., Woodstock, Va. Window-sash lock	552,777	Jan. 7	509	125	74	96
Riddelle, Philip S., Woodstock, Va. Revolving window-sash	552,778	Jan. 7	513	125 126	74	96
Rider, Frank P., and H. P. Colliver, London, England. Spring-hinge	566,621	Aug. 25	3000	732	76	1236
Rider, Herbert E., Brooklyn, assignor to R. W. Inman, New York, N. Y. Electric lighter	562,775	June 23	2987	723	75	1993
Rider, Herbert E., New York, assignor of four-fifths to A. A. Hand, Lawrence, and J. V. Lamarche, Brooklyn, N. Y. Electrical soap	564,717	July 28	2577	610	76	524
Rider, May E., et al. (See Ogden, Ernest N., assignor.)						
Rider, May E., et al. (See Ogden and Meech, assignors.)						
Ridge, John, Nashua, N. H. Tool-handle	560,546	May 19	2188	499	75	1152
Ridge, Joseph, Chicago, Ill. Spring-tire for vehicle-wheels	573,920	Dec. 29	3290	787	77	1970
Ridge, Joseph, Chicago, Ill. Spring-tire for vehicle-wheels	573,921	Dec. 29	3291	788	77	1970

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Ridge, Joseph, Chicago, Ill. Spring-tire for vehicle-wheels	573,922	Dec. 29	3293	788	77	1970
Ridgeway, Otto B., <i>et al.</i> (See Donnellan, James S., assignor.)						
Ridgway, Charles J., Everett, Mass. Heating apparatus	563,984	July 14	1315	307	76	259
Ridgway, Charles L., Boston, assignor of one-half to J. B. Wilkinson, Everett, Mass. Grooving and seaming machine	555,335	Feb. 25	2729	640	74	1063
Rieckel, Adolph E. O., Brooklyn, N. Y. Device for removing insulation from electric wires	562,097	June 16	1844	448	75	1761
Riecker, Charles E., assignor of two-thirds to E. A. Schade and A. Turnbull, New Britain, Conn. Tobacco-pipe	553,074	Jan. 14	1072	261	74	215
Riedel, H., <i>et al.</i> (See Griffin, Thomas J., assignor.)						
Riedel, Henry. (See Long and Riedel.)						
Riedler, Alois, Berlin, Germany. Valve-gear	561,342	June 2	497	125	75	1462
Riedler, Alois, Berlin, Germany. Valve-gear	572,720	Dec. 8	1119	271	77	1511
Rieff, John G., and P. Kindlen, London, Wis. Jack-screw	560,933	May 26	2935	674	75	1309
Rieffel, John P., New York, N. Y. Kiln for decorating porcelain or glass	569,232	Oct. 13	891	212	77	186
Rieger, Landlin, Ottoville, Ohio. Shoe	562,663	June 23	2789	677	75	1955
Riegler, Alexander, Cincinnati, Ohio. Tank-valve	563,311	July 7	135	31	76	29
Riehl, John B., <i>et al.</i> (See Schwechler and Ingram, assignors.)						
Rieppel, John, Cowanesque, Pa. Coupling device	567,614	Sept. 15	1538	372	76	1593
Riera, Magin, Havana, Cuba. Insulator for electric wires	554,955	Feb. 18	2031	480	74	918
Ries, Elias E., Baltimore, Md. Telephone-switch	567,794	Sept. 15	1836	440	76	1651
Ries, Elias E., assignor to Ries & Henderson, Baltimore, Md. Electric metal-working apparatus	564,453	July 21	2128	498	76	423
Ries, Frederick C., and H. H. Johnson, Macon, Ga. Dental engine	572,030	Nov. 24	2832	668	77	1328
Ries & Henderson. (See Ries, Elias E., assignor.)						
Ries, Peter, St. Mary's, Pa. Fire-escape ladder	568,000	Sept. 22	2213	534	76	1735
Riess, Oscar, New York, N. Y. Chest-protector	552,670	Jan. 7	296	79	74	58
Riessner, Ernst P., Leipsic, Germany. Mechanical musical instrument	569,233	Oct. 13	893	213	77	186
Rieths, Otto H., Brooklyn, N. Y. Emergency car-brake	565,693	Aug. 11	1364	332	76	890
Riffle, James H., assignor of one-half to R. H. Main, Barry, Ill. Ventilator	567,361	Sept. 8	1130	271	76	1503
Riffle, John A., assignor of one-sixteenth to J. Higson, Denver, Colo. Amalgamator	573,163	Dec. 15	1888	454	77	1676
Rigby, Clark F., Mannington, W. Va. Rod-packing	572,910	Dec. 8	1425	343	77	1572
Rigby, Holden. (See Chouvelon, Alphonse M., assignor.)						
Rigby, Richard, <i>et al.</i> (See Roy, John J., assignor.)						
Rigby, William. (See Saville, Clifford, assignor.)						
Riggs, Alfred L., Knoxville, Pa. Ice-cream mold	561,727	June 9	1197	284	75	1621
Riggs, Alonzo B. (See Blackmer, James A., assignor.)						
Riggs, Ernest S. (See Rector, Francis M., assignor.)						
Riggs, Esom W. (See Sheff and Riggs.)						
Riggs, Henry B., New York, N. Y. Water-closet seat	553,789	Jan. 28	2311	545	74	476
Riggs, Henry B., New York, N. Y. Water-closet seat	564,900	July 28	2289	692	76	520
Riggs, John D. (See Hochholzer, Hill, and Riggs.)						
Riggs, John D., Toledo, Ohio. Slitting-machine	560,231	May 19	1636	372	75	1055
Riggs, John D., Hiawatha, Kans. Bicycle	571,397	Nov. 17	1720	409	77	1002
Riggs, Louis T., and G. E. Ely, Rochester, N. Y. Harness pad or lining	557,885	Apr. 7	631	150	75	119
Righter, Edmund K., Jersey City, N. J. Ball-retainer for antifriction wheel-bearings	570,146	Oct. 27	2510	595	77	514
Rightmayer, Frank, assignor to M. D. Johnson, Springfield, Ohio. Cistern-cleaner	565,925	Aug. 18	1793	437	76	989
Riglander, Jacob W., New York, N. Y. Eyeglasses	565,796	Aug. 11	1548	377	76	924
Riky, Robert A., <i>et al.</i> (See Huxtable, James, assignor.)						
Rile, Charles H., Conshohocken, Pa. Game	554,835	Feb. 18	1823	427	74	880
Riley, Charles E. (See Illingworth, Harry L., assignor.)						
Riley, Edward, Spokane, Wash. Portable fire-escape	567,553	Sept. 8	1428	343	76	1558
Riley, Edwin, Livermore Falls, Me. Attachment for paper-making machines	565,121	Aug. 4	303	72	76	673
Riley, George L., Wilmington, Del. Disintegrating-machine	557,886	Apr. 7	632	150	75	119
Riley, Martin. (See Gay, Elijah, assignor.)						
Riley, Martin, Washington, D. C. Cap-stopper for bottles	562,243	June 16	2078	504	75	1806
Riley, S. E. (See Woods, Granville T., assignor.)						
Rimer, Solomon. (See Dollison and Rimer.)						
Rinehart, Bentley L., and B. M. Turner, Camden, N. J., assignors to New Century Motor Company, of New Jersey. Reversing-gear	567,005	Sept. 1	482	111	76	1373
Rinehart, George A. (See Lippy, Finrock, Rinehart, and Francis.)						
Rinehart, Ira C. C., Des Moines, assignor to D. Evans, Pope county, Iowa. Cigar-tip cutter	558,611	Apr. 21	1933	470	75	398
Riner, J. T., <i>et al.</i> (See Holzheimer, Henry C., assignor.)						
Ring, Franz, Portland, Oreg. Chair-seat	565,231	Aug. 4	556	130	76	717
Ring, James, Cleveland, Ohio. Steel-hoop-manufacturing plant	555,972	Mar. 10	843	201	74	1307
Ring, John E., Chatham, N. Y. Baby-jumper	560,148	May 12	1473	333	75	974
Ringland, Adam W., Toledo, Ohio. Heater	569,473	Oct. 13	1288	303	77	259
Ringle, William H., Van Buren, Ohio. Combined wire fence and stretcher	569,058	Oct. 6	590	135	77	113
Rings, Matthew, assignor of one-half to C. E. Dyer, Seattle, Wash. Car-fender	574,044	Dec. 29	3530	843	77	2012
Ringstmeier, Fred, Malcolm, Nebr. Tire-heater	558,743	Apr. 21	2160	521	75	439
Rinsche, Frank C., St. Louis, Mo., assignor, by mesne assignments, to Chouteau Manufacturing Company, of Missouri. Engine	562,029	June 16	1715	417	75	1739
Rinsche, Frank C., St. Louis, Mo., assignor, by mesne assignments, to Chouteau Manufacturing Company, of Missouri. Engine	562,423	June 23	2376	579	75	1877
Rinsche, Frank C., St. Louis, Mo., assignor, by mesne assignments, to Chouteau Manufacturing Company, of Missouri. Engine	567,725	Sept. 15	1725	414	76	1630
Rinsche, Frank C., assignor to Chouteau Manufacturing Company, St. Louis, Mo. Engine	574,003	Dec. 29	3458	828	77	1999
Riordan, Charles. (See Still, William J., assignor.)						
Rioux, David, N. C. Bushey, and N. L. Byron, Springfield, Mass. Switch-operating device for street-railway cars	572,313	Dec. 1	406	96	77	1356
Ripley, Fredrick E. (See Pratt and Ripley.)						
Ripley, Lewis W., <i>et al.</i> (See Williams, Henry E., assignor.)						
Ripley, Richard, Liverpool, England. Apparatus for melting snow or ice	559,217	Apr. 28	3059	737	75	626
Ripson, John D., assignor of one-half to G. C. Whipple, Rochester, N. Y. Burial-casket	561,241	June 2	282	71	75	1422
Ris, Christopher, assignor to J. R. Geigy & Co., Basle, Switzerland. Brown diazo dye and making same	567,413	Sept. 8	1212		76	1518
Ris, Christopher, assignor to J. R. Geigy & Co., Basle, Switzerland. Black triazo dye	571,933	Nov. 24	2682		77	1200
Ris, Christopher, and C. Simon, assignors to J. R. Geigy & Co., Basle, Switzerland. Gray dye and making same	556,164	Mar. 10	1216		74	1374

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Rischmuller, George, San Francisco, Cal. Car-fender.....	558,112	Apr. 14	1050	265	75	221
Risdon Iron and Locomotive Works. (See Johnston, George, assignor.)						
Risdon Iron and Locomotive Works. (See Jones, Edwards P., assignor.)						
Rising, Walter W. (See McKenzie and Rising.)						
Risk, Thomas J. (See Hughes, Henry E., assignor.)						
Risley, Caleb M., assignor of one-half to C. E. von Stege, Woodbury, N. J. Planter.....	556,588	Mar. 17	2009	{ 469 470 201 202 }	74	1537
Risley, John H., and C. W. Pease, Rochester, N. Y. Assorting and grading machine.....	555,973	Mar. 10	844	{ 201 202 }	74	1308
Rist, Joel W., Chicopee Falls, Mass. Knitting-machine cam mechanism.....	566,019	Aug. 18	1973	478	76	1026
Ritchie, Frederic G., New York, N. Y. Instrument for use by oculists and opticians.....	562,424	June 23	2380	579	75	1878
Ritchie, John. (See Quintus, Ritchie, Quintus, Beebe, and Lukermann.)						
Rites, Francis M., Pittsburg, Pa. Fluid-compressor.....	568,796	Oct. 6	142	34	77	29
Rites, Francis M., Pittsburg, Pa. Fluid-compressor.....	570,770	Nov. 3	644	147	77	756
Rites, Francis M., Braddock, Pa. Valve-gear.....	572,721	Dec. 8	1120	{ 271 272 }	77	1511
Rites, Francis M., Ithaca, N. Y. Valve-gear.....	572,722	Dec. 8	1125	272	77	1512
Ritscher, Adam, Taylorville, Ill. Detachable link for drive-chains.....	556,643	Mar. 17	2090	489	74	1552
Ritscher, E. C. (See Farnsworth, Andrew C., assignor.)						
Rittenhouse, William, Clevel, Ohio, and I. L. Crippen, Indianapolis, Ind. Safety-brake for street-cars.....	558,312	Apr. 14	1416	348	75	286
Ritter, Emily R., Brooklyn, N. Y. Chair and crib.....	560,046	May 12	1284	289	75	939
Ritter, Frank, Rochester, N. Y. Dental chair.....	553,042	Jan. 14	1004	{ 245 246 }	74	202
Ritter, Frank, Rochester, N. Y. Knockdown table.....	561,612	June 9	966	237	75	1582
Ritter, Franklin S., Cheboygan, Mich. Grain proportioner and mixer.....	574,270	Dec. 29	3985	947	77	2094
Ritter, Hermann, Lima, Ohio. Rotary engine.....	560,368	May 19	1681	429	75	1097
Ritter, John L., Shenandoah, assignor to J. G. Whitlock and S. R. McAdams, administrator of G. B. McAdams, deceased, Richmond, Va. Egg-tester.....	563,804	July 14	968	230	76	198
Ritz, August N., Milwaukee, Wis. Receptacle for paste.....	572,617	Dec. 8	933	227	77	1475
Ritz, James G., Newberg, Oreg. Device for raising or lowering buggy-tops.....	564,393	July 21	2032	477	76	406
Rivard, Henry F. and W. St. Paul, Minn. Shears.....	556,644	Mar. 17	2091	489	74	1553
Rivard, William. (See Rivard, Henry F. and W.)						
Rively, John D., assignor of three-fourths to J. C. McKee and L. F. Wentz, Pittsburg, Pa. Bottle.....	567,199	Sept. 8	814	193	76	1448
Rivers, Sophia M., New York, N. Y. Lap-board.....	564,843	July 28	2798	666	76	562
Riverside Iron Works. (See Boyd, Peter, assignor.)						
Rives, William R., Wood, Ky. Bee-hiver.....	567,167	Sept. 8	772	181	76	1440
Riviere, Felix V., Zanesville, Ohio. Water-tube boiler.....	553,425	Jan. 21	1690	403	74	344
Riviere, Richard A., assignor of one-half to H. M. Whitaker, Tyler, Tex. Crate.....	557,706	Apr. 7	320	76	75	61
Rivret, Armand. (See Riche and Rivret.)						
Rixy, Johann. (See Wahl and Rixy.)						
Roach, James B., Waukegan, Fla. Fertilizer-distributor.....	566,472	Aug. 25	2789	678	76	1194
Roach, John M. (See Lynch, Vernon T., assignor.)						
Roach, Michael J., Anderson, Ind. Pulp-washing machine.....	556,867	Mar. 24	2481	{ 584 585 }	74	1643
Roach, Michael J., Anderson, Ind. Washing-machine for paper-stock.....	569,673	Oct. 20	1670	395	77	346
Roach, Robert C., assignor of two-thirds to F. L. Fonda, Hutchinson, and S. F. Sackett, Marion, Kans. Placer-mining apparatus.....	552,856	Jan. 7	661	162	74	125
Roake, John S., Brooklyn, N. Y. Grate.....	573,164	Dec. 15	1890	455	77	1676
Roark, John A., et al. (See Allen, Jot S., assignor.)						
Roat, Charles, assignor of one-half to J. Desserich, Denver, Colo. Beer-pipe-cleaning device.....	553,019	Jan. 14	970	235	74	196
Robbins, Don C. (See Ipson, George, assignor.)						
Robbins, Francis H., assignor to J. A. Niman and M. J. Robbins, Mansfield, Ohio. Spice-mill.....	554,376	Feb. 11	1027	238	74	711
Robbins, Frederick A., San Francisco, Cal. Multiple syringing-machine.....	574,075	Dec. 29	3585	856	77	2022
Robbins, George A., assignor, by mesne assignments, of one-half to F. B. Clark, Slate Hill, N. Y. Easel attachment.....	573,703	Dec. 22	2918	{ 689 690 }	77	1885
Robbins, Isaac, Grand Rapids, Mich. Sleigh-knee.....	567,047	Sept. 1	557	130	76	1387
Robbins, Isaac C., et al. (See Elliott, William R., assignor.)						
Robbins, John H. (See Hodges and Robbins.)						
Robbins, John S. (See Spalding and Robbins.)						
Robbins, Joseph H., Owosso, Mich. Extension-table.....	556,645	Mar. 17	2092	490	74	1553
Robbins, Mary J., et al. (See Robbins, Francis H., assignor.)						
Robbins, N. C., et al. (See Waugh and Older, assignors.)						
Robbins, Richard B., Adrian, Mich. Fence-post.....	557,286	Mar. 31	3230	775	74	1803
Rober, Albert F., Ilwaco, Wash. Vapor-engine.....	560,149	May 12	1475	333	75	975
Robertson, Rufus J., and C. F. Moore, Ransom, Ill.; said Moore assignor to said Roberson. Cotton-harvester.....	554,199	Feb. 4	717	{ 162 163 }	74	637
Roberts, Aden H., Bernice, assignor of one-half to C. M. Pratt, Towanda, Pa. Culum-loader.....	564,937	July 28	2969	707	76	594
Roberts-Brevoort Electric Company. (See Roberts, Isaiah L., assignor.)						
Roberts, Charles, Clearwater, and C. H. Hollister, Downey, Cal. Pipe-cutter.....	565,569	Aug. 11	1145	276	76	847
Roberts, Charles B. (See Washington and Roberts.)						
Roberts, Charles E., Oak Park, Ill. Screw-machine.....	552,548	Jan. 7	76	21	74	17
Roberts, Charles E., Oak Park, Ill. Machine for cutting screws.....	552,969	Jan. 14	895	{ 217 218 }	74	181
Roberts, Charles E., Oak Park, Ill. Device for boring hubs.....	567,795	Sept. 15	1839	441	76	1652
Roberts, Charles E., Oak Park, Ill. Machine for finishing spoke-nipples for bicycles.....	572,376	Dec. 1	532	{ 124 125 126 }	77	1379
Roberts, Charles E., Oak Park, assignor to National Cutlery Company, Rockford, Ill. Knife-milling machine.....	554,796	Feb. 18	1750	{ 411 412 }	74	864
Roberts, Charles E., Oak Park, assignor to National Cutlery Company, Rockford, Ill. Machine for grinding handles for table-knives.....	554,797	Feb. 18	1752	412	74	865
Roberts, Charles E., Oak Park, assignor to National Cutlery Company, Rockford, Ill. Machine for milling table-knives.....	555,125	Feb. 25	2362	562	74	994
Roberts, Charles H., Evansville, Ind., assignor to Murray Iron Works Company, Burlington, Iowa. Band-saw mill.....	567,282	Sept. 8	972	{ 230 231 }	76	1475
Roberts, Charles W., North Bennington, assignor to Roberts Grinder Company, Bennington, Vt. Apparatus for pulping.....	571,019	Nov. 10	1079	{ 251 252 }	77	867
Roberts, Clarence V., Philadelphia, Pa. Ventilating air-heater.....	574,271	Dec. 29	3987	947	77	2094
Roberts, Cyrus. (See Copeland, Roberts, and McCrary.)						
Roberts, Dugald H. (See Newman and Roberts.)						
Roberts, Elijah J., Boone, Iowa. Extension-table.....	569,059	Oct. 6	591	135	77	113

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Roberts, Fabian J., Detroit, Mich. Journal-box guard	552,549	Jan. 7	78	22	74	18
Roberts, Francis F., Denver, Colo. Foot-guard for frogs or the like	568,096	Aug. 18	2095	511	76	1048
Roberts, Frank C., Philadelphia, Pa. Hot-blast stove	570,104	Oct. 27	2437	579	77	501
Roberts, Frederick A., Gardner, Mass. Adjustable support	573,923	Dec. 29	3295	788	77	1970
Roberts, George W. (See Rowley, Frank, assignor.)						
Roberts Grinder Company. (See Roberts, Charles W., assignor.)						
Roberts, Henry F., Boston, Mass. Holder for disinfectants	555,888	Mar. 3	681	164	74	1256
Roberts, Isaiah L., Brooklyn, N. Y., assignor to Roberts-Brevort Electric Company, Limited, of New York. Pencil for arc-lamps	562,030	June 16	1718	417	75	1740
Roberts, Jacob, Catsauqua, Pa. Steam-generator	553,689	Jan. 28	2149	508	74	444
Roberts, James A., Chicago, Ill. Temporary binder	564,650	July 28	2475	584	76	505
Roberts, James R., and E. F. Curry, Keokuk, Iowa. Skate-sharpener	555,974	Mar. 10	845	202	74	1308
Roberts, John A., et al. (See Markley, John A., assignor.)						
Roberts, John A., and W. E. C. Vermillion, Burleson, Tex. Churn	567,726	Sept. 15	1731	414	76	1632
Roberts, John D. (See Long, Henry L., assignor.)						
Roberts, John I., and J. B. McCormick, Granville, N. Y. Boiler-scraper	569,060	Oct. 6	592	135	77	114
Roberts, Joseph M., Bethlehem, assignor of one-half to J. C. Belton, Meadville, Pa. Toy base-ball game	554,733	Feb. 18	1645	388 389	74	844
Roberts, Joseph T., J. and J. Cummins, Rose Hill, Ill. Car-coupling	553,426	Jan. 21	1691	403	74	344
Roberts, Lyman R., Detroit, Mich. Axle-lubricator	567,168	Sept. 8	773	181	76	1440
Roberts, Milton O., Collegeville, Pa. Joint for sectional steam-boilers	553,870	Feb. 4	100	21	74	523
Roberts, Richard A., Brooklyn, N. Y. Construction of vessels	573,297	Dec. 15	2142	514	77	1722
Roberts, Samuel H., Joliet, Ill. Machine for making nets	565,232	Aug. 4	557	130 131	76	718
Roberts, Thomas, Baltimore, Md. Reducing and refining copper	568,700	Sept. 29	3420	832	76	1987
Roberts, Thomas B., Kansas City, Kans. Refrigerator-car	556,374	Mar. 17	1629	381 382	74	1466
Roberts, Thomas H., Detroit, Mich. Air-compressor	572,314	Dec. 1	407	97	77	1356
Roberts, William, Brant, assignor, by mesne assignments, to Sprague Manufacturing Company, Farnham, N. Y. Machine for cutting green corn from cobs	561,523	June 2	834	201	75	1527
Roberts, William B., Chicago, Ill. Hollow metal wheel	552,719	Jan. 7	384	101	74	74
Roberts, William F., et al. (See Munson, John H., assignor.)						
Roberts, William H. (See Larzelere, Charles F., assignor.)						
Roberts, William J., assignor of three-fourths to E. A. Baxter, J. R. Kincaid, and G. W. Webber, Pawnee, Ill. Train-time annunciator	557,609	Apr. 7	138	36	75	27
Roberts, William M., Jr., Cumberland, Md. Track-cleaner or current-collector	570,339	Oct. 27	2901	689	77	586
Roberts, Woodbury D., Portland, Oreg. Lock	568,701	Sept. 29	3482	833	76	1987
Robertson, Burton S., assignor of three-fourths to H. S. Lord, A. H. Melin, and J. C. Lalor, Anaconda, Mont. Seal-lock	564,105	July 14	1537	361	76	302
Robertson, Duncan M., Kearney, assignor to C. H. McIntire, Newark, N. J. Wire-connector	561,438	June 2	675	165	75	1497
Robertson, Franklin C. (See Morrow and Robertson.)						
Robertson, James. (See Tidd, Marshall, assignor.)						
Robertson, James, Manchester, England. Hydraulic pressing apparatus	560,934	May 26	2936	674	75	1310
Robertson, James, Manchester, England. Hydraulic pressing apparatus	560,935	May 26	2937	674	75	1310
Robertson, James, and H. Cooper, London, England. Machine for filling into receptacles measured quantities of liquids, &c	559,540	May 5	328	78	75	746
Robertson, James C., Glenglade, assignor of one-third to T. Price, Vintondale, Pa. Sled-propeller	572,568	Dec. 8	844	202 203 205 226	77	1458
Robertson, James D., Norwich, Conn. Envelop-machine	556,026	Mar. 10	947	225	74	1326
Robertson, John A., et al. (See Wolf, Joseph, assignor.)						
Robertson, John A., Rochester, N. Y. Photographic shutter	574,113	Dec. 29	3653	872	77	2035
Robertson, John H., et al. (See Jonson, Julius, assignor.)						
Robertson, Louis A., et al. (See Wenzel, Rudolph G., assignor.)						
Robertson, Thomas, Minneapolis, Minn. Window-lock	570,503	Nov. 3	122	30	77	661
Robertson, Thomas J., Golden, Mo. Street-sweeper	554,732	Feb. 18	1642	388	74	844
Robertson, Thomas J., Golden, Mo. Street-sweeper	568,958	Oct. 6	416	93	77	79
Robertson, William, Charleston, Ill. Bow-stitch cutter	557,887	Apr. 7	634	151	75	119
Robertson, William T., Washington, D. C. Toe-clip	559,952	May 12	1104	246	75	902
Robie, John E., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Dental vulcanizer	560,327	May 19	1812	412	75	1085
Robin, Joseph T., New York, N. Y. Show-case	561,613	June 8	988	237	75	1582
Robins, Thomas, Jr., New York, N. Y. Conveyor-belt apparatus	571,604	Nov. 17	2079	499	77	1066
Robinson, A. (See Choate, Charles F., assignor.)						
Robinson, Alexander. (See Booth, Thomas B., assignor.)						
Robinson, Alfred B., et al. (See Benuum, George W., assignor.)						
Robinson, Amy J., Birmingham, England. Bed-support	559,218	Apr. 28	3060	738 739	75	626
Robinson, Andrew J., Boston, Mass. Bottle-stopper	565,233	Aug. 4	560	131	76	718
Robinson, Andrew J., Boston, Mass. Stopper attachment for bottles	572,772	Dec. 8	1212	293	77	1528
Robinson, Andrew J., Boston, Mass., and J. C. Doran, Pawtucket, R. I., said Doran assignor to said Robinson. Stopper attachment for bottles	565,392	Aug. 4	800	190	76	765
Robinson, Arthur W., Milwaukee, Wis. Hydraulic dredging apparatus	566,473	Aug. 25	2791	678 679	76	1195
Robinson, Charles H., Huntsville, Tex. Crank-pin-box connection	560,650	May 26	2437	555	75	1212
Robinson, Charles W., Florence, Ala. Antifriction-bearing	570,504	Nov. 3	124	30	77	661
Robinson & Co., J. T. (See Robinson and Smith, assignors.)						
Robinson & Company. (See Robinson, Francis W., assignor.)						
Robinson, Edgar, assignor of two-thirds to A. C. Brown, Cincinnati, Ohio, and L. M. Berry, Newport, Ky. Fire-extinguisher	555,022	Feb. 18	2162	515	74	940
Robinson, Edwin, Zanesville, Ohio. Dipping apparatus for paste glass-molds	570,735	Nov. 3	588	135	77	746
Robinson, Eugene M., Chicago, Ill. Lifting jack	555,255	Feb. 25	2601	610 611	74	1038
Robinson, Francis W., assignor to Robinson & Company, Richmond, Ind. Straw-stacking attachment	558,843	Apr. 21	2324	566	75	470
Robinson, Francis W., assignor to Robinson & Company, Richmond, Ind. Feeder for threshing-machines	558,844	Apr. 21	2326	566	75	470
Robinson, Frank, Bangor, Me., assignor of one-half to A. O. Norton, Boston, Mass. Track-jack	558,881	Apr. 21	2396	584	75	484
Robinson, Frank M., Pawling, N. Y. Fish-hook	556,694	Mar. 17	2166	506	74	1567
Robinson, George H., executor. (See Ericsson, John.)						
Robinson, George H., New York, N. Y., and E. F. Steck, Chicago, Ill., assignors to Fire Extinguisher Manufacturing Company, Chicago, Ill., and New York, N. Y. Automatic fire-extinguishing system	571,578	Nov. 17	2032	484 485	77	1058

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Robinson, George W. (See Robinson, William H., assignor.)						
Robinson, Harry S., Meadville, Pa. Bicycle-trainer	562,198	June 16	2008	486	75	1793
Robinson, Henry S., <i>et al.</i> (See Sleeper, George W., assignor.)						
Robinson, Herry, Springfield, Mass. Canister	569,061	Oct. 6	593	136	77	114
Robinson, Howard B., Hartford, Conn. Automatically-opening die for cutting screw-threads	569,769	Oct. 20	1862	441	77	378
Robinson, Hugh, Exeter, Nehr. Fence-wire stretcher	532,779	Jan. 7	518	126	74	97
Robinson, James, Hunslet, England. Valve	533,939	Feb. 4	253	55	74	552
Robinson, Joe. (See Whalley, Clegg, Benson, Farratt, and Robinson.)						
Robinson, John M., Philadelphia, Pa. Filter	554,312	Feb. 11	924	212	74	691
Robinson, John M., Bozeman, Mont. Cultivator	573,704	Dec. 22	2919	690	77	1225
Robinson, John S. (See Robinson, Walter A., assignor.)						
Robinson, John T., Hyde Park, and D. M. Smith, Boston, assignors to J. T. Robinson & Co., Hyde Park, Mass. Paper-grooving machine	573,705	Dec. 22	2921	691	77	1226
Robinson, Joshua, Lawrence, Mass. Utilizing partially-worn fibrous harness	570,683	Nov. 3	493	115	77	730
Robinson, Leora B. (See Lee, Ole E., assignor.)						
Robinson, Leslie S., London, England. Pedal apparatus for controlling recording and reproducing apparatus of phonographs	562,664	June 23	2790	677	75	1955
Robinson, Michael F., assignor of two-thirds to P. M. Culliny, New York, N. Y. Window-fastener	565,300	Aug. 4	652	155	76	736
Robinson, Michael F., assignor of two-thirds to P. M. Culliny, New York, N. Y. Sash-lock and operator	567,255	Sept. 8	911	218	76	1461
Robinson, Moses W., R. Frick, and F. H. Shields, Des Moines county, assignors of one-fourth to C. M. and G. W. Snyder, Henry county, Iowa. Machine for excavating, conveying, and loading or unloading earth, &c., upon or from railway-cars	555,889	Mar. 3	681	{ 164 165 166 }	74	1256
Robinson Radial Car Truck Company. (See Robinson, William, assignor.)						
Robinson, Squire. (See Butler, John A., assignor.)						
Robinson, Stanley R. V., Brooklyn, N. Y. Voltaic battery	554,427	Feb. 11	1121	262	74	729
Robinson, Stillman W., Columbus, Ohio, assignor to Wire Grip Fastening Company, Chicago, Ill. Machine for inserting screw-threaded wire	554,200	Feb. 4	720	{ 163 164 165 }	74	637
Robinson, Theodore W., Milwaukee, Wis. Conveyor for ore, &c	560,232	May 19	1637	{ 372 373 }	75	1055
Robinson, Thomas C., Boston, assignor of one-half to A. E. Denison and E. B. Welch, Cambridge, Mass. Electrical hammering-machine	566,537	Aug. 25	2884	702	76	1213
Robinson, Walstein E., Bellport, N. Y. Game-board	560,233	May 19	1642	374	75	1056
Robinson, Walter A., Syracuse, assignor of one-half to J. S. Robinson, Skaneateles, N. Y. Composition for architectural purposes	565,507	Aug. 11	1045		76	829
Robinson, William, Boston, Mass. Car-brake	553,871	Feb. 4	101	21	74	524
Robinson, William, Boston, Mass. Magnetic traction apparatus for motor-cars	566,800	Sept. 1	107	26, 27	76	1300
Robinson, William, Boston, Mass. Electric-railway system	566,801	Sept. 1	110	27	76	1301
Robinson, William, Boston, Mass. Power-brake	572,662	Dec. 8	1007	243	77	1490
Robinson, William, Boston, Mass. Car-motor	572,665	Dec. 8	1047	254	77	1493
Robinson, William, Boston, Mass. Car-truck	572,666	Dec. 8	1050	255	77	1493
Robinson, William, Boston, Mass., assignor to Robinson Radial Car Truck Company, Portland, Me. Radial car-truck	554,956	Feb. 18	2032	{ 481 482 }	74	918
Robinson, William, assignor of one-half to J. E. Greenawalt, Denver, Colo. Amalgamator	558,460	Apr. 14	1679	404	75	334
Robinson, William, assignor to D. Mayer, London, England. Stringed musical instrument	561,915	June 9	1516	367	75	1681
Robinson, William H., Washington, D. C., assignor to G. W. Robinson, Williamsport, Md. Base-ball-game apparatus	561,916	June 9	1518	368	75	1681
Robinson, William M., Dilliner, assignor of one-third to J. E. Minor, Mapletown, Pa. Car-coupling	554,201	Feb. 4	725	{ 164 165 }	74	638
Robinson, Willis E., assignor to himself and F. A. Bush, Faribault, Minn. Shade for electric lights	557,888	Apr. 7	635	152	75	120
Robischung, Henry B., Kalamazoo, Mich. Fulcrum-post for brake-beams	558,521	Apr. 21	17-6	434	75	371
Robischung, Henry B., Kalamazoo, Mich. Brake-beam	570,057	Oct. 27	2342	556	77	482
Robischung, Henry B., Kalamazoo, Mich., assignor to Chicago Railway Equipment Company, Chicago, Ill. Bracket for third suspension-hangers	560,430	May 19	1997	456	75	1119
Robischung, Henry B., Kalamazoo, Mich., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-shoe	561,815	June 9	1351	322	75	1649
Robischung, Henry B., Kalamazoo, Mich., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam	568,044	Sept. 22	2295	556	76	1750
Robison, Alasco C. (See Robison, Frank L., assignor.)						
Robison, Frank L., Albion, assignor of one-half to A. C. Robison, Canandaigua, N. Y. Baling-press	553,509	Jan. 28	1998	473	74	417
Robison, Joseph, Greenbush, N. Y. Gas or oil engine	565,033	Aug. 4	126	30	76	641
Robson, Robert S. (See Grady and Robson.)						
Roche, E. Melvern. (See Swenson, Sven E., assignor.)						
Roche, John A., Chicago, Ill. Electric railway	574,171	Dec. 29	3779	902	77	2057
Roche, James, assignor to Eagle Lock Company, Terryville, Conn. Permutation-lock	555,336	Feb. 25	2730	640	74	1063
Roche, James, assignor to Eagle Lock Company, Terryville, Conn. Padlock	555,337	Feb. 25	2733	640	74	1064
Roche, Thomas C., Brooklyn, assignor to E. & H. T. Anthony & Company, New York, N. Y. Photographic color-screen	561,132	June 2	96	27	75	1285
Rochemovitz, Henry, New York, N. Y. Automatic shut-off valve for engines	556,939	Mar. 24	2594	610	74	1664
Rochester Bicycle Combination Holder Company. (See Phillips, Harry C., assignor.)						
Rochester Cash Register Company. (See Clark, William H., assignor.)						
Rochester Machine Screw Company. (See Brown, Jesse H., assignor.)						
Rochester Machine Tool Works. (See Buckley, John, assignor.)						
Rocholl, Valentine C., Fort Wayne, Ind. Lawn-sprinkler	554,628	Feb. 11	1478	346	74	795
Rock, Charles M., <i>et al.</i> (See Ogborn, Harrison, assignor.)						
Rock, Charles S. C., New York, N. Y. Automatic coal-delivery	553,075	Jan. 14	1074	261	74	215
Rock, Frank, Jr., School Hill, Wis. Washing-machine	559,811	May 12	824	193	75	852
Rockfellow, William H., Baker City, Oreg. Concentrator	563,805	July 14	971	231	76	198
Rockford Sugar Refining Company. (See O'Neill, John G., assignor.)						
Rockwell, Albert F., assignor to New Departure Bell Company, Bristol, Conn. Bicycle-bell	557,287	Mar. 31	3232	775	74	1804
Rockwell, Albert F., assignor to New Departure Bell Company, Bristol, Conn. Cyclometer	565,034	Aug. 4	127	31	76	642
Rockwell, Byrd C., assignor to L. B. Rockwell, Goshen, Ind. Sickle-grinder	558,522	Apr. 21	17-8	434	75	372
Rockwell, Edward D., Bristol, Conn. Bicycle-bell	553,293	Jan. 21	1474	354	74	304
Rockwell, Edward D., Bristol, Conn. Electric-lamp holder for bicycles	554,459	Feb. 11	1181	275	74	739
Rockwell, Edward D., Bristol, Conn. Bicycle-bell clamp	572,450	Dec. 1	644	151	77	1401
Rockwell, Eli B., Alburg, Vt. Machine for holding, lighting, and keeping in position mariners' compasses	565,636	Aug. 11	1259	304	76	869

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Rockwell, Frederick C. (See Lester, Howard W., assignor.)						
Rockwell, Frederick C. (See Smith, Fred S., assignor.)						
Rockwell, Frederick C., Hartford, Conn. Handle.....	570,186	Oct. 27	2581	613	77	528
Rockwell, Frederick C., Hartford, Conn. Bicycle handle-bar.....	570,187	Oct. 27	2583	613	77	528
Rockwell, Frederick C., Hartford, Conn. Bottle-stopper.....	573,239	Dec. 15	2028	486	77	1701
Rockwell, Frederick C., Hartford, Conn. Handle.....	573,796	Dec. 22	3058	724	77	1912
Rockwell, Frederick C., Hartford, Conn. Tenpins.....	573,797	Dec. 22	3059	724	77	1912
Rockwell, George, Bainbridge, N. Y. Swing.....	572,773	Dec. 8	1214	294	77	1528
Rockwell, Henry H., Milwaukee, Wis. Gang boring-machine.....	560,234	May 19	1643	374	75	1056
Rockwell, Henry H., Milwaukee, Wis. Machine for making dowel-pins.....	569,234	Oct. 13	896	214 215	77	187
Rockwell, Henry H., Milwaukee, Wis. Dowel pin and joint.....	569,235	Oct. 13	899	215	77	188
Rockwell, Henry H., C. F. Gerlach, and E. Gebel, Milwaukee, Wis., assignors to Rockwell Manufacturing Company, of Wisconsin. Cut-off and pointing machine.....	565,090	Aug. 4	239	58, 59	76	660
Rockwell, Herbert O., assignor of two-thirds to W. Hand and G. D. Rosenthal, St. Louis, Mo. Electric heater.....	566,341	Aug. 25	2502	614	76	1141
Rockwell, Louis B. (See Rockwell, Byrd C., assignor.)						
Rockwell Manufacturing Company. (See Rockwell, Gerlach, and Gebel, assignors.)						
Rodd, William J., St. Leonards, assignor to W. G. Henderson, Sydney, New South Wales. Billiard-table cushion.....	569,519	Oct. 13	1383	326	77	277
Rodeck, Paul T. A., Union, N. J. Music-box.....	559,608	May 5	440	104	75	768
Rodeck, Paul T. A., West Hoboken, N. J. Music-box.....	560,936	May 26	2938	675	75	1310
Rodehafer, Chester W., Sidney, Ohio. Revolving swing.....	555,338	Feb. 25	2735	641	74	1064
Rödelsperger, Herman, Manchester, N. H. Arithmetical apparatus.....	560,651	May 26	2429	553	75	1212
Roden, Ernest K., New York, assignor to W. A. Nilson, Brooklyn, N. Y. Insertible chain-link.....	567,511	Sept. 8	1366	328	76	1546
Rodes, Tyree, Nashville, Tenn. Hinge.....	569,474	Oct. 13	1291	304	77	260
Rodgers, A. J. (See Gillette, Harleigh, assignor.)						
Rodgers, James, Allegheny, Pa. Slide-valve.....	561,031	May 26	3083	711	75	1337
Rodgers, James T., and W. L. Crowson, assignors of one-half to E. W. Smith and K. Allen, Memphis, Tenn. Car-fender.....	552,927	Jan. 14	823	200	74	168
Rodgers, William L. (See Bonar and Rodgers.)						
Rodick, Serenus H., Bar Harbor, Me. Car-fender.....	553,020	Jan. 14	973	235	74	196
Rodick, Serenus H., Bar Harbor, Me. Tape-line hook.....	558,113	Apr. 14	1081	265	75	222
Rodigrass, George W., Haverhill, Mass. Sole-molding apparatus.....	569,979	Oct. 20	1210	525	77	443
Rodriguez, Alfred M., Brooklyn, N. Y. Electric lamp for velocipedes, &c.....	568,209	Sept. 22	2595	625	76	1806
Rodwell, George J. B., Buffalo, and L. Gargare, New York, N. Y.; said Gargare assignor to said Rodwell. Sign-letter.....	563,312	July 7	136	32	76	29
Roe, Isaac F., et al. (See Wilson, Francis W., assignor.)						
Roe, John M., Austin, Ill., assignor to Jogada Furnace Company, of Oregon. Mechanical stoker.....	566,871	Sept. 1	226	52, 53	76	1325
Roebing, Karl G., Jr., Trenton, N. J. Sheave attachment for oil-well apparatus.....	555,126	Feb. 25	2365	562	74	995
Roehl, Charles E. (See Wetmore and Roehl.)						
Roeloffs, John T. R., New York, N. Y. Retractor.....	569,839	Oct. 20	1974	469	77	400
Roemer, William, Newark, N. J. Case or satchel.....	562,555	June 23	2599	631	75	1917
Roescher, Isidor, Memphis, Tenn. Advertising device.....	559,609	May 5	442	104	75	769
Roescher, Isidor, New York, N. Y. Eye and tongue support for artificial heads and masks.....	569,475	Oct. 13	1292	304	77	260
Roeske, Henry, Philadelphia, assignor of one-half to R. Wetherill & Co., Chester, Pa. Filtering apparatus.....	553,763	Jan. 28	2278	539	74	469
Roger, John, Denver, Colo. Ore-crusher.....	554,377	Feb. 11	1029	238 239	74	711
Roger, John, Denver, Colo. Ore-roasting furnace.....	574,272	Dec. 29	3989	947 948	77	2094
Roger, John, Denver, Colo. Ore-crusher.....	574,273	Dec. 29	3990	948	77	2095
Rogers, Albert C., Plainfield, N. J. Fire-alarm system.....	573,924	Dec. 29	3296	788 789	77	1970
Rogers, Charles B., Stevenson, Md. Thermostat.....	562,917	June 30	3258	786	75	2063
Rogers, Charles D., Providence, R. I. Cutting-off die for machines for making screw-blanks.....	563,885	July 14	1136	266	76	228
Rogers, Charles D., assignor to American Screw Company, Providence, R. I. Die for making screw-nails.....	553,262	Jan. 21	1407	342 343	74	293
Rogers, Elbert S., Knoxville, Tenn. Fire-place furnace and ventilator.....	557,231	Mar. 31	3119	748	74	17-3
Rogers, Ernest E., New London, Conn. Book-lock.....	555,829	Mar. 3	566	137	74	1233
Rogers, Ethan, Ballston, N. Y. Making tool-blanks.....	566,937	Sept. 1	347	81	76	1349
Rogers, Frederick H. (See Gildersleeve and Rogers.)						
Rogers, George H., Birmingham, Ala. Check-blank.....	561,179	June 2	193	48	75	1403
Rogers, George H., Birmingham, Ala. Check-punch.....	562,852	June 30	3143	761	75	2039
Rogers, Harley C., assignor to Carpenter & Dyett, Rome, and Foster Brothers Manufacturing Company, Utica, N. Y. Folding cot.....	552,586	Jan. 7	142	39	74	28
Rogers, Henry M., et al. (See Gordon, John H., assignor.)						
Rogers, J. S. (See West, Thomas, assignor.)						
Rogers, John, Taunton, Mass. Insulating handle connection.....	565,393	Aug. 4	801	190	76	765
Rogers, John B., Zillah, Wash., assignor to C. C. M. Loeffler, trustee, Washington, D. C. Annunciator.....	564,314	July 21	1895	418	76	380
Rogers, John C., Cuero, Tex. Tanning hides.....	564,106	July 14	1539		76	302
Rogers, John F., Belfast, Me. Vamp-marking machine.....	560,865	May 26	2810	645 748 749 750 751	75	1286
Rogers, John R., Cleveland, Ohio, assignor, by mesne assignments, to Mergenthaler Linotype Company, of New Jersey. Typograph.....	557,232	Mar. 31	3121	748 749 750 751	74	1784
Rogers, Joseph W., Bodines, Pa. Horseshoe.....	560,235	May 19	1646	375	75	1057
Rogers, Joseph X. (See Hankey, Anthony, assignor.)						
Rogers, Samuel C., Buffalo, N. Y. Saw-sharpening machine.....	564,394	July 21	2033	477	76	406
Rogers, Thomas J., Jacksonville, Ill. Trolley for kites.....	563,066	June 30	3525	846 847	75	2117
Rogers, Thomas J., and J. F. Warren; said Warren assignor to C. K. MacFadden, Chicago, Ill. Indicator for air-brake pumps.....	553,294	Jan. 21	1473	354	74	304
Rogers, Timothy, assignor to F. J. McCormick, Sr., Dayton, Ohio. Windmill.....	557,889	Apr. 7	636	152	75	120
Rogers, Wilbur S. (See Warner, Hays, and Rogers.)						
Rogers, William H. (See Upham, Andrew J., assignor.)						
Rogers, William J., Quanah, Tex. Fountain-pen.....	566,938	Sept. 1	348	81	76	1349
Rogers, Willis G., et al. (See Cochrane, Philip W., assignor.)						
Rogginger, John, Chicago, Ill. Speed-indicator.....	553,724	Jan. 28	2215	525	74	457
Rogginger, John, assignor to L. Schlesinger, Chicago, Ill. Cyclometer.....	554,460	Feb. 11	1183	276	74	740
Rohleder, Jacob, Barmen, Germany. Water-cooler.....	553,318	Jan. 21	1513	363	74	311

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Rohne, Philip, New York, N. Y. Clamp for lines.....	554,006	Feb. 4	370	81	74	573
Rohr, Henry. (See Rohr, John N. and H.)						
Rohr, John N. and H., Kenton, Ohio. Hat-rack.....	567,169	Sept. 8	773	181	76	1440
Rohr, John N. and H., Kenton, Ohio. Revolving-chair swing.....	570,505	Nov. 3	125	30, 31	77	661
Rohrbach, Charles, Chester, Pa. Nut-lock.....	559,464	May 5	200	44	75	720
Rohrbach, L. T., <i>et al.</i> (See Williamson, Daniel, assignor.)						
Rohrbach, Peter, Brooklyn, N. Y. Gas-burner.....	558,845	Apr. 21	2328	566	75	471
Rohrdantz, Henry, Buffalo, N. Y. Electric burglar-alarm.....	562,325	June 16	2214	539	75	1831
Rolfe, Charles A., Chicago, Ill. Electric-alarm system.....	558,564	Apr. 21	1846	449	75	323
Rolfe, Charles J. (See Goodridge, James F., assignor.)						
Rolfson, Rolf J., assignor of one-half to S. S. Simrak and A. R. Herman, San Francisco, Cal. Gas-engine.....	570,649	Nov. 3	426	101	77	717
Rolison, John R., Howell, Mich. Spring-bed.....	557,890	Apr. 7	638	153	75	120
Roll, Adam R. (See Roll, Edward C. and A. R.)						
Roll, Edward C., Cincinnati, and A. R. Roll, Lockland, Ohio. Reel-seat.....	553,725	Jan. 28	2218	525	74	457
Rolland, Camille. (See Rolland, Nestor and C.)						
Rolland, Nestor and C., Brussels, Belgium. Merry-go-round.....	558,114	Apr. 14	1082	265	75	222
Rollandet, Gerrit J., and W. B. Gray, assignors of one-half to F. S. Lack and W. E. Stone, Denver, Colo. Nozzle-holder and spraying attachment for garden-hose.....	553,940	Feb. 4	254	55	74	552
Roller-Bearing Truck Company. (See Lawson, Benjamin S., assignor.)						
Roller, Frank J., Niles, Ohio. Arithmetical card.....	565,797	Aug. 11	1549	377	76	924
Rollins, William H., Boston, Mass. Mechanical musical instrument.....	563,415	July 7	301	69	76	60
Romans, Freeland H. and W. A., and S. W. Harman, Bentonville, Ark. Match-safe.....	557,233	Mar. 31	3132	751	74	1785
Romans, William A. (See Romans and Harman.)						
Romenesko, Joseph G., Rochester, Minn. Wagon-seat lock.....	565,035	Aug. 4	130	31	76	642
Roney, Alexander B., assignor to P. Oppen, Chicago, Ill. Electric car-brake.....	566,939	Sept. 1	349	82	76	1349
Roney, Charles. (See Lukens, Gabriel L., assignor.)						
Roney, Charles, Bethany, Ill. Ladder.....	562,665	June 23	2792	678	75	1955
Roney, John. (See Murdock, Thomas J., assignor.) (Reissue.)						
Roney, John, Boston, assignor to J. G. Morrison, Cambridge, Mass. Fire-door opening for water fire-boxes.....	553,076	Jan. 14	1075	261	74	215
Roney, William R., Boston, Mass. Multitubular water-heater.....	565,394	Aug. 4	802	191	76	765
Roney, William R., Boston, Mass., and C. W. Townsend, Pittsburg, Pa., assignors to Westinghouse, Church, Kerr & Company, Orange, N. J. Dumping-grate.....	557,891	Apr. 7	639	153	75	120
Roney, William R., Chicago, Ill., assignor to Westinghouse, Church, Kerr & Company, New York, N. Y. Furnace-grate.....	569,353	Oct. 13	1103	261	77	227
Rongier, Hippolyte, Gartsherrie, Scotland, assignor to Patent Weldless Steel Chain and Cable Company, Limited, Birmingham, England. Machine for manufacturing weldless chains.....	555,737	Mar. 3	429	100	74	1206
Rönnitz, Ferdinand J., Muehlen, Germany. Means for making artificial stone.....	574,172	Dec. 29	3783	902	77	2058
Rontke, Albert. (See Bolton and Rontke.)						
Rontke, Albert, Chicago, Ill., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine.....	568,702	Sept. 29	3484	833	76	1988
Rontke, Albert, Chicago, Ill., assignor to Singer Manufacturing Company, of New Jersey. Double-chain-stitch sewing-machine.....	573,926	Dec. 29	3304	789	77	1972
Rood, Alfred E., Chicago, Ill., assignor to E. C. Cooke, Washington, D. C. Spoon attachment.....	552,780	Jan. 7	519	126	74	97
Rood, Harriet W., New York, N. Y. Bicycle-habit.....	553,690	Jan. 28	2150	509	74	444
Roof, William S., Franklin, Ohio. Hanger for folding doors.....	569,937	Oct. 20	2145	508	77	432
Rook, William H., Jr., assignor to Taplin Rice & Company, Akron, Ohio. Ball-bearing step.....	563,720	July 7	817	195	76	152
Rooke, George, Emporia, Kans. Filter.....	556,438	Mar. 17	1752	407	74	1490
Rooker, John S., Martinsville, Ind. Bee-feeder.....	562,853	June 30	3145	761	75	2040
Rooks, Alva N., assignor of one-half to E. D. Cramer, Inka, Ill. Steam-cooker.....	558,846	Apr. 21	2329	567	75	471
Roome, Henry C., <i>et al.</i> (See Baker, James D., assignor.)						
Roome, William G., <i>et al.</i> (See Baker, James D., assignor.)						
Roome, William G., Jersey City, N. J. Railway-signal.....	558,565	Apr. 21	1849	450	75	383
Roome, William G., Jersey City, N. J. Railway-signal.....	558,566	Apr. 21	1857	451	75	384
Roome, William G., Jersey City, N. J. Railway-gate.....	567,657	Sept. 15	1618	390	76	1610
Rooney, Patrick B., New York, N. Y. Bed.....	563,210	June 30	3796	910	75	2168
Roop, Amos, F. L. Brandon, and J. S. Hart, Hicksville, Ohio. Baling-press.....	561,133	June 2	97	27	75	1385
Roosevelt, James A., assignor to Franklin Steel Casting Company, Franklin, Pa. Car-coupling.....	554,538	Feb. 11	1301	306	74	762
Roosevelt, James A., assignor to Franklin Steel Casting Company, Franklin, Pa. Draft-rigging for railway-cars.....	555,023	Feb. 18	2163	515	74	940
Root, Benjamin M., York, Pa. Machine for mixing or blending flours.....	557,892	Apr. 7	641	153	75	121
Root, Denise F. (See Brinckerhoff and Farquharson, assignors.)						
Root, Denise F. (See Farquharson, Henry C., assignor.)						
Root, Dexter A., Bay City, Mich. Permutation-padlock.....	561,524	June 2	836	201	75	1527
Root, George I., assignor of one-half to J. Kerr, Ottawa, Canada. Car-brake.....	555,890	Mar. 3	688	166	74	1257
Root, George R., Indianapolis, Ind. Sash-fastener.....	553,627	Jan. 28	2040	483	74	425
Root, George W., Hartford, Conn. Fire-escape.....	556,165	Mar. 10	1217	284	74	1374
Root, Howard C., Brooklyn, N. Y., assignor of one-half to L. H. Ayres, Philadelphia, Pa. Automatic toll-box for telephone pay-stations.....	553,361	Jan. 21	1588	379	74	325
Root, Nevada L., C. L. Reed, and D. C. Hale, Longmont, Colo. Electrolier.....	565,092	Aug. 4	242	59	76	661
Root, Roswell L. (See Pelham, Abram, assignor.)						
Roovers, Alexander H. (See Roovers, Alfred W. and A. H.)						
Roovers, Alfred W. and A. H., Brooklyn, N. Y. Vending instrument.....	553,872	Feb. 4	102	22	74	524
Roper, Charles F., Hopedale, Mass. Horseshoe.....	566,020	Aug. 18	1974	479	76	1026
Rosback, Fredrick P., Chicago, Ill. Railway-alarm.....	570,058	Oct. 27	2344	556	77	482
Rösch, Jacob E., St. Louis, Mo. Photographic vignetter.....	569,977	June 30	3366	814	75	2091
Rose, Allen W., New York, N. Y. Telephone-transmitter.....	558,313	Apr. 14	1417	348	75	286
Rose, Garrett F., New York, N. Y. Device for closing moth-bags.....	564,224	July 21	1743	408	76	353
Rose, Henry W., Manchester, N. H. Hat-holder.....	566,021	Aug. 18	1975	479	76	1026
Rose, Henry W., Manchester, N. H. Expandible mandrel.....	567,658	Sept. 15	1621	390	76	1610
Rose, Jacob A., assignor of one-half to C. Backus, Omaha, Nebr. Sand-box.....	562,918	June 30	3260	787	75	2063
Rose, James M., Allegheny, Pa., assignor, by mesne assignments, to National Heat and Power Company, of New Jersey. Cupola gas-making apparatus.....	552,587	Jan. 7	143	39, 40	74	29
Rose, Preston B., Ann Arbor, assignor, by mesne assignments, to C. S. Herbert, L. B. Clark, Detroit, Mich., E. L. Whitford, F. O. McNew, L. M. Burton, and L. P. Wright, Washington, D. C. Farinaceous food compound.....	568,492	Sept. 29	3073		76	1910

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Rose, Smith T. (See Calkins, James S., assignor.)						
Rose, Thomas, Ambler, Pa., assignor to Keasbey & Mattison Company, of Pennsylvania. Device for securing boiler-coverings to boilers	553,319	Jan. 21	1514	363	74	311
Rose, William E., Angel Island, Cal. Wave-power	559,107	Apr. 28	2798	677	75	579
Rosedale, Adolph, Shreveport, La., assignor of one-half to F. S. Einstein, Savannah, Ga. Bottle	558,523	Apr. 21	1789	434	75	372
Rosema, Nanco. (See Zeilstra, Gerhard, assignor.)						
Roseman, Frank A., Lanham, Nebr. Combination-tool	570,188	Oct. 27	2584	613	77	528
Roseman, Frank A., Lanham, Nebr. Fence-picket vise	570,958	Nov. 10	975	227	77	848
Rosen, Carl J., Jr. (See Dehn, Carl W., assignor.)						
Rosen, Carl J., Jr., Topeka, Kans. Brake-beam	572,569	Dec. 8	846	203	77	1458
Rosenbaum, Arno S., New York, N. Y. Sham pillow	555,662	Mar. 3	312	73	74	1186
Rosenbaum, Morris. (See Kelso and Rosenbaum.)						
Rosenberg, Albert, Baltimore, Md. Manicure-table	557,234	Mar. 31	3134	751 752	74	1785
Rosenberg, Albert, assignor of one-third to C. J. Grieves, Baltimore, Md. Spittoon	559,404	May 5	101	22	75	700
Rosenberg, Ignaz. (See Krecke and Rosenberg.)						
Rosenberg, Jacob, New York, N. Y. Waistband for trousers	569,840	Oct. 20	1975	470	77	400
Rosenberger, Amos R., Springhouse, Pa. Apparatus for removing snow from roadways	562,978	June 30	3387	815	75	2091
Rosenberger, Charles B., Pittsburg, Pa. Playing-cards	563,619	July 7	645	150	76	121
Rosenberger, David P., Linville, Va. Folding poultrycrate	563,031	June 16	1719	418	75	1740
Rosenberger, Simon, and S. Jackson, Cincinnati, Ohio. Cigar-bunch machine	553,764	Jan. 28	2279	539	74	470
Rosenblat, E. S., <i>et al.</i> (See Loryea, William D. F., assignor.)						
Rosenblat, I. S., <i>et al.</i> (See Loryea, William D. F., assignor.)						
Rosenblum, Siscind, New Brunswick, N. J. Sewing-machine motor	564,535	July 21	2260	530	76	447
Rosenbluth, Edwin M., Philadelphia, Pa. Lantern	561,816	June 9	1352	323	75	1649
Rosencranz, William D., Hohokus, N. J. Spinning-frame	573,925	Dec. 29	3303	729	77	1971
Rosencrantz, Albert C., Evansville, Ind. Plow point and share	562,244	June 16	2079	504	75	1806
Rosencranz, Albert C., assignor to Heilman Plow Company, Evansville, Ind. Hillside-plow	555,055	Feb. 18	2235	533	74	952
Rosencranz, Albert C., assignor to Heilman Plow Company, Evansville, Ind. Hillside-plow	568,279	Sept. 22	2715	651	76	1829
Rosencranz, Albert C., assignor to Heilman Plow Company, Evansville, Ind. Cottonscraper	568,280	Sept. 22	2716	651	76	1829
Rosenfeld, Hans B. K., Dolgeville, assignor to A. Dolge & Son, New York, N. Y. Piano-hammer	557,429	Mar. 31	3480	834	74	1853
Rosenfeld, Ike, Philadelphia, Pa. Indicating device	553,427	Jan. 21	1692	404	74	344
Rosenheimer, Julius T., assignor to L. Rosenheimer, New York, N. Y. Envelop-fastener	552,970	Jan. 14	899	218	74	182
Rosenheimer, Louisa. (See Rosenheimer, Julius T., assignor.)						
Rosenkranz, John C., Brooklyn, N. Y. Buckle	566,227	Aug. 18	2307	565	76	1088
Rosenstock, Moritz, New York, N. Y. Bottle	573,484	Dec. 22	2510	595	77	1807
Rosenthal, George D., <i>et al.</i> (See Rockwell, Herbert O., assignor.)						
Rosenthal, Henry, New York, N. Y. Bung	573,624	Dec. 22	2771	657	77	1859
Rosenthal, Herman, New York, and L. Kramer, Brooklyn, N. Y.; said Kramer assignor to said Rosenthal. Heating-burner	570,771	Nov. 3	647	148	77	756
Rosentreter, Frank L., Rochester, N. Y. Sash-cord fastener	559,953	May 12	1105	246	75	902
Rosenzweig, Louis, <i>et al.</i> (See Musselman, Peter, assignor.)						
Rosling, John G., Oakland, Cal. Rotary engine	553,428	Jan. 21	1695	404	74	344
Ross, A. L. (See Shank, David A., assignor.)						
Ross, Archia L., New York, N. Y. Runner for stoops	565,301	Aug. 4	653	155 156	76	736
Ross, Edward. (See Bruning and Ross.)						
Ross, Elmore W., deceased, Springfield, Ohio; M. F. Ross, executrix. Cane-cutter	558,001	Apr. 7	867	219 220	75	163
Ross, Enoch. (See Taylor, John C., assignor.)						
Ross, Hiram, Providence, R. I. Electric switch	561,284	June 2	392	98	75	1446
Ross, John H., Birmingham, England. Central-draft oil-lamp	564,718	July 28	2578	611	76	524
Ross, Joseph, New York, N. Y. Pocket-book	562,032	June 16	1732	418	75	1740
Ross, Lydia, Denver, Colo. Bundle-carrier for bicycles	558,567	Apr. 21	1862	452	75	384
Ross, Mary F., executrix. (See Ross, Elmore W.)						
Ross, Matt F., Windfall, Ind. Piston-head	564,257	July 21	1797	421	76	364
Ross-Moyer Manufacturing Company. (See Ross, Simon, assignor.)						
Ross, Oliver B., Spencer, Iowa. Automatic measurer for creameries	574,274	Dec. 29	3992	949	77	2095
Ross, Oliver B., Spencer, Iowa. Automatic measurer for creameries	574,275	Dec. 29	3995	949	77	2096
Ross, Peter S., Jersey City, N. J. Subaqueous rock-breaking chisel	559,812	May 12	824	193	75	852
Ross, Robert H. (See Rich and Ross.)						
Ross, Robert K. (See Wiltfong, James D., assignor.)						
Ross, Simon, assignor to Ross-Moyer Manufacturing Company, Cincinnati, Ohio. Heel-former and nail-driver	569,938	Oct. 20	2146	508	77	432
Ross, Walter T., Montreal, Canada. Attachment for burners	568,703	Sept. 29	3487	833	76	1988
Ross, William, Montreal, Canada, assignor to Wrought Iron Bridge Company, Canton, Ohio. Die for forging reamer-blanks	554,734	Feb. 18	1649	359	74	845
Ross, William J., Boston, Mass. Sprocket-wheel	571,398	Nov. 17	1721	409	77	1002
Ross, William L., Omaha, Nebr. Furnace	561,817	June 9	1354	323	75	1650
Ross, William M. (See Safford and Ross.)						
Rossbach, Gustav, Lichtenfels, Germany. Electric massage apparatus	564,258	July 21	1798	421	76	364
Rossbach-Rousset, Fritz, Tempelhof, Germany. Gas-generating lamp	567,773	Sept. 15	1803	433	76	1645
Rossetti, Charles de, London, England. Wheel for velocipedes	568,281	Sept. 22	2717	651	76	1829
Rossiter, Reuben W., Minneapolis, Minn. Grain-separator	573,706	Dec. 22	2923	691	77	1886
Rossiter, Thomas R., assignor to Chappell, Allen & Co., London, England. Sewing-machine	566,538	Aug. 25	2888	702 704	76	1214
Rossman, Conrad, Pittsburg, Pa. Eye-forming machine for picks, &c	573,109	Dec. 15	1796	433	77	1660
Rossman, John B., St. Paul, Minn. Concentrator and amalgamator	563,806	July 14	972	231	76	198
Roston, David N., New Haven, Conn. Feather-curler	556,166	Mar. 10	1218	284	74	1375
Rotary King Manufacturing Co. (See Corneau, Armidas J., assignor.)						
Roth, Elias, New Oxford, Pa. Fence	557,430	Mar. 31	3481	834	74	1853
Roth, George, St. Sebald, Iowa. Wire gate	564,162	July 14	1645	384	76	322
Roth, Theodore H., Dolgeville, R. Dolge, and L. Melcher, New York, assignors to C. F. Zimmerman Company, Dolgeville, N. Y. Harp	557,509	Mar. 31	3621	868	74	1878
Roth, William L., Washington, D. C. Nursing-bottle	571,245	Nov. 10	1472	345	77	940
Rothberger, Daniel M., assignor of two-thirds to C. B. Keller and F. K. Sener, Lancaster, Pa. Rafter-support	564,844	July 28	2799	666	76	562

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Rothenbach, Alfred, Zurich, Switzerland. Vessel with temperature-isolating walls.	565,508	Aug. 11	1045	{ 250 251	{ 76	829
Rothfuss, Adam, Williamsport, Pa. Feed-water regulator.	559,497	May 5	256	60	75	731
Rothgiesser, Georg. (See Stern and Rothgiesser.)						
Rothrock, Edgar S., Garrettsville, Ohio. Dust-pan	561,917	June 9	1520	368	75	1682
Rothschild, Adolph, assignor of one-half to J. Friedman, F. M. Fisher, and W. F. Paxton, Paducah, Ky. Automatic dumping-car	560,369	May 19	1884	{ 429 430	{ 75	1098
Rothschild, Alexander W., New York, N. Y. Detachable holder	559,310	Apr. 28	3199	773	75	652
Rottach, August, New York, N. Y. Cigar-branding machine	570,230	Oct. 27	2663	633	77	543
Rotthoff, William, and M. A. Neeland, Duquesne, Pa. Blast-furnace offtake	567,414	Sept. 8	1213	290	76	1518
Rotz, John B., assignor of one-half to J. A. Moore, Morrison, Ill. Clothes-drier	553,135	Jan. 14	1176	286	74	236
Roubal, Josef, Prague, Austria-Hungary. Electric-arc-lamp carbon	559,752	May 5	685		75	811
Rounds, Benjamin F., Kansas City, Mo. Artificial limb	567,774	Sept. 15	1804	433	76	1645
Rounds, Herbert G., West Bay City, Mich. Soap-holder	562,033	June 16	1723	418	75	1741
Roundy, Daniel C., et al., executors. (See Sholes, Christopher L., assignor.)						
Rounsaville, Aurelious A., Blytheville, Ark. Floor or ceiling clamp	566,622	Aug. 25	3000	732	76	1236
Rouse, Constant S., Petoskey, Mich. Spring-couch	568,101	Sept. 22	2415	582	76	1772
Roush, C. P., Jr., et al. (See Stevens, Alfred L., assignor.)						
Rousseau, David, New York, N. Y. Telephone-switch	567,170	Sept. 8	774	182	76	1440
Rousseau, Joseph A., Fall River, Mass. Pneumatic tire for bicycles	567,512	Sept. 8	1366	329	76	1546
Rouselin, Léon J. (See Delpyrou and Rouselin.)						
Rout, Benjamin F., assignor of one-half to G. L. Penny, Stanford, Ky. Electric cut-out	571,734	Nov. 17	2314	553	77	1111
Routzong, John A. and J. C., Xenia, Ohio. Fence-post	572,831	Dec. 8	1312	314	77	1547
Routzong, Joseph C. (See Routzong, John A. and J. C.)						
Roux, Frederick, Stryker, Ohio. Loop-making machine	556,318	Mar. 10	1519	353	74	1430
Row, Elmer E., Greensburg, Pa. Automatic steam-feed for boiler-pumps	555,798	Aug. 11	1551	378	76	924
Rowan, David N., Irvington, N. Y. Telephone-transmitter	571,399	Nov. 17	1722	410	77	1002
Rowan, Willie M., Garden City, Kans. Windmill	557,893	Apr. 7	643	154	75	121
Rowand, Lewis G., assignor to Universal Fire Alarm Company, Camden, N. J. Automati-				{ 740 741	{ 76	1910
cally testing fire-alarm circuits	568,493	Sept. 29	3073	742		
Rowand, Lewis G., assignor to Universal Fire Alarm Company, Camden, N. J. Electric				{ 742 743	{ 76	1912
fire-alarm circuit and signal-box	568,494	Sept. 29	3079	743		
Rowand, Lewis G., assignor to Universal Fire Alarm Company, Camden, N. J. Fire-alarm						
circuit	568,495	Sept. 29	3085	743	76	1913
Rowand, Lewis G., assignor to Universal Fire Alarm Company, Camden, N. J. Automatic				{ 197 198	{ 77	797
safety device for electric circuits	570,882	Nov. 3	846	198		
Rowe, Daniel H., Greenup, Ill. Musical instrument	556,519	Mar. 17	1908	444	74	1519
Rowe, Edward, Indiana, Pa. Steam condenser and aerator	554,539	Feb. 11	1304	307	74	763
Rowe, Edward, Brooklyn, N. Y. Mechanical toy	565,570	Aug. 11	1146	276	76	848
Rowe, Ellis L. (See Knichling and Rowe.)						
Rowe, Ellis L., assignor to Rensselaer Manufacturing Company, Troy, N. Y. Valve	556,695	Mar. 17	2167	506	74	1567
Rowe, Ellis L., assignor to Rensselaer Manufacturing Company, Troy, N. Y. Valve	572,451	Dec. 1	643	152	77	1401
Rowe, George W., and W. G. Heys, Manchester, England. Pneumatic tire	558,703	Apr. 21	2095	506	75	427
Rowe, James E., assignor to E. Jenckes Manufacturing Company, Pawtucket, R. I. Knit-				{ 556 557	{ 77	483
ting-machine	570,059	Oct. 27	2347	558		
				559		
				560		
Rowe, Marvin L., Albany, N. Y. Dental disk-mandrel	560,047	May 12	1285	289	75	939
Rowe, Willard C., assignor to Union Iron Works, Decatur, Ill. Corn-sheller	565,926	Aug. 18	1794	437	76	929
Rowell, Benton C., Boston, Mass., assignor to Rowell-Potter Safety Stop Company, Port-				{ 482 483	{ 74	919
land, Me. Safety system for railways	554,957	Feb. 18	2038	483		
Rowell, Benton C., Boston, Mass., assignor to Rowell-Potter Safety Stop Company, Port-				{ 546 547	{ 74	1613
land, Me. Block system for railways	556,773	Mar. 24	2321	547		
Rowell, George W., assignor to D. E. Southwick, Ogdensburg, N. Y. Burial-case	568,001	Sept. 22	2214	534	76	1735
Rowell-Potter Safety Stop Company. (See Brinckerhoff, Francis M., assignor.)						
Rowell-Potter Safety Stop Company. (See Rowell, Benton C., assignor.)						
Rowland, Charles L., Brooklyn, N. Y. Welding apparatus	561,614	June 9	989	237	75	1582
Rowland, David E., Canton, Ohio. Siphon	554,798	Feb. 18	1754	413	74	865
Rowland, David E., Canton, Ohio. Post-hole digger	562,119	Sept. 22	2447	588	76	1778
Rowland, Eva E., Yonkers, N. Y. Felted headwear	554,378	Feb. 11	1030	239	74	711
Rowland, H. H. (See Heidelberg Samuel R., assignor.)						
Rowland, Harriet A., Evanston, Ill. Shirt-drying frame	571,537	Nov. 17	1971	469	77	1047
Rowland, Henry A., Baltimore, Md. Electrical measuring instrument	561,918	June 9	1521	{ 368 369	{ 75	1682
Rowland, Henry A., Baltimore, Md. Electrical measuring instrument	561,919	June 9	1524	369	75	1683
Rowland, Henry R., Canton, Ohio. Nut-lock	563,416	July 7	303	69	76	60
Rowland, Horace H. (See Heidelberg, Samuel R., assignor.)						
Rowland, Mary S., New York, N. Y. Toilet-box	563,985	July 14	1316	307	76	259
Rowland, Sydney D., London, England. Vacuum-pan	565,637	Aug. 11	1260	304	76	869
Rowlands, Hugh, Ty Crisston, near Valley, England. Mop	571,246	Nov. 10	1473	345	77	940
Rowlands, John R. (See Helm and Rowlands.)						
Rowlands, John R., assignor of one-half to G. H. H. Adams, Syracuse, N. Y. Can-capping				{ 36 37	{ 75	27
machine	557,610	Apr. 7	139	38		
Rowlett, Jacob V., Richmond, Ind. Tongueless cultivator	568,308	Sept. 22	2760	664	76	1838
Rowley, Claud C. (See McGinnis, Rowley, and Bean.)						
Rowley, Everett A. (See Rowley, John D., assignor.)						
Rowley, Frank, assignor of one-half to G. W. Roberts, West Superior, Wis. Dish-cleaner.	552,588	Jan. 7	147	40	74	29
Rowley & Hermance Company. (See Marsh, Calvin D., assignor.)						
Rowley, John D., assignor of one-half to E. A. Rowley, Kansas City, Mo. Truss.	569,236	Oct. 13	900	216	77	188
Rowley, John T., Tyrone, Pa., assignor to Keystone Axle Company, Wheeling, W. Va.	566,701	Aug. 25	3126	{ 764 765	{ 76	1258
Machine for shaping iron or steel						
Rowntree, Harold. (See Burdett and Rowntree.)						
Roy, Bozil S. (See Wicks and Roy.)						
Roy, John J., assignor to himself, R. Smith, F. Sugden, and R. Rigby, Lawrence, Mass.						
Signaling safety-valve	564,107	July 14	1540	361	76	302
Royce, Thomas H., Brooklyn, assignor to B. Altman, New York, N. Y. Bloomers	553,739	Jan. 28	2242	531	74	463
Royce, Thomas H., Brooklyn, assignor to B. Altman, New York, N. Y. Bicycle-mitten	571,020	Nov. 10	1020	252	77	868
Roylance, Leon S., et al. (See Brown, Wilfred L. and C., assignors.)						
Royle, Thomas, London, England. Purifying water	567,919	Sept. 15	2040		76	1692
Royle, Vernon, Paterson, N. J. Machine for punching and lacing Jacquard cards	556,774	Mar. 24	2324	{ 547 548	{ 74	1613

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Royle, Vernon, Paterson, N. J. Machine for repeating pattern-cards	556,775	Mar. 24	2327	{ 548 549	74	1614
Royle, Vernon, Paterson, N. J. Attachment for beveling-machines	563,886	July 14	1138	{ 216 267	76	228
Royle, Vernon, Paterson, N. J. Photographic shutter	568,102	Sept. 22	2416	582	76	1772
Rozell, Charles, Hutchinson, Kans. Billet-loop	571,689	Nov. 17	2212	533	77	1091
Rubber Tire Wheel Company. (See Grant, Arthur W., assignor.)						
Rubin, Max, Brooklyn, N. Y. Fan	555,339	Feb. 25	2736	641	74	1064
Ruby, Charles W., Brooklyn, N. Y. Support for reels or hose	570,819	Nov. 3	725	166	77	773
Rucker, George W., Belle Plaine, Iowa. Feeding attachment for threshing-machines	569,588	Oct. 13	1517	357	77	302
Ruckstinat, John, <i>et al.</i> (See Pegel, Julius G., assignor.)						
Ruckstinat, John, East Providence, R. I., assignor of one-half to J. Pegel, Philadelphia, Pa. Window-cleaner	570,231	Oct. 27	2665	633	77	543
Rucquoy, Frederic, New York, N. Y. Moving counter	565,180	Aug. 4	433	{ 103 104	76	697
Rudd, Charles H., assignor to Western Electric Company, Chicago, Ill. Thermo-explosive cartridge	556,901	Mar. 24	2537	598	74	1653
Rudd, Charles H., assignor to Western Electric Company, Chicago, Ill. Electrical detonator	556,902	Mar. 24	2541	599	74	1653
Rudd, Charles H., assignor to Western Electric Company, Chicago, Ill. Electrical detonator	556,903	Mar. 24	2542	599	74	1654
Ruddick, John J., Newton, Mass. Signal-box	556,904	Mar. 24	2544	599	74	1654
Ruddick, John J., Newton, Mass. Signal-box	561,525	June 2	837	202	75	1528
Ruddick, John J., Richmond, Ind., assignor, by mesne assignments, to United States Fire and Police Telegraph Company, Portland, Me., and Boston, Mass. Non-interfering signal apparatus	561,526	June 2	839	202	75	1528
Ruddick, John J., assignor of one-half to M. G. Crane, Newton, Mass. Fire-alarm signal-box	553,873	Feb. 4	106	23	74	525
Ruddock, Charles A., London, England. Apparatus for applying bronze to surfaces of paper, &c.	562,034	June 16	1724	419	75	1741
Rude Brothers Manufacturing Company. (See Ham, Henry C., assignor.)	553,941	Feb. 4	256	55	74	552
Ruden, Samuel L., New York, N. Y. Toe-clip for velocipedes	557,025	Mar. 24	2759	655	74	1695
Rudge, Frederick S., Brooklyn, N. Y. Toaster and broiler	561,728	June 9	1198	284	75	1622
Rüdiger, Gustavus, Sr. (See Harbaugh and Rüdiger.)						
Rüdiger, Waldemar von, Halle-on-the-Saale, Germany. Anticapsizing and life-saving appliance for small boats	554,349	Feb. 11	985	228	74	702
Rudolph, Christian, assignor to Firm of K. Oehler, Offenbach-on-the-Main, Germany. Brown azo dye	558,612	Apr. 21	1936		75	399
Rudolph, Christian, assignor to Firm of K. Oehler, Offenbach-on-the-Main, Germany. Oxynolnoln azo dye	558,613	Apr. 21	1937		75	399
Rudolph, Christian, assignor to Firm of K. Oehler, Offenbach-on-the-Main, Germany. Brown azo dye	558,614	Apr. 21	1938		75	399
Rudolph, Christian, assignor to Firm of K. Oehler, Offenbach-on-the-Main, Germany. Tri-sazo dye	572,723	Dec. 8	1128		77	1512
Rudolph, Christian, and E. Voges, assignors to Firm of K. Oehler, Offenbach-on-the-Main, Germany. Yellow dye	568,549	Sept. 29	3198		76	1932
Rudolph, Emil, Berlin, Germany. Ball-throwing device	563,807	July 14	974	232	76	199
Rudolph, Emil, assignor of one-half to H. Hurwitz & Co., Berlin, Germany. Ink-well	570,959	Nov. 10	976	227	77	849
Rudolph, William F., assignor to W. E. Barrows, Philadelphia, Pa. Electric igniter for gas-lighting	560,284	May 19	1736	395	75	1073
Rudolph, William F., assignor to W. E. Barrows, Philadelphia, Pa. Electric igniter for gas-lighting	560,370	May 19	1885	430	75	1098
Ruebel, C. A. Ernst, assignor to St. Louis Electrical Supply Company, St. Louis, Mo. Telephone	566,022	Aug. 18	1976	479	76	1026
Ruebsam, John E. (See Woods and Ruebsam.)						
Ruef, Charles S., assignor to Grand Detour Plow Company, Dixon, Ill. Riding-plow	553,600	Jan. 28	1999	474	74	418
Ruef, Charles S., assignor to Grand Detour Plow Company, Dixon, Ill. Cultivator	565,609	Aug. 11	1048	251	76	830
Ruelle, Emile, Blanc Misseron, France. Apparatus for drying phosphates	567,513	Sept. 8	1367	329	76	1546
Rueter, Edward E., Allentown, assignor to J. P. Knobeloch, Philadelphia, Pa. Lounge	571,247	Nov. 10	1474	{ 345 346	77	940
Ruff, Abraham L., Dickerson Run, Pa. Bicycle-lock	568,372	Sept. 29	2872	690	76	1874
Ruff, Frederick A., Detroit, Mich. Parcel and luggage carrier	562,744	June 23	2932	711	75	1982
Ruffe, Alphonso L., Grand Rapids, Mich. Folding-cot bedstead	568,282	Sept. 22	2718	652	76	1830
Ruffhead, Fred C., and E. J. Scheer, Rochester, N. Y. Bicycle-support	555,024	Feb. 18	2166	516	74	941
Ruffhead, Fred C., and E. J. Scheer, Rochester, N. Y. Adjustable bicycle-parasol and support	555,025	Feb. 18	2168	516	74	941
Ruffhead, Frederick C. (See Coder and Ruffhead.)						
Ruffner, Margaret O., St. Louis, Mo. Invalid's bath-tub	573,625	Dec. 22	2772	657	77	1859
Ruge, Frederick A., Springfield, N. Y. Advertising device	567,514	Sept. 8	1368	329	76	1546
Ruger, James W., Buffalo, N. Y. Machine for moistening dough	558,987	Apr. 28	2526	629	75	536
Ruggles, Thomas D. S., Kent, Ohio. Flue-cleaner	570,506	Nov. 3	127	31	77	662
Ruhl, Christine E., Findlay, Ohio. Dish-cleaner	560,371	May 19	1887	430	75	1098
Ruhl, Wilhelm, Berlin, Germany. Fuel-feeder for furnaces	571,139	Nov. 10	1302	{ 302 303	77	908
Ruhland, Henry. (See Foehl, Charles, assignor.)						
Rule, John A., Mount Washington, Ohio. Slot-machine for automatic vending of newspapers	557,235	Mar. 31	3136	752	74	1786
Rumage, Louis, Cleveland, Ohio. Fire-cracker holder	566,802	Sept. 1	113	27	76	1302
Rumbarger, Robert R., <i>et al.</i> (See Ogborn, Harrison, assignor.)						
Rumbarger, Victor E., assignor of one-half to H. G. Protsman, Dayton, Ohio. Bicycle handle-bar	553,178	Jan. 14	1260	305	74	250
Rumbarger, Victor E., assignor of one-half to H. G. Protsman, Dayton, Ohio. Bicycle handle-bar	564,108	July 14	1541	362	76	303
Rumble, Alexander C., San Francisco, Cal. Amalgamator	559,986	May 12	1170	260	75	919
Rumely, Andrew P. (See Forslund and Rumely.)						
Rumely, Andrew P., Chicago, Ill. Pipe-cleaner	572,724	Dec. 8	1199	272	77	1512
Rumely, Meinrad, assignor to M. Rumely Company, La Porte, Ind. Grain-deliverer for threshing-machines	564,765	July 28	2675	636	76	540
Rumfield, Hiram S., Salt Lake City, Utah. Penholder	566,623	Aug. 25	3001	733	76	1236
Rumford, Edward G., Philadelphia, Pa. Hat and coat tree	565,799	Aug. 11	1552	378	76	925
Rumrill, John A., Salina, Kans. Axle-spindle and box	567,515	Sept. 8	1369	330	76	1546
Ramsey, Lewis M., St. Louis, Mo. Water-closet bowl	553,790	Jan. 28	2312	548	74	476

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Rundlett, William D., North Andover, Mass. Sewing-machine.	570,962	Nov. 10	981	228	77	849
Rundlett, William D., North Andover, Mass., assignor to W. H. Haskell, Pawtucket, R. I. Sewing-machine.	570,960	Nov. 10	977	228	77	849
Rundlett, William D., Providence, assignor to W. H. Haskell, Pawtucket, R. I. Sewing-machine.	570,961	Nov. 10	980	228	77	849
Rundquist, William, Elgin, Ill. Lawn-sprinkler.	562,245	June 16	2081	505	75	1806
Runkel, Friedrich, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Red azo dye.	561,615	June 9	991	-----	75	1583
Runkel, Friedrich, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Blue azo dye.	567,615	Sept. 15	1540	-----	76	1693
Runkle, Otto M., Columbus, Ohio. Telegraph instrument.	568,103	Sept. 22	2419	583	76	1773
Runkle, William Z., Delphi, Ind. Mail receiver and delivering apparatus.	572,315	Dec. 1	408	97, 98	77	1356
Runnoe, Joseph, W. H., and M. C., Crested Butte, Colo. Power-sled.	557,085	Mar. 24	2844	680	74	1714
Runnoe, Moses C. (See Runnoe, Joseph, W. H., and M. C.)						
Runnoe, William H. (See Runnoe, Joseph, W. H., and M. C.)						
Runyon, Charles. (See Coleman and Runyon.)						
Runyon, Lewis M., Allamuchy, N. J. Wire fence.	570,567	Nov. 3	254	63	77	685
Runyon, William S., Lexington, Iowa. Corn-cultivator attachment.	554,735	Feb. 18	1650	389	74	845
Rupert, William A., and S. J. Frazier, assignors to Revolving Advertising Case Co., Con-neautville, Pa. Revolving advertising device.	552,700	Jan. 7	351	92	74	68
Ruppel, Henry, Cleveland, Ohio. Hydrocarbon heating-stove.	564,259	July 21	1799	{ 421 422 }	{ 76 76 }	{ 364 364 }
Ruppel, Henry, Cleveland, Ohio. Hydrocarbon-vapor burner.	567,659	Sept. 15	1622	390	76	1611
Ruppert, Frank, <i>et al.</i> (See Kinkel, Charles, assignor.)						
Ruppert, Henry, Sebewaing, Mich. Mortising-chisel.	571,400	Nov. 17	1724	410	77	1002
Ruppolt, Carl, Berlin, Germany. Atomizer.	553,765	Jan. 28	22-0	539	74	470
Rusby, Joseph H., Nutley, N. J. Electric-light attachment.	571,248	Nov. 10	1476	346	77	941
Ruschitzka, Edward J. (See Cunningham, Martin J., assignor.)						
Rusden, Ethelbert A., Hartford, Conn. Aging-machine.	565,927	Aug. 18	1796	438	76	989
Rusden, Richard J. N., Didsbury, England. Show-card, &c., or means for displaying vel-vets, &c.	573,538	Dec. 22	2603	617	77	1825
Rush, Stephen P., assignor of one-half to G. W. Friedley, Tyrone, Pa. Pan-lifter.	572,031	Nov. 24	2840	668	77	1229
Rush, William H., Skidmore, Tex. Wrench.	554,225	Feb. 4	759	173	74	645
Rushforth, George, Stockton, Cal. Fireproof building.	556,375	Mar. 17	1630	382	74	1466
Rushton, Kenneth, Philadelphia, Pa. Operating mechanism for throttle-valves.	555,738	Mar. 3	433	102	74	1207
Russ, Francis H. (See Lewis and Kochendarfer, assignors.)						
Russel, Albert W. (See Morrison, John, assignor.)						
Russell, Albert H., Mount Washington, Mo. Wire fence.	566,474	Aug. 25	2794	679	76	1195
Russell, Albert H., Kansas City, Mo., assignor to Russell Automatic Knife Company, Chi-cago, Ill. Pocket-knife.	552,928	Jan. 14	826	201	74	168
Russell, Albert N., Mound Valley, Kans. Sash-holder.	556,477	Mar. 17	1813	421	74	1502
Russell, Albert N., Mound Valley, Kans. Curtain-fixture.	567,171	Sept. 8	776	182	76	1441
Russell, Allen A., Massillon, Ohio. Pneumatic straw-stacker.	556,776	Mar. 24	2331	549	74	1614
Russell, Andrew J., North Baltimore, Ohio. Sliding and swinging gate.	562,035	June 16	1732	419	75	1742
Russell Automatic Knife Company. (See Russell, Albert H., assignor.)						
Russell & Company. (See Heggem, Charles O., assignor.)						
Russell, Elbridge W. (See Lynam and Russell.)						
Russell & Erwin Manufacturing Company. (See Henry, William K., assignor.)						
Russell & Erwin Manufacturing Company. (See Moser, Benjamin, assignor.)						
Russell & Erwin Manufacturing Company. (See Voight, Henry G., assignor.)						
Russell, Frank E., Jr., assignor of one-half to W. T. Orr, Detroit, Mich. Jar-holder.	561,064	May 26	3136	724	75	1347
Russell, George E. (See Russell, William H. and G. E.)						
Russell, George K., New York, N. Y. Car-coupling.	570,684	Nov. 3	495	116	77	731
Russell, George V., Kalamazoo, Mich. Circular track or course.	567,516	Sept. 8	1371	330	76	1547
Russell, John R., Lynn, Mass. Combination waste-barrel and truck.	569,520	Oct. 13	1385	326	77	277
Russell Manufacturing Company. (See Fisher, William C., assignor.)						
Russell, Martin C., Saratoga Springs, N. Y. Match-safe.	573,358	Dec. 15	2237	539	77	1743
Russell, N. E., <i>et al.</i> (See Smith, Orison M., assignor.)						
Russell, T. A., <i>et al.</i> (See Aiton, John W., assignor.)						
Russell, William H., Newcastle, Canada. Electric-car trolley.	564,395	July 21	2035	478	76	406
Russell, William H., New City, and G. E. Russell, Little Falls, N. Y. Telephone.	554,895	Feb. 18	1935	455	74	899
Russell, Windlow. (See Hastings and Russell.)						
Russo, Louis. (See Sparmo and Russo.)						
Rust, Franklin M. (See Rust, Jacob L. and F. M.)						
Rust, Jacob L. and F. M., Gladstone, Ill. Windmill.	562,246	June 16	2082	505	75	1806
Rust, John C., Orland, Ill. Can-cleaner.	565,234	Aug. 4	501	131	76	718
Rust, John H., Pittsburg, Pa. Basket.	565,510	Aug. 11	1049	251	76	830
Rustin, Henry, Omaha, Nebr. Track-brake.	563,887	July 14	1140	267	76	229
Ruth, John A., Baltimore, Md. Safety-casing for oil or gasoline stoves.	554,037	Feb. 4	423	93	74	582
Ruth, John A., Baltimore, Md. Safety-casing for gasoline-stoves.	567,415	Sept. 8	1213	290	76	1518
Ruth, Linford F., Connellsville, Pa. Sleeping-car.	559,541	May 5	330	{ 79 80 81 }	{ 75 75 75 }	{ 746 746 746 }
Ruth, Thomas D., Buffalo, N. Y. Flue-cutter.	572,570	Dec. 8	847	203	77	1458
Ruthenberg, August, Rochester, N. Y. Car-brake.	568,959	Oct. 6	417	93	77	80
Rutherford, Eugene W. (See White, William H., assignor.)						
Rutherford, James and J. E., Akron, Ohio. Deflector.	561,134	June 2	101	27	75	1386
Rutherford, Joseph E. (See Rutherford, James and J. E.)						
Rutishauser, Eugene, Chicago, Ill. Nulling or beading lathe.	557,894	Apr. 7	644	{ 154 155 }	{ 75 75 }	{ 121 121 }
Rutschman, Francis S., Philadelphia, Pa. Apparatus for solidifying liquid soap.	567,006	Sept. 1	484	112	76	1373
Rutter, Henry, <i>et al.</i> (See Davenport, George, assignor.)						
Rutter, James L. (See Sherk, Rutter, and Groh.)						
Rutter, Peter H., <i>et al.</i> (See Davenport, George, assignor.)						
Rutter, William F., <i>et al.</i> (See Davenport, George, assignor.)						
Ruttman, Charles F., Valparaiso, Nebr. Wire-stretcher for corner-posts.	556,214	Mar. 10	1302	304	74	1389
Rutz, Carl G., Brooklyn, N. Y. Trimming attachment for sewing-machines.	556,940	Mar. 24	2595	611	74	1664
Rud, Edwin, and A. G. Holmes, assignors to Pittsburg Meter Company, Pittsburg, Pa. Disk meter.	568,924	Oct. 6	349	81	77	67
Ryall, Henry W., and R. J. Chatham, Whayland, Md. Seine-float.	557,611	Apr. 7	146	38	75	29
Ryan, Edward. (See Haley, Michael, assignor.)						
Ryan, Emily. (See Ryan, Thomas J., assignor.)						
Ryan, Frank, Springfield, Ill. Adjustable mirror for bicycles.	564,454	July 21	2131	492	76	423

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Ryan, George H., assignor of two-thirds to Barrows & Greely and G. V. Scott, Brockton, Mass. Machine for making tacks.	559,542	May 5	336	81	75	748
Ryan, George H., assignor of two-thirds to Barrows & Greely and G. V. Scott, Brockton, Mass. Tack-making machine.	561,285	June 2	394	98	75	1446
Ryan, John J., Memphis, Tenn. Shore-anchor.	571,624	Nov. 17	2199	506	77	1072
Ryan, John T., Lockport, N. Y. Machine for manufacturing paper interlining for dresses.	566,278	Aug. 18	2379	583 } 584 }	70	1101
Ryan, Lawrence F., New York, N. Y. Fastening device for window-guards.	560,937	May 26	2940	675	75	1310
Ryan, Michael B., Bridgeport, Conn. Folding bicycle.	569,354	Oct. 13	1105	262	77	228
Ryan, Michael B., assignor to J. C. Jackman, Bridgeport, Conn. Adjustable handle-bar for bicycles.	564,536	July 21	2262	531	76	447
Ryan, Patrick. (See Campbell, John P., assignor.)						
Ryan, Patrick, assignor of one-half to W. H. Kelly, New York, N. Y. Starter's gate for race-tracks.	553,740	Jan. 28	2242	531 } 532 }	74	463
Ryan, Sylvester A. (See Cook, Francis L., assignor.)						
Ryan, Thomas A., and I. Whitney, assignors to C. F. Hatch, Lowell, Mass. Game apparatus.	570,105	Oct. 27	2438	579	77	501
Ryan, Thomas J., Buffalo, N. Y. Sand-core-molding machine.	571,458	Nov. 17	1818	434 } 435 }	77	1020
Ryan, Thomas J., assignor to E. Ryan, Buffalo, N. Y. Molding-machine.	572,278	Dec. 1	328	78 } 79 } 80 }	77	1342
Rydback, John. (See Forsberg, Peter, assignor.)						
Ryder, Charles J., Patchogue, N. Y. Bicycle-holder.	573,038	Dec. 15	1667	400	77	1635
Ryder, David C., Catskill, assignor to W. H. Briggs, Coeymans, N. Y. Stop-motion.	557,612	Apr. 7	146	38	75	29
Ryder, Edgar L., et al. (See Gartner, Alfred, assignor.)						
Ryder, Josiah F., Attleborough, Mass. Combination-tool.	571,287	Nov. 10	1541	366	77	953
Ryder, Russell, Newburg, N. Y. Bottle.	567,172	Sept. 8	778	183	76	1441
Ryer, Thomas J. (See Meyer, Joseph N., assignor.)						
Rylander, James B., assignor of one-half to R. B. Williams, Lockhart, Tex. Folding ironing-table.	571,800	Nov. 24	2431	580	77	1152
Ryman, Herman M., Brooklyn, N. Y. Pessary.	559,405	May 5	103	22	75	701
Ryman, Herman M., Brooklyn, N. Y. Pessary.	559,406	May 5	104	23	75	701
Ryno, Frederick A., assignor of one-half to A. H. Warren, St. Paul, Minn. Button-attach- ing machine.	560,866	May 26	2816	645 } 646 }	75	1287
Ryon, Eppa H., Waltham, assignor to Northrop Loom Company, Hopedale, Mass. Shut- tle-changing mechanism for looms.	557,519	Mar. 31	3636	872	74	1881
Ryon, Eppa H., assignor of one-half to A. M. Goodale, Waltham, Mass. Yarn or thread winding machine.	558,314	Apr. 14	1419	349	75	286
S. A. Cook & Company. (See Bigelow, Don J., assignor.)						
S. A. Woods Machine Company. (See Blood, Charles W. H., assignor.)						
S. A. Woods Machine Company. (See Heath, Elroy N., assignor.)						
S. A. Woods Machine Company. (See Lawrence and Tillison, assignors.)						
S. Howes Company. (See Keith, Elgin, assignor.)						
S. S. White Dental Manufacturing Company. (See Browne, Arthur W., assignor.)						
S. S. White Dental Manufacturing Company. (See Browne and Harrison, assignors.)						
S. S. White Dental Manufacturing Company. (See Hakens, George B., assignor.)						
S. S. White Dental Manufacturing Company. (See Hollingsworth, Merrill W., assignor.)						
S. S. White Dental Manufacturing Company. (See Gilbert, John W., assignor.)						
S. S. White Dental Manufacturing Company. (See Gilbert, Virgil W., assignor.)						
S. S. White Dental Manufacturing Company. (See Monfort, Joseph E., assignor.)						
Saaf, Swan P. (See Tolf, Victor, assignor.)						
Sabin, Alvah H., assignor to Edward Smith & Company, Long Island City, N. Y. Japanning.	563,417	July 7	304	-----	76	60
Sabin, Harvey D., St. Albans, Vt. Umbrella-fixture.	554,313	Feb. 11	925	212	74	692
Sabine, John, Taunton, Mass. Lacing-strip for laced shoes.	570,963	Nov. 10	984	229	77	850
Sabourin, David C. and J. Lowell, Mass. Vise.	570,340	Oct. 27	2903	689	77	587
Sabourin, Joseph. (See Sabourin, David C. and J.)						
Sachs, Henry, Washington, D. C. Detachable calk for horseshoes.	558,847	Apr. 21	2331	567	75	471
Sachs, Joseph, New York, N. Y. Electric type-setting machine.	567,256	Sept. 8	912	218	76	1464
Sack, Hugo, Dusseldorf, Germany. Photographic-printing frame.	563,888	July 14	1141	287 } 288 }	76	229
Sack, Louisa. (See März and Sack.)						
Sacket, Samuel F., et al. (See Roach, Robert C., assignor.)						
Sackett, Charles E., Danbury, Conn. Machine for plucking hair from furred pelts.	557,236	Mar. 31	3138	753	74	1786
Sackett, Charles E., Danbury, Conn. Fur-plucking machine.	566,342	Aug. 25	2503	614	76	1141
Sackett, Charles E., Danbury, Conn. Fur-plucking machine.	566,343	Aug. 25	2506	614 } 615 }	76	1142
Sackett, Orville R., Niagara Falls, assignor of one-half to R. McNutt, Buffalo, N. Y. Trol- ley-catcher.	567,690	Sept. 15	1668	401	76	1620
Sackett & Wilhelms Lithographing Company. (See Betzig, Edward C., assignor.)						
Sackett, William S. (See Campbell and Kiefer, assignors.)						
Sadler, J. F. (See Finley, Robert L., assignor.)						
Sadler, Samuel A., and R. H. Wilson, Middlesborough, assignors, by mesne assignments, to American Alkali Company, Limited, London, England. Apparatus for making chlorin.	573,039	Dec. 15	1668	400 } 401 }	77	1636
Sadler, Thomas E., Reno, Nev. Potato digger and separator.	565,181	Aug. 4	434	104	76	697
Sadlier, William T., Boston, assignor to A. D. MacLachlan, Melrose, Mass. Cover for manuscript or printed notes.	559,219	Apr. 28	3061	739	75	626
Sadtler, Samuel P., Philadelphia, Pa. Making leather.	556,325	Mar. 10	1537	-----	74	1435
Safety, Robert I., et al. (See De La Hunt, Reverdy C., assignor.)						
Safety Car Heating and Lighting Company. (See Dixon, Robert M., assignor.)						
Safety Mail Crane Company. (See Barr and Naylor, assignors.)						
Saffold, Ray P., Selma, Ala. Umbrella.	574,219	Dec. 29	3896	927	77	2077
Saffold, Starke S., Cleveland, Ohio. Cartridge-loading device.	561,439	June 2	676	165 } 166 }	75	1497
Safford, Charles M., and W. M. Ross, Cleveland, Ohio. Repeating mechanism for clocks.	574,114	Dec. 29	3655	872 } 873 }	77	2035
Safford, Larkin S., Kelso, N. D. Grain-box.	555,127	Feb. 25	2367	563	74	995
Sage, Chester A., assignor of one-fourth to J. Hoagland, Ithaca, N. Y. Heel-plate for shoes, &c.	555,709	Mar. 3	381	88	74	1198
Sager, Harry A., Butte, Mont. Portable sawmill.	566,624	Aug. 25	3002	733	76	1236
Sager, James H., Rochester, N. Y. Bicycle-saddle.	566,344	Aug. 25	2508	615	76	1142
Sager, James H., assignor, by mesne assignments, to Sager Manufacturing Company, Roch- ester, N. Y. Cushion for bicycle-saddles.	562,919	June 30	3260	787	75	2063

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Sager Manufacturing Company. (See Sager, James H., assignor.)						
Sagne, Paul, Geneva, Switzerland. Advertising-vehicle	566,539	Aug. 25	2890	704	76	1213
Sahlfeld, Fritz, Hanover, Germany. Making extract of fish	554,540	Feb. 11	1305		74	763
Saint, Robert M., Des Moines, Iowa. Music-writing machine	572,571	Dec. 8	849	203	77	1459
Saladee, William H., assignor of one-half to J. W. Pruitt, Bedford, Ind. Hand-car	558,615	Apr. 21	1939	470	75	399
Salamon, Alfred G. (See Hood and Salamon.)						
Salathé, Frederick, assignor to Union Oil Company of California, Santa Paula, Cal. Hydrocarbon product	564,341	July 21	1940	458	76	389
Salberg, Philip R., Allegheny, Pa. Electric-arc lamp	567,691	Sept. 15	1671	402	76	1620
Salenius, Erik G. N., Stockholm, Sweden. Centrifugal liquid-separator	559,065	Apr. 22	2718	661	75	561
Salenius, Erik G. N., Stockholm, Sweden. Centrifugal apparatus	573,707	Dec. 28	2924	691	77	1886
Salenius, Erik G. N., assignor to Aktiebolaget Radiator, Stockholm, Sweden. Centrifugal creamer	556,905	Mar. 24	2545	599	74	1654
Salin, Peter E., Chicago, Ill. Pencil-sharpener	560,304	May 19	1774	404	75	1078
Salisbury, David S., et al. (See Cary, Nathaniel S., assignor.)						
Salisbury, Frank L., et al. (See Rau, John, assignor.)						
Salisbury, George P., assignor to R. H. Brown, New Haven, and L. A. Platt, Waterbury, Conn. Machine for making saws	555,620	Mar. 3	224	53, 54	74	1171
Salisbury, John E., et al. (See Rau, John, assignor.)						
Sallee, William H. H., assignor of one-half to A. E. McQuoid, Rutledge, Mo. Lid for crates	573,040	Dec. 15	1671	401	77	1636
Salot, Victor A., Fort Wayne, Ind. Universal chuck	570,736	Nov. 3	590	135	77	746
Salmon, William C., Palatine, Ill. Steam cooking apparatus	566,228	Aug. 18	2308	565	76	1089
Salomon, Julius, Berlin, Germany. Pottery-ware stove	559,867	May 12	948	212	75	875
Salot, George, Dubuque, Iowa. Tool-holder	560,111	May 12	1415	318	75	964
Salquist, Gustaf, Denver, Colo. Combination-chair	562,920	June 30	3362	787	75	2063
Salter, John, Jr., Chicago, Ill., assignor to Otto Gas Engine Works, Philadelphia, Pa. Internal-combustion engine	564,766	July 28	2676	636	76	540
Saltsman, Daniel J., Memphis, Tenn. Log-turner	571,801	Nov. 24	2433	580	77	1153
Salvage, William L., Tampa, Fla. Manuscript-holder	567,660	Sept. 15	1623	391	76	1611
Salvin, Maurice. (See Wilde, Louis J., assignor.)						
Salvotti, Ugo, Milan, Italy. Apparatus for fixing and supporting rock-drills	572,183	Dec. 1	154	37	77	1307
Sammis, Mary, Bloomfield, N. J. Combined carver and steel	568,878	Oct. 6	283	65	77	54
Samnood, Pedro, Lima, Peru. Nautical registering apparatus	572,832	Dec. 8	1313	315	77	1547
Sample, George W., assignor of one-half to W. F. Ottmyer, York, Pa. Match-splint machine	566,279	Aug. 18	2381	584	76	1102
Sample, Richard S., Huntington, W. Va. Spring bed-bottom	563,942	July 14	1240	290	76	245
Sample, Richard S., Huntington, W. Va. Bed-spring frame	570,341	Oct. 27	2904	689	77	557
Sampolo, Sebastian P., and C. L. A. Brasseur, New York, N. Y., assignors to Joly-Sambrá Company, of New York. Forming photographic prints	571,314	Nov. 10	1587	377	77	963
Sampson, Benjamin F. (See Hartman and Strouse, assignors.)						
Sampson, Sidney W., Hudson, Mass. Valve	570,772	Nov. 3	648	148	77	757
Samson Cordage Works. (See Martin and Tolman, assignors.)						
Samson Cordage Works. (See Tolman, James P., assignor.)						
Samson, Napoleon, Rivière du Loup, Canada, assignor of one-half to L. P. Beaulien, Lowell, Mass. Ratchet-drill	553,263	Jan. 21	1408	343	74	293
Samuel, Leopold S., Newark, N. J. Soap cake	555,663	Mar. 3	314	73	74	1186
Samuels, Frank W., Indianapolis, Ind. Cap	553,043	Jan. 14	1010	247	74	203
Samuels, Izak, New York, N. Y. Secondary-battery plate	556,027	Mar. 10	951	227	74	1326
Samuels, Marks, assignor to M. Samuels, New York, N. Y. Folding bed	554,144	Feb. 4	633	143	74	620
Samuels, Mindel. (See Samuels, Marks, assignor.)						
Samuelson, Alexander. (See Everett and Samuelson.)						
San Francisco Arms Company. (See Carr, Howard, assignor.)						
San Francisco Arms Company. (See Catlin, Robert M., assignor.)						
San Francisco Register Company. (See Logan, Charles L., assignor.)						
Sandbeck, Christian N., Harmony, Minn. Telephone-switch	570,773	Nov. 3	650	148	77	757
Sandberg, Leopold, Berlin, Germany. Umbrella or walking stick	559,043	Apr. 28	2686	654	75	555
Sanborn, Harrison T., Somerville, Mass. Apparatus for singeing cloth	559,610	May 5	443	104	75	769
Sanden, Albert T. (See Moore and MacCulloch, assignors.)						
Sander, Frederick H., Malden, Mass. Musical box	565,093	Aug. 4	246	60	76	662
Sanders, Barney H., assignor to Pleuger & Henger Manufacturing Company, St. Louis, Mo. Sprinkler	558,568	Apr. 21	1862	452	75	384
Sanders, Barney H., assignor to Pleuger & Henger Manufacturing Company, St. Louis, Mo. Sink-trap	558,569	Apr. 21	1863	452	75	385
Sanders, Elizabeth A., James Store, Va. Bottle	568,210	Sept. 22	2596	625	76	1806
Sanders, Ernst. (See Bertram and Sanders.)						
Sanders, Francis L., Nottingham, England. Wrench	560,938	May 26	2942	675	75	1311
Sanders, Frank, assignor to J. Wetter, Brooklyn, N. Y. Numbering-machine	561,818	June 9	1356	324	75	1650
Sanders, George A., et al. (See Newman, Nelson, assignor.)						
Sanders, James S., Durango, Colo. Awning	552,781	Jan. 7	520	127	74	97
Sanders, John M., Dalton, Ga. Pea-huller	561,616	June 9	992	238	75	1583
Sanders, Richard H., and C. T. Thompson, Philadelphia, Pa. Process of and machine for magnetic separation	573,485	Dec. 22	2512	595	77	1807
Sanders, William W., Chattanooga, Tenn. Grain-drier	553,988	Apr. 28	2588	629	75	537
Sanderson, Charles D., Throop, Pa. Separator	568,145	Sept. 22	2495	600	76	1787
Sanderson, Edward W., Merrimac, N. H. Machine for leveling, chamfering, and crozing ends of barrels	568,170	Sept. 22	2531	609	76	1794
Sanderson, Frederick, Chicago, Ill. Apparatus for playing duplicate whist	564,225	July 21	1743	408	76	353
Sanderson, Frederick H., Cambridge, England. Photographic camera	570,774	Nov. 3	652	149	77	758
Sanderson, George E. (See Hays and Sanderson.)						
Sanderson, Harold W., London, England. Printing wall-paper	569,237	Oct. 13	902	216	77	188
Sanderson, James A. (See Reel, John, assignor.)						
Sanderson, James G., Scranton, Pa. Furnace and grate	561,729	June 9	1199	284	75	1622
Sanderson, James G., Scranton, Pa. Furnace-grate and automatic stoker	573,298	Dec. 15	2145	514	77	1722
Sanderson, William, assignor of one-half to H. D. Burrill, Syracuse, N. Y. Machine for assembling parts of wheels	569,888	Oct. 20	2046	487	77	412
Sandford, Edward, et al. (See Cooke, Robert F., assignor.)						
Sandlands, James R. (See Patterson, James, assignor.)						
Sandillon, Ferdinand M., Las Palmas, Canary Islands. Automatic feed-water regulator for steam-generators	569,841	Oct. 20	1976	470	77	400

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Sandmeyer, Traugott, assignor to J. R. Geigy & Co., Basle, Switzerland. Greenish-blue dye.....	564,801	July 28	2733	76	550
Sandmeyer, Traugott, assignor to J. R. Geigy & Co., Basle, Switzerland. Red dye.....	573,299	Dec. 15	2148	.....	77	1722
Sandoe, Henry P., Biglerville, Pa. Wire fence.....	563,509	July 7	467	110	76	89
Sandow, Eugene, Königsberg, Germany. Exercising apparatus.....	552,971	Jan. 14	900	{ 218 219 }	74	182
Sands, James T., St. Louis, Mo. Sash-balance.....	556,696	Mar. 17	2168	506	74	1568
Sands, James T., St. Louis, Mo. Smoke-bleaching attachment for grates.....	562,247	June 16	2084	505	75	1807
Sands, James T., St. Louis, Mo. Smoke-bleaching cap for chimneys.....	565,036	Aug. 4	131	31	76	642
Sanford, Alexander G., Warren, R. I. Sprinkling device for stopples.....	570,716	Nov. 3	549	127	77	740
Sanford, Andrew J., Zanesville, Ohio. Glass-shaping machine.....	566,803	Sept. 1	113	23	76	1302
Sanford, Charles E., Brooklyn, N. Y. Watchman's time-recorder.....	565,037	Aug. 4	132	31, 32	76	642
Sanford, George D., Albany, and J. S. Kilby, assignors to Remlik Company, New York, N. Y. Window.....	567,661	Sept. 15	1624	391	76	1611
Sanford, George S., and H. H. Barnard, Syracuse, N. Y. Treadle mechanism.....	555,739	Mar. 3	434	102	74	1207
Sanford, George S., and H. H. Barnard, Syracuse, N. Y.; said Barnard assignor to said Sanford. Wheel-brake.....	563,620	July 7	647	151	76	122
Sanford, John C., Cohoes, N. Y. Undergarment.....	565,182	Aug. 4	437	105	76	698
Sanford, Otis A., Newcastle, Cal. Box-machine.....	552,782	Jan. 7	522	{ 127 128 129 }	74	98
Sanford, Townsend W. (See Litchfield and Sanford.)						
Sanger, John N., Brooklyn, assignor to Fred Adeo & Company, New York, N. Y. Valve apparatus.....	559,611	May 5	445	104	75	769
Sangster, James. (See Holmes, Britain, assignor.)						
Sanitary Construction Company. (See Taylor and McLauthlin, assignors.)						
Saniter, Ernest H., Wigan, England. Purifying iron or steel.....	571,538	Nov. 17	1972	.....	77	1047
Sanor, George W., Rogersville, Mo. Folding bed.....	553,968	Feb. 4	303	67, 68	74	560
Sansom, John D., Peoria, Ill. Bell-ringer.....	553,429	Jan. 21	1696	404	74	345
Sapozhnikova, Nina. (See Woschyllo, Michail, assignor.)						
Sapp, Vernon E., Starke, Fla. Plow.....	556,376	Mar. 17	1633	382	74	1467
Sapper, Frank C., assignor to Sims Company, Limited, Erie, Pa. Injector.....	568,797	Oct. 6	146	34	77	30
Sappey, Louis. (See Freund and Sappey.)						
Sargeant, Myron K., Moselle, N. D. Agricultural machine.....	560,112	May 12	1416	318	75	964
Sargent, Allan C. (See Sargent, Frederick G. and A. C.)						
Sargent, Allan C., et al. (See Furbush, Frank L., assignor.)						
Sargent, Benjamin F. (See Stone, Charles E., assignor.)						
Sargent & Company. (See Page, Albert A., assignor.)						
Sargent & Company. (See Sargent, Edward R., assignor.)						
Sargent & Company. (See Sargent, Henry B., assignor.)						
Sargent & Company. (See Sargent and Page, assignors.)						
Sargent & Company. (See Shaw, John H., assignor.)						
Sargent & Company. (See Sparks, William E., assignor.)						
Sargent & Company. (See Stadtmuller, Henry R., assignor.)						
Sargent & Company. (See Wright, Granville W., assignor.)						
Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle.....	556,556	Mar. 17	1959	457	74	1528
Sargent, Frederick G., et al. (See Furbush, Frank L., assignor.)						
Sargent, Frederick G., Graniteville, Mass. Fiber-washing machine.....	561,180	June 2	195	48	75	1404
Sargent, Frederick G. and A. C., Graniteville, Mass. Wool-washing machine.....	569,980	Oct. 20	2212	{ 525 526 }	77	443
Sargent, Henry B., assignor to Sargent & Company, New Haven, Conn. Shelf-bracket.....	561,242	June 2	283	71	75	1422
Sargent, Henry B., assignor to Sargent & Company, New Haven, Conn. Master-key pin-lock.....	564,029	July 14	1388	323	76	273
Sargent, Henry B., New Haven, and A. A. Page, East Haven, assignors to Sargent & Company, New Haven, Conn. Master-key pin-lock.....	561,343	June 2	500	125	75	1466
Sargent, James T., assignor to American Washboard Company, Cleveland, Ohio. Wash-board.....	556,557	Mar. 17	1960	457	74	1528
Sargent, James T., assignor to American Washboard Company, Cleveland, Ohio. Wash-board.....	556,558	Mar. 17	1961	{ 457 458 }	74	1529
Sargent, James T., assignor to American Washboard Company, Cleveland, Ohio. Wash-board.....	556,560	Mar. 17	1963	459	74	1529
Sargent, James T., assignor to American Washboard Company, Cleveland, Ohio. Wash-board.....	556,561	Mar. 17	1965	459	74	1529
Sargent, James T., and A. Weiss, assignors to American Washboard Company, Cleveland, Ohio. Washboard.....	556,559	Mar. 17	1962	458	74	1529
Sargent, John H., et al. (See Locke, William F., assignor.)						
Sargent, Joseph B., Worcester, Mass. Game apparatus.....	565,235	Aug. 4	562	132	76	718
Sargent, Martin L., Wichita, Kans. Apparatus for distilling water.....	562,326	June 16	2216	539	75	1832
Sargent, William D., Chicago, Ill. Brake-shoe.....	555,975	Mar. 10	846	202	74	1308
Sargent, Wingate P., et al. (See Wiswell, Jacob C., assignor.)						
Sargentson, William, and J. Gilbert, Hadfield, England. Loom-shuttle.....	558,570	Apr. 21	1864	452	75	385
Sarratt, Heman J., assignor of one-half to F. P. O'Leary, Dobbs Ferry, N. Y. Sash-fastener.....	562,036	June 16	1733	419	75	1742
Sartorius, August, New York, N. Y. Moist colors.....	574,220	Dec. 29	3896	.....	77	2077
Sartwell, William E., Troy, Vt. Picker-stick check for looms.....	563,067	June 30	3526	847	75	2117
Sarver, John L., Piggott, Ark. Fence.....	568,073	Sept. 22	2354	568	76	1759
Sather, Theodore, assignor of one-half to M. L. Johnson, Worcester, Mass. Bicycle seat spring.....	561,440	June 2	678	166	75	1498
Sattelkau, Paul, and H. R. Winkelmann, Philadelphia, Pa. Apparatus for supplying locomotive-tenders with water.....	557,613	Apr. 7	148	39	75	29
Sattley, Archibald. (See Sattley, Marshall and A.)						
Sattley Manufacturing Company. (See Sattley, Marshall, assignor.)						
Sattley Manufacturing Company. (See Sattley and Heineke, assignors.)						
Sattley Manufacturing Company. (See Sattley, Marshall and A., assignors.)						
Sattley, Marshall, assignor to Sattley Manufacturing Company, Springfield, Ill. Trip-shank cultivator.....	553,691	Jan. 28	2152	509	74	444
Sattley, Marshall and A., assignors to Sattley Manufacturing Company, Springfield, Ill. Riding-cultivator.....	555,710	Mar. 3	382	88, 89	74	1198
Sattley, Marshall and A., assignors to Sattley Manufacturing Company, Springfield, Ill. Cultivator.....	560,754	May 26	2596	598	75	1245
Sattley, Marshall, and M. Heineke, assignors to Sattley Manufacturing Company, Springfield, Ill. Corn-planter.....	566,804	Sept. 1	114	28	76	1303
Sauce, Carl A. E. de la, Berlin, Germany. Apparatus for removal and transportation of refuse.....	570,060	Oct. 27	2358	{ 560 561 }	77	484

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Sander, Barbara. (See Liebreich, Käthie, assignor.)						
Sauer, Bernhard I., <i>et al.</i> (See Weishan, Louis, assignor.)						
Sauer, Frank N., <i>et al.</i> (See Weishan, Louis, assignor.)						
Sauerbrey, Richard, Stassfurt, Germany. Centrifugal crushing-mill.	569,238	Oct. 13	903	216	77	189
Saulcz, Cicely D., St. Paul, Minn. Belt-clasp	554,799	Feb. 18	1754	413	74	865
Saulsbury, Nehemiah R., Ridgely, Md. Fluxing-machine	569,062	Oct. 6	594	136	77	114
Saunders, Bertram H., Clifton, N. J., assignor of one-half to E. Bersbach, Brooklyn, N. Y. Trick-card	557,895	Apr. 7	646	155	75	122
Saunders, Cecil L., assignor to Cleveland Motor Company, Cleveland, Ohio. Street-car motor	556,105	Mar. 10	1100	262	74	1352
Saunders, Emmett A., New Haven, Conn. Rubber shoe	559,044	Apr. 28	2687	654	75	555
Saunders, James, <i>et al.</i> (See Raubhoff, John M., assignor.)						
Saunders, Lewis, Lawrence, Mass. Boiler	562,199	June 16	2009	486	75	1793
Saunders, Solomon. (See White, Moses H., assignor.)						
Saunders, William A. (See Dolph, Slack, and Saunders.)						
Sautter, William, <i>et al.</i> (See Lang, Robert A., assignor.)						
Sautter, Gaston, Paris, J. M. L. Savatier, and C. E. de Lagabbe, La Seyne, assignors to Sautter, Harlé & Co., Paris, France. Control system for electric motors	553,819	Jan. 28	2367	563 564	74	486
Sautter, Harlé & Co. (See Sautter, Savatier, and Lagabbe, assignors.)						
Savage, Stanley, Chicago, Ill. Ink-well	556,067	Mar. 10	1040	248	74	1341
Savage, William H., assignor of one-half to S. M. Morrison, Denver, Colo. Brake	569,476	Oct. 13	1293	304	77	260
Savage, Bernard G., and A. C. L. Longhran, Victor, Colo. Shaving-mug	573,240	Dec. 15	2029	486	77	1701
Savage, John T., assignor of one-half to W. B. Withauer, Middletown, Pa. Non-refilling bottle	572,120	Dec. 1	58	14	77	1289
Savage, Luman W. (See Hayles, John F., assignor.)						
Savage, Sol, <i>et al.</i> (See Mincer, Louis L., assignor.)						
Savage, S. S. (See Earl, David, assignor.)						
Savarese, Aniello. (See Calendoli, Vincenzo, assignor.)						
Savatier, Joseph M. L. (See Sautter, Savatier, and Lagabbe.)						
Savell, William B. (See Graham and Savell.)						
Savery, Thomas H. (See Pusey, Latimer, and Savery.)						
Savery, Thomas H., Wilmington, Del. Shake-frame for Fourdrinier paper-machines	568,211	Sept. 22	2598	625	76	1806
Savery, Thomas H., Wilmington, Del. Fourdrinier machine	568,373	Sept. 29	2874	691	76	1874
Savidge, William, Honolulu, Hawaii. Ruler	563,510	July 7	468	110	76	89
Saville, Clifford, New York, N. Y., assignor to W. Rigby, Hackensack, N. J. Weather-strip	565,038	Aug. 4	134	32	76	643
Savoie, Joseph, Central Falls, R. I. Inflator for pneumatic tires	556,777	Mar. 24	2334	550	74	1615
Savorgnan, Cora A. S. di B. (See Savorgnan, Detalmo di B., assignor.)						
Savorgnan, Detalmo di B., Rome, Italy. Mail-collecting pouch	567,920	Sept. 15	2040	489	76	1692
Savorgnan, Detalmo di B., Rome, Italy, assignor to C. A. S. di B. Savorgnan, Moruzzo, Italy, and New York, N. Y. Apparatus for and method of collecting and delivering mail-matter	561,819	June 9	1357	324 325 326 761	75	1650
Savorgnan, Detalmo di B., Rome, Italy, assignor to C. A. S. di B. Savorgnan, Moruzzo, Italy, and New York, N. Y. Coin-freed letter posting or stamping machine	562,854	June 30	3147	762 763 764	75	2040
Savorgnan, Detalmo di B., Rome, Italy, assignor to C. A. S. di B. Savorgnan, Moruzzo, Italy, and New York, N. Y. Mail receiving and collecting box	564,109	July 14	1542	362 363 666	76	303
Savorgnan, Detalmo di B., Rome, Italy, assignor to C. A. S. di B. Savorgnan, Moruzzo, Italy, and New York, N. Y. Coin-freed letter posting or stamping machine	564,845	July 28	2800	667 668 669	76	563
Savorgnan, Detalmo di B., Rome, Italy, assignor to C. A. S. di B. Savorgnan, Moruzzo, Italy, and New York, N. Y. Water-elevator	565,800	Aug. 11	1353	378 379	76	925
Savorgnan, Detalmo di B., Rome, Italy, assignor to C. A. S. di B. Savorgnan, Moruzzo, Italy, and New York, N. Y. Water-elevator	566,625	Aug. 25	3004	723 724	76	1237
Savery, Harlie J., Somerville, Mass. Machine for connecting electric conductors	554,541	Feb. 11	1306	307	74	763
Savery, Harlie J., Somerville, Mass. Machine for connecting electric conductors	554,836	Feb. 18	1824	427	74	880
Savery, Harlie J., Somerville, Mass. Machine for connecting electric conductors	555,403	Feb. 25	2844	671	74	1085
Sawhill, James T., <i>et al.</i> (See Woodard, Alvin N., assignor.)						
Sawin, Charles A., Waltham, Mass. Steam or hot-water heating apparatus	558,665	Apr. 21	2032	489	75	415
Sawyer, Edgar L., Perrysburg, Ohio. Metal tie	569,427	Oct. 13	1221	286	77	247
Sawyer, Harry, Muskegon, Mich. Tongs or grapple	569,939	Oct. 20	2148	508 509	77	432
Sawyer, Harry, Muskegon, Mich. Discharging mechanism for buckets, tongs, &c	573,708	Dec. 22	2926	692	77	1886
Sawyer, Henry D. (See Chaffee, Hoffman, and Green, assignors.)						
Sawyer, Howard D., and W. H. Colcord, Revere; said Sawyer assignor of part and said Colcord assignor to D. W. Wormwood, Chelsea, Mass. Heating apparatus	556,439	Mar. 17	1754	407	74	1491
Sawyer Spindle Company. (See Carroll, Edgar J., assignor.)						
Sawyer, Uriah P. (See Lee and Sawyer.)						
Sawyer, Victory L. (See Fuchs, Charles K., assignor.)						
Sawyer, William H., assignor to American Electrical Works, Providence, R. I. Electrical switch-conductor	571,539	Nov. 17	1974	470	77	1047
Saxer, Jacob P. J., Cleveland, Ohio. Paint-mixer	569,428	Oct. 13	1221	287	77	248
Saxon, Alfred, <i>et al.</i> (See Debombourg, Guillaume, assignor.)						
Saxon, George, <i>et al.</i> (See Debombourg, Guillaume, assignor.)						
Saxon, James, <i>et al.</i> (See Debombourg, Guillaume, assignor.)						
Saxton, Alfred R., Lahaska, and F. H. Reeder, Philadelphia, Pa. Platform	557,026	Mar. 24	2760	655	74	1696
Saxton, Augustus C., Bethel, Conn. Machine for rounding hat-bodies	557,896	Apr. 7	647	155 156	75	122
Saxton, Augustus C., Bethel, assignor of two-thirds to J. Dodd and C. F. Spencer, Danbury, Conn. Axle-cutter	554,034	Feb. 4	425	93, 94	74	583
Saxton, Augustus C., assignor of two-thirds to G. A. Kinner, Bethel, and W. E. Temple, Danbury, Conn. Locking bicycle-support	566,023	Aug. 18	1977	479	76	1027
Saybolt, George M., Jersey City, N. J., assignor to Standard Oil Company of New York, New York, N. Y. Refining hydrocarbon oils	565,039	Aug. 4	135	.....	76	643
Saybolt, George M., Jersey City, N. J., assignor to Standard Oil Company of New York, New York, N. Y. Refining petroleum distillates	565,040	Aug. 4	137	.....	76	643
Saylor, Benjamin F., Lancaster, Pa. Flying target	571,958	Nov. 24	2722	643	77	1208
Saylor, Franklin G., Boston, Mass. Grate	563,986	July 14	1317	307 308	76	260
Sayre, Robert S., Talladega, Ala. Fence	557,027	Mar. 24	2761	655	74	1696

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Sayre, S. H. (See Little, Edwin, assignor.)						
Sayre, Thomas E., Janesville, Wis. Box-fastener	564,315	July 21	1899	448	76	381
Scaife, Charles C. (See Scaife and Moeckel, assignors.)						
Scaife, Frank B., Philadelphia, Pa. Toy	555,740	Mar. 3	435	102	74	1207
Scaife, James V. (See Davidson, John M., assignor.)						
Scaife, William B., Allegheny, and G. A. Moeckel, Oakmont, assignors to C. C. Scaife, Allegheny, Pa. Punching and riveting machine	574,173	Dec. 29	3785	903	77	2058
Scaife, William L., Allegheny, Pa. Coal-washer	570,232	Oct. 27	2666	634	77	544
Scam, Solomon, and J. Muth, South Norwalk, Conn. Bottle-washer	563,068	June 30	3528	847	75	2118
Scamman, Charles F., Deering, Me. Machine for forming match-cards	560,939	May 26	2943	675	75	1311
Scammell, Luther R., Adelaide, South Australia. Obtaining eucalyptol	557,431	Mar. 31	3482		74	1853
Scannell, Daniel J., et al. (See Jacobson, Edward B., assignor.)						
Scannell, Michael L., et al. (See Jacobson, Edward B., assignor.)						
Scarborough, Henry G., Bishopville, S. C. Hat-fastener	562,556	June 23	2602	631	75	1918
Scarlett, John B. (See Larter, Robert, assignor.)						
Scarr, Abraham C., Harriston, Canada. Can-opener	565,094	Aug. 4	249	60	76	662
Scarr, Fannie H., Oneonta, N. Y. Sleeping-sack	569,521	Oct. 13	1385	327	77	277
Scettrini, George H., and H. K. Bridger, London, England; said Scettrini assignor to said Bridger. Sewing-machine	571,053	Nov. 10	1130	265	77	878
Schaab, John J., St. Louis, Mo. Stovepipe-thimble	555,267	Feb. 25	2606	611	74	1039
Schaake, Henry, San Francisco, Cal. Combined crimping and heading machine	557,028	Mar. 24	2762	656	74	1696
Schaake, Henry, San Francisco, Cal. Drying apparatus for cans	557,029	Mar. 24	2764	656	74	1696
Schaake, Henry, San Francisco, Cal. Can-body-soldering machine	563,069	June 30	3530	848 849 850 851 852 853 854 384 355	75	2118
Schaake, Henry, San Francisco, Cal. Can-cooling machinery	564,163	July 14	1647	384 355	76	322
Schaake, Henry, San Francisco, Cal. Attachment for feed mechanism of seaming-machines	566,097	Aug. 18	2096	511	76	1048
Schaap, Alexander K., assignor to S. R. Crowder, Richmond, Va. Base-ball-game-illustrating apparatus	558,571	Apr. 21	1865	453	75	385
Schacht, Edward L., Chicago, Ill. Door-check	573,300	Dec. 15	2149	515	77	1722
Schacht, George. (See Guernier and Schacht.)						
Schacke, Gustav, Augsburg, Germany. Hop-strainer	558,572	Apr. 21	1868	453	75	366
Schade, Edmund A. (See Traut and Schade.)						
Schade, Edmund A., et al. (See Riecker, Charles E., assignor.)						
Schade, Henry. (See Schade, John, assignor.)						
Schade, John, assignor to H. Schade, Brooklyn, N. Y. Roller-skate	571,690	Nov. 17	2214	533	77	1091
Schade, Julius, Los Angeles, Cal. Fluid-motor	552,872	Jan. 7	700	170	74	132
Schaefer, August C., and H. J. Gray, St. Paul, Minn. Drive-chain and chain-wheel	566,230	Aug. 18	2310	566	76	1089
Schaefer, Edward. (See O'Brien and Schaefer.)						
Schaefer, George W., St. Louis, Mo. Fence for graves	557,030	Mar. 24	2766	657	74	1697
Schaefer, Theodore, Blackburn, Missouri. Ratchet-wrench	566,229	Aug. 18	2309	565	76	1089
Schaefer, Wilhelm. (See Lutz and Schaefer.)						
Schaefer, Arthur D., and C. H. Dale, Hartford City, Ind. Wood-pulp grinder	572,572	Dec. 8	850	204	77	1459
Schaeffer & Budenberg. (See Prismsann, Carl H., assignor.)						
Schaeffer, Henry, assignor of one-third to N. J. and C. B. Heading, Farmington, Iowa. Car-coupling	567,866	Sept. 15	1968	472	76	1678
Schaer, Arnold, Warren, R. I. Yarn-numbering scale-beam	566,872	Sept. 1	229	53	76	1326
Schaetzle, Charles. (See Pryor and Schaetzle.)						
Schäfer, Carl. (See Wander, Frank G., assignor.)						
Schäfer, Julius, Bonn, Germany. Closure of bottles for sterilizing purposes	558,848	Apr. 21	2332	567	75	472
Schäfer, Wilhelm, and A. Heinemann, assignors, by mesne assignments, to Internationale Electricitätswerke und Accumulatoren-Fabrik Actien-Gesellschaft, Berlin, Germany. Electrode for electrical apparatus	566,231	Aug. 18	2312		76	1089
Schaffer, Louis, et al. (See Lent, Cyrenus W., assignor.)						
Schaffer, Morse B., St. Louis, Mo., assignor to American Steel Bolster Company, Madison county, Ill. Railway-car	562,037	June 16	1734	420	75	1742
Schaffitzel, Frederick. (See Bayer, Nuess, and Schaffitzel.)						
Schallenberg, Stephan, Fort Wayne, Ind. Sliding car-door	573,486	Dec. 22	2515	596	77	1808
Schaller, Michael D., Lowell, N. Y. Wrench	573,487	Dec. 22	2517	596	77	1808
Schalles, Charles, Cortez, Colo. Rim-clamp for wheels	559,612	May 5	447	105	75	769
Schantz, Louis. (See Fischer and Schantz.)						
Schaper, William C., St. Louis, Mo. Match-safe	554,736	Feb. 18	1651	389	74	845
Schaper, William C., St. Louis, Mo. Match-receptacle	573,422	Dec. 15	2375	567	77	1764
Scharfe, Robert, Aurora, Ill. Roller-bearing	563,943	July 14	1241	290	76	246
Scharrer, Carl, Heidenheim-on-the-Brenz, Germany. Carpet-cleaner	559,498	May 5	257	60	75	731
Scharrer, Carl, Heidenheim-on-the-Brenz, Germany. Machine for cleaning carpets	571,981	Nov. 24	2759	651	77	1214
Schatsiek-Baecker Building Company. (See Brown, William Z., assignor.)						
Schatz, Adam E., New York, N. Y. Electric towing apparatus	572,377	Dec. 1	536	127	77	1380
Schatz, Adolf, New Haven, Conn. Parallel-jaw pliers	557,615	Apr. 7	151	39	75	30
Schatz, Adolf, New Haven, Conn. Parallel-jaw pliers	571,021	Nov. 10	1081	253	77	868
Schau, Phillip, Cooper, Mich. Bicycle-tire	557,151	Mar. 31	2965	709	74	1759
Schaub, Ferdinand, assignor to F. G. Otto & Sons, Incorporated, Jersey City, N. J. Note projection for musical instruments	567,007	Sept. 1	485	112	76	1373
Schauer, Edward J., Chicago, Ill., assignor to Pennsylvania Globe Gas Light Company, of Pennsylvania. Incandescent burner	558,461	Apr. 14	1680	404	75	334
Schaum, Otto W., Philadelphia, Pa. Hydro-extractor	552,550	Jan. 7	80	22	74	18
Schaum, Otto W., Philadelphia, Pa. Shedding mechanism for looms	562,557	June 23	2603	632	75	1918
Schaum, Otto W., Philadelphia, Pa. Jacquard mechanism for looms	563,313	July 7	137	32	76	29
Schaum, Otto W., Philadelphia, Pa. Shuttle-box motion for looms	573,488	Dec. 22	2519	597	77	1808
Schauman, Bror M., New York, N. Y. Ash-sifter	561,947	June 9	1575	382	75	1692
Schay, Martin H., Tacoma, Wash. Screw-driver	568,460	Sept. 29	3022	726	76	1902
Scheer, Emil J. (See Ruffhead and Scheer.)						
Scheerer, Wilhelm, Tuttingen, Germany. Scissors or shears	556,440	Mar. 17	1755	408	74	1491
Scheerer, Wilhelm, Tuttingen, Germany. Syringe	562,425	June 23	2383	580	75	1879
Scheerer, Wilhelm, assignor to Actien-Gesellschaft für Fein Mechanik, vormals Jetter & Scheerer, Tuttingen, Germany. Bottle-closure	570,342	Oct. 27	2906	689	77	587
Scheetz, Henry D., et al. (See Schwechler and Ingram, assignors.)						
Schefbauer, Rupert, assignor to Auerbach-Woolverton Electric Company, Hoboken, N. J. Electric-arc lamp	555,621	Mar. 3	232	55	74	1172

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Scheffbauer, Rupert, assignor to Auerbach-Woolverton Electric Company, Hoboken, N. J. Electric-arc lamp	568,798	Oct. 6	147	35	77	30
Scheffer, David M., assignor of one-half to W. D. Jennings, New Castle, Ind. Variable gearing	552,551	Jan. 7	81	22	74	18
Scheid, Adam, Harrison, N. J. Shuttle-box-operating mechanism for looms	552,720	Jan. 7	386	101 102	74	75
Scheid, Adam, Harrison, N. J. Rock-drill	555,128	Feb. 25	2368	563	74	995
Scheid, Adam, Harrison, N. J. Spindle-support	555,129	Feb. 25	2370	563	74	996
Scheid, Adam, Harrison, N. J. Car-fender	557,897	Apr. 7	649	156 157	75	122
Scheid, Adam, Harrison, N. J. Spindle-support	561,345	June 2	503	196	75	1466
Scheid, Adam, Harrison, assignor to R. Atherton, Paterson, N. J. Dobbie for looms	554,314	Feb. 11	926	213	74	692
Scheid, Adam, Harrison, and R. Atherton, Paterson, N. J. Warp-beaming machine	561,344	June 2	501	126	75	1466
Scheidler, John, assignor to E. W. Treat, Cold water, Mich. Thill-coupling	560,007	May 12	1205	268	75	924
Scheidler, Reinhard, Newark, Ohio. Link-motion valve-gear	562,921	June 30	3264	788	75	2064
Schell, Louis B., San Antonio, Fla. Strawberry-planter	558,490	Apr. 21	2333	568	75	472
Schellenbach, William L., Liberty, Ind. Engine-lathe	557,031	Mar. 24	2767	657	74	1697
Scheller, Hermann, Berlin, Germany. Ash-cart	552,589	Jan. 7	148	40	74	29
Schenck, Charles J., Gila Bend, assignor of one-half to A. C. Langlotz, San Simon, Ariz. Ter. Plate for railway-rails	565,801	Aug. 11	1556	379	76	925
Scheuck, Henry, Pittsburg, Pa. Drying apparatus for clothes	558,423	Apr. 14	1600	390	75	319
Schenck, Samuel H., Zionsville, Ind. Combined camp-stool and cot	571,579	Nov. 17	2038	485	77	1059
Schenck, William M., and J. F. Helton, Kansas City, Mo. Well boring and drilling apparatus	554,315	Feb. 11	927	213	74	692
Schenck, Nicholas, St. Louis, Mo. Correct-position attainer for violin-players	556,216	Mar. 10	1304	305	74	1390
Schenker, Francis, Vincennes, Ind. Inkstand	571,401	Nov. 17	1725	410	77	1002
Schermerhorn, Herschel A., Waterman, Ill. Cover-holder for culinary pots or kettles	572,774	Dec. 8	1215	294	77	1528
Scherer, Franz, Essen-on-the-Ruhr, Germany. Safety-window in shape of a ladder	573,165	Dec. 15	1892	455	77	1677
Schertzinger, Charles. (See Reazor, William N., assignor.)						
Scheuer & Bros. (See Bruning and Ross, assignors.)						
Scheuer, Joseph F., Milwaukee, Wis. Cash register and recorder	569,674	Oct. 20	1671	395 396 397	77	347
Scheuer, Max, New York, N. Y. Belt-slide	567,692	Sept. 15	1671	402	76	1620
Schiefer, Andrew, Fernbank, Ohio. Drilling-machine	561,346	June 2	505	126 127	75	1467
Schieffer, Adam, New York, N. Y. Clock-case	560,113	May 12	1418	319	75	964
Schieffler, Fred, West Bay City, Mich. Pneumatic signaling apparatus	571,315	Nov. 10	1590	57	77	963
Schiele, Frank C., Chicago, Ill. Pipe-coupling	556,106	Mar. 10	1101	262	74	1353
Schier, Oscar B., Baltimore, Md. Pasteurizing apparatus	562,038	June 16	1736	420	75	1742
Schierholz, August H., San Francisco, Cal. Air-valve for water-pipes	557,343	Mar. 31	3327	799	74	1823
Schiff, Roberto, Pisa, Italy, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Salicylic compound and making same	569,429	Oct. 13	1223		77	248
Schifferly, Conrad, Fort Wayne, Ind. Thill-support	554,202	Feb. 4	728	165	74	638
Schild, Charles C., et al. (See Schild, Frank L., assignor.)						
Schild, Frank L., Grand Rapids, assignor of two-thirds to C. C. and P. J. Schild, Ionia, Mich. Sprinkling device	561,286	June 2	396	99	75	1447
Schild, Peter J., et al. (See Schild, Frank L., assignor.)						
Schiller, Abraham L., Scranton, Pa. Sash locking and operating device	561,820	June 9	1361	326	75	1651
Schiller, Adolf, Godesberg, Germany. Device for sealing jars or other vessels	553,543	Jan. 28	1901	450	74	400
Schilling, Frederick. (See Schilling, Gustav A. and F.)						
Schilling, Gustav A. and F., Chicago, Ill. Curb and gutter	567,173	Sept. 8	779	183	76	1441
Schiltz, John P. (See Bowen, William J., assignor.)						
Schimke, Louis, Massillon, Ohio. Can-filler for artificial-ice plants	564,651	July 28	2476	584	76	505
Schimpl, Andrew M., and J. C. Schwanengel, Dayton, Ohio. Stovepipe-thimble	558,525	Apr. 21	1791	435	75	372
Schimmel, Fridolin, and S. F. Nelson, Faribault, Minn. Vertical grand piano	560,431	May 19	1999	456 457 458	75	1119
Schimmel, Gustav R., Detroit, Mich. Hypodermic syringe	563,621	July 7	648	151	76	122
Schimpff, Hugo, Halle-on-the-Saale, Germany. Seed-drill	558,526	Apr. 21	1792	435 436	75	372
Schindel, Samuel M., Hagerstown, Md. Harness	557,432	Mar. 31	3483	834	74	1853
Schindel, Samuel M., Hagerstown, Md. Vehicle	558,002	Apr. 7	874	220 221	75	164
Schindel, Samuel M., Hagerstown, Md., assignor of one-half to H. C. Williams, Trenton, N. J. Indation-valve	566,811	Sept. 1	122	30	76	1304
Schindler, Charles, Toledo, Ohio. Capsule-filling machine	566,098	Aug. 18	2098	512	76	1048
Schindler, Franz, Habelschwerdt, Germany. Tailor's measure	559,045	Apr. 28	2688	655	75	556
Schindler-Jenny, Friedrich W. (See Stotz and Schindler-Jenny.)						
Schindler-Jenny, Friedrich W., Kennelbach, Austria-Hungary. Electric boiler	559,223	Apr. 28	3066	740	75	627
Schindler-Jenny, Friedrich W., Kennelbach, Austria-Hungary. Electric cigar-lighter	565,571	Aug. 11	1148	276 277	76	848
Schindler-Jenny, Friedrich W., Kennelbach, Austria-Hungary. Electric boiling apparatus	573,042	Dec. 15	1673	402	77	1637
Schindler, Martin, Neuhausen, Switzerland. Electric furnace	573,041	Dec. 15	1672	401 402	77	1636
Schinke, Max G., Milwaukee, Wis. Submerged pipe	566,410	Aug. 25	2646	646	76	1168
Schipkowsky, Julius, assignor of one-half to W. F. Hatch, South Milwaukee, Wis. Air-valve for pneumatic tires	559,813	May 12	826	194	75	853
Schippang & Wehenkel. (See Fries, Oskar, assignor.)						
Schirmer, Richard C., Philadelphia, Pa. Legato attachment for pianos	558,524	Apr. 21	1790	435	75	372
Schirra, Julius, Pittsburg, Pa. Seal-lock	570,061	Oct. 27	2360	561	77	485
Schisler, George, Mansfield, Ohio. Water-tube boiler	569,239	Oct. 13	904	216	77	189
Schlagenhauser, Charles. (See Blumer and Schlagenhauser.)						
Schlegel, Robert, San Francisco, Cal. Rotary engine	572,127	Dec. 1	59	14	77	1289
Schleicher, Charles, Louisville, Ky. Car-coupling	561,527	June 2	840	202	75	1528
Schleicher, Charles, assignor of one-half to J. H. Sumser, Louisville, Ky. Car-coupling	561,528	June 2	842	203	75	1529
Schleicher, Charles, assignor of one-half to J. H. Sumser, Louisville, Ky. Car-coupling	573,043	Dec. 15	1674	402	77	1637
Schleicher, Robert, Louisville, Ky. Woodworking-machine	569,940	Oct. 20	2151	509 510	77	433
Schleicher, Schumm & Co. (See Winand, Paul A. N., assignor.)						
Schleicher, William A., Cleveland, Ohio. Snap for harness	563,071	June 30	3562	855	75	2124
Schlesinger, Louis. (See Rogginger, John, assignor.)						
Schlesinger, William M., assignor, by mesne assignments, to A. H. Williams, Philadelphia, Pa. Electric railway	553,264	Jan. 21	1409	343	74	293

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Schlesinger, William M., assignor to J. I. McDuffee, trustee, Philadelphia, Pa. Electric railway.	561,821	June 9	1362	{ 326 327 }	75	1651
Schlesser, George E. (See Campbell and Schlesser.)						
Schlicht & Field Co. (See Selden, George B., assignor.)						
Schlicht, Paul J., Summit, N. J., assignor to E. F. Eldredge, New York, N. Y. Art of and apparatus for producing combustion.	556,280	Mar. 10	1451	339	74	1417
Schlicht, Paul J., Summit, N. J., assignor to E. F. Eldredge, New York, N. Y. Apparatus for producing combustion.	556,281	Mar. 10	1457	340	74	1418
Schlicht, Paul J., Summit, N. J., assignor to E. F. Eldredge, New York, N. Y. Apparatus for producing combustion.	556,282	Mar. 10	1458	340	74	1419
Schlicht, Paul J., Summit, N. J., assignor to E. F. Eldredge, New York, N. Y. Apparatus for producing combustion.	556,283	Mar. 10	1461	340	74	1419
Schlicht, Paul J., Summit, N. J., assignor to E. F. Eldredge, New York, N. Y. Apparatus for producing combustion.	556,284	Mar. 10	1463	341	74	1420
Schlicht, Paul J., Summit, N. J., assignor to E. F. Eldredge, New York, N. Y. Attachment for application to apparatus for producing combustion.	556,285	Mar. 10	1466	341	74	1420
Schlicht, Paul J., Summit, N. J., assignor to E. F. Eldredge, New York, N. Y. Attachment for application to apparatus for producing combustion.	556,286	Mar. 10	1469	342	74	1421
Schlichting, Henry, Camden, N. J. Hasp-fastener.	574,276	Dec. 29	3997	949	77	2096
Schliedner, Augustus E., Sioux City, Iowa. Kitchen implement.	561,135	June 2	102	28	75	1387
Schlieper, John E., Pittsburg, Pa., assignor to Stirling Company, Chicago, Ill. Boiler.	556,697	Mar. 17	2169	507	74	1568
Schlieper, John E., Pittsburg, Pa., assignor to Stirling Company, Chicago, Ill. Boiler.	556,698	Mar. 17	2170	507	74	1568
Schlimp, Carl, Vienna, Austria-Hungary, and R. Charouzek, Niedersiedlitz, near Dresden, Germany. Hydraulic press.	573,710	Dec. 22	2929	692	77	1887
Schlivinski, Hyman, Brooklyn, assignor of one-half to S. Bernstein, New York, N. Y. Divided skirt.	564,292	July 21	1861	435	76	374
Schloer, Frederick J., Trenton, N. J. Curtain pole and fixture.	572,687	Dec. 8	1054	256	77	1499
Schloss, Joseph W., New York, N. Y. Braid-rack and show-case.	556,068	Mar. 10	1040	248	74	1341
Schloss, Meyer W., New York, N. Y., assignor to Automatic Wrapping Machine Company, of New York. Parcel-wrapping machine.	566,540	Aug. 25	2891	705	76	1214
Schloss, Meyer W., New York, N. Y., assignor to Automatic Wrapping Machine Company, of New York. Parcel-wrapping machine.	574,174	Dec. 29	3786	{ 903 904 }	77	2058
Schlossmann, Paul. (See Herforth, Gustav R., assignor.)						
Schlotfeldt, Heinrich, Kiel, Germany. Speed-indicator.	574,076	Dec. 29	3586	{ 856 857 }	77	2023
Schlumberger, Theodore. (See Bronnert, Emile, assignor.)						
Schlundt, Charles. (See Ford and Schlundt.)						
Schlutter, John, Baltimore, Md. Spring-hinge.	567,727	Sept. 15	1732	415	76	1632
Schlutter, John, Baltimore, Md. Door-hanger.	568,171	Sept. 22	2533	{ 609 610 }	76	1794
Schmachtenberg, William, New York, N. Y. Pocket-knife.	553,430	Jan. 21	1698	405	74	345
Schmackers, Anton, assignor of one-half to W. B. Anderson, Dayton, Ohio. Street-railway switch.	567,921	Sept. 15	2041	{ 489 490 }	76	1692
Schmaltz, Mike, Bay City, Mich. Thrust-bearing.	564,537	July 21	2263	531	76	447
Schmeisser, Louis, Suhl, assignor to T. Bergmann, Gaggenau, Germany. Gas-operated firearm.	561,617	June 9	993	238	75	1583
Schmick, Henry J., assignor of three-eighths to F. R. Wagner, Hamburg, and J. M. Kutz, Mahanoy City, Pa. Combined freight and dumping car.	559,222	Apr. 28	3065	740	75	627
Schmid, Albert, assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Electric machine.	569,802	Oct. 20	1915	455	77	389
Schmid, Charles, assignor of one-half to G. Farnsworth, Chicago, Ill. Valve mechanism for steam-engines.	554,145	Feb. 4	634	143	74	621
Schmid, Jakob, assignor to Society of Chemical Industry in Basle, Basle, Switzerland. Blue dye.	557,435	Mar. 31	3488	.....	74	1854
Schmid, Jakob, assignor to Society of Chemical Industry in Basle, Basle, Switzerland. Blue dye.	557,436	Mar. 31	3489	.....	74	1854
Schmid, Jakob, assignor to Society of Chemical Industry in Basle, Basle, Switzerland. Black trisazo dye.	557,437	Mar. 31	3490	.....	74	1854
Schmid, Jakob, assignor to Society of Chemical Industry in Basle, Basle, Switzerland. Blue dye.	557,438	Mar. 31	3491	.....	74	1855
Schmid, Jakob, assignor to Society of Chemical Industry in Basle, Basle, Switzerland. Polyazo black dye.	557,439	Mar. 31	3492	.....	74	1855
Schmid, Jakob, assignor to Society of Chemical Industry in Basle, Basle, Switzerland. Blue-black disazo dye.	557,440	Mar. 31	3492	.....	74	1855
Schmid, Jakob, and K. Jedlicka, assignors to Society of Chemical Industry in Basle, Basle, Switzerland. Dark-green dye.	562,200	June 16	2010	.....	75	1793
Schmidt, Albert E., Brooklyn, N. Y. Puzzle.	564,846	July 28	2808	660	76	564
Schmidt, Alois, St. Paul, Minn. Basket.	571,605	Nov. 17	2081	590	77	1066
Schmidt, Andrew R., and J. Lowry, Ann Arbor, Mich. Thill-coupling.	557,707	Apr. 7	321	77	75	61
Schmidt, Charles G., Cincinnati, Ohio. Ice-hoist.	553,544	Jan. 28	1901	450	74	400
Schmidt, Charles R., Baltimore, Md. Pipe connection for water-closet bowls.	556,215	Mar. 10	1303	304	74	1390
Schmidt, Charles R., Baltimore, Md. Flexible elbow for connecting pipes.	561,441	June 2	680	166	75	1493
Schmidt, Charles R., Baltimore, Md. Flexible elbow for connecting pipes.	561,442	June 2	681	167	75	1493
Schmidt, Charles R., Baltimore, Md. Faucet.	572,911	Dec. 8	1426	344	77	1572
Schmidt, Edward D., Cuyahoga Falls, Ohio. Furniture-caster.	569,842	Oct. 20	1978	470	77	401
Schmidt, Ernest, Berlin, Germany. Electric gas-lighting device.	571,288	Nov. 10	1542	366	77	954
Schmidt, Frederick A., Washington, D. C. Tablet.	565,511	Aug. 11	1050	252	76	830
Schmidt, Frederick M. (See Gerry and Schmidt.)						
Schmidt, Frederick M., Brooklyn, N. Y. Electromagnetic motor.	560,652	May 26	2429	556	75	1212
Schmidt, George A., Brooklyn, N. Y., assignor to A. T. Enos, Englewood, N. J. Electric-light fixture.	570,411	Oct. 27	3032	718	77	611
Schmidt, Hulda E., Silverton, Ohio. Milk-can.	569,770	Oct. 20	1863	441	77	379
Schmidt, Joseph, New York, N. Y. Electric-lamp hanger.	561,443	June 2	681	167	75	1498
Schmidt, Joseph, New York, N. Y. Post-fastening.	568,629	Sept. 24	3348	802	76	1961
Schmidt, Julius, Munich, Germany. Color-mill.	557,150	Mar. 31	2964	709	74	1759
Schmidt, Lulu. (See Dellinger, Thomas G., assignor.)						
Schmidt, Robert, Lindau, Germany. Telescope in combination with compasses.	567,867	Sept. 15	1969	{ 472 473 }	76	1678
Schmidt, Theodore F. W., Dayton, assignor to C. W. Bell, Cincinnati, Ohio. Collapsible box.	571,691	Nov. 17	2215	533	77	1092
Schmidt, Wilhelm, Wilhelmshöhe, Germany. Outlet-valve for steam-engines.	562,039	June 16	1738	421	75	1743
Schmidt, Wilhelm, Ballenstadt, Germany. Flame-tube boiler.	565,041	Aug. 4	138	32	76	643
Schmidt, Wilhelm, Ballenstadt, Germany. Feed-water heater.	572,573	Dec. 8	851	{ 204 205 }	77	1450

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Schmidt, Wilhelm, Ballenstedt, and G. Henkel, Wilhelmshöhe, Germany. Steam-boiler with superheater	558,210	Apr. 14	1239	{ 302 303 }	75	251
Schmied, Wenzel H. B., assignor of one-half to H. Brown, Napa, Cal. Bottle	566,873	Sept. 1	230	53	76	1326
Schmiedeberg, Oswald, Strassburg, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Obtaining iron derivatives of albumen	566,280	Aug. 18	2384	.....	76	1102
Schmiedl, Anton J., Philadelphia, Pa., assignor to E. B. Jordan, Brooklyn, N. Y. Leather-beading machine	564,538	July 21	2264	531	76	447
Schmitt, Charles, Cincinnati, Ohio. Back for picture or mirror frames	555,186	Feb. 25	2460	583	74	1013
Schmitt, John B., Pittsburg, Pa. Plumber's tack	553,021	Jan. 14	975	236	74	196
Schmitt, John S., New York, N. Y. Invalid-bed	557,614	Apr. 7	150	39	75	30
Schmitt, Leonard C., New York, N. Y. Barrel-washer	556,377	Mar. 17	1634	383	74	1467
Schmittz, George A., Brooklyn, N. Y. Automatic switch	552,622	Jan. 7	203	56	74	40
Schmitz, Frank, Chicago, Ill. Banana-shipping case	563,070	June 30	3561	855	75	2124
Schmitz, Gustav A., Hanover, Germany. Device for feeding oxygen or carbonic acid in circulating bathing waters	573,927	Dec. 29	3305	790	77	1972
Schmueser, Charles W., New Castle, Colo. Vehicle-jack	559,224	Apr. 28	3067	740	75	628
Schnebelin, Fred, and O. Striegel, Mascoutah, Ill. Lathe steady-rest	563,418	July 7	305	69	76	60
Schneberger, John, and V. Kotva, Chicago, Ill. Egg-tester	569,941	Oct. 20	2155	{ 510 511 }	77	433
Schneer, Isaac, New York, N. Y. Shirt-waist	566,940	Sept. 1	354	83	76	1350
Schneible, Joseph, New York, N. Y. Aspirator	571,692	Nov. 17	2216	534	77	1092
Schneible, Joseph, New York, N. Y. Apparatus for charging liquids with gas	571,694	Nov. 17	2219	{ 534 535 }	77	1093
Schneible, Joseph, Brooklyn, N. Y., assignor to Joseph Schneible Company, Jersey City, N. J. Pressure-regulator	559,221	Apr. 28	3063	739	75	627
Schneible, Joseph, New York, N. Y., assignor to Joseph Schneible Company, New York, N. Y., and Jersey City, N. J. Manufacture of fermented liquors	571,693	Nov. 17	2218	534	77	1092
Schneidawind, Andrew H., South Hadley Falls, Mass. Machine for marbling paper	557,433	Mar. 31	3424	835	74	1853
Schneider, Adolph F., Castell, Tex. Car-coupling	568,799	Oct. 6	150	35	77	31
Schneider, Albert F. (See Szontagh and Schneider.)						
Schneider, Carl, et al. (See Schwechler and Ingram, assignors.)						
Schneider, Charles, New York, N. Y. Steam-valve	570,609	Nov. 3	323	80	77	698
Schneider & Co. (See Schneider, Henri, assignor.)						
Schneider, Friedrich W., Triberg, Germany. Paste-carrying plate for electric accumulators	564,652	July 28	2476	584	76	505
Schneider, Fritz, Erie, Pa. Lathe	571,402	Nov. 17	1726	{ 410 411 }	77	1003
Schneider, Henri, Creuzot, France. Steel alloy	560,150	May 12	1476	.....	75	975
Schneider, Henri, Creuzot, France. Breech mechanism for rapid-fire guns	562,666	June 23	2792	{ 678 679 }	75	1955
Schneider, Henri, Paris, assignor to Schneider & Co., Creuzot, France. Breech mechanism of quick-firing guns	561,444	June 2	682	{ 167 168 169 }	75	1459
Schneider, Henry. (See Curtis and Schneider.)						
Schneider, Jacob M. (See Stump, Ira E., assignor.)						
Schneider, John B. (See Wiget and Schneider.)						
Schneider, John J., assignor to Heinz & Munschauer, Buffalo, N. Y. Refrigerator	563,889	July 14	1143	268	76	329
Schneider, Joseph E., Lancaster, Cal. Device for securing horses while shoeing	556,778	Mar. 24	2335	550	74	1615
Schneider, Michael B., New Castle, Pa. Axle-box	558,211	Apr. 14	1240	303	75	252
Schneider, Sidney, assignor, by mesne assignments, to S. Schneider and A. Fritsch, St. Louis, Mo. Cam	555,334	Mar. 3	84	19	74	1146
Schneider, William, St. Louis, Mo. Shoe	564,767	July 28	2677	636	76	541
Schneider, William J., Milwaukee, Wis. Culinary device	554,316	Feb. 11	930	214	74	692
Schnigge, Oscar, Berlin, Germany. Regenerating-furnace, &c.	554,499	Feb. 11	1245	291	71	751
Schnorberger, Charles, Fort Wayne, Ind. Combined ruler and marker	567,616	Sept. 15	1541	372	76	1594
Schnorr, Julius, Woodbury, N. J. String-bearing for pianos	572,032	Nov. 24	2841	669	77	1229
Schöche, Adolf. (See Patzelt and Schöche.)						
Schock, Gustav, New York, N. Y. Barrel-washer	570,610	Nov. 3	325	80	77	699
Schodorf, Andrew C., Galloway, Ohio. Shoeing-rack	574,115	Dec. 29	3657	873	77	2035
Schoeffel, George J. (See Colgate, Arthur E., assignor.)						
Schoeffel, George J. (See Ongley, Charles E., assignor.)						
Schoen, Charles T., Philadelphia, Pa. Built-up pressed-steel truck-frame	553,431	Jan. 21	1699	405	74	345
Schoen, Charles T., Philadelphia, Pa. Metallic truck-frame	563,072	June 30	3563	{ 855 856 }	75	2124
Schoen, Charles T., Philadelphia, Pa. Bolster for railway-cars	568,925	Oct. 6	351	81	77	67
Schoen, Charles T., Philadelphia, Pa. Pressed-steel truck-frame for railway-cars	571,934	Nov. 24	2683	635	77	1200
Schoen, Charles T., Philadelphia, Pa. Bolster for railway-cars	574,116	Dec. 29	3659	{ 873 874 }	77	2036
Schoenberg, Ralph A., J. W. Flucker, and A. N. Keedwell, New York, N. Y. Electrical lighting apparatus	557,434	Mar. 31	3487	835	74	1-54
Schoene, Josef, Berlin, assignor to Wisemann & Co., Cassel, Germany. Powder-insufflator	566,411	Aug. 25	2647	616	76	1169
Schoener, Frank. (See Thomas, Conover A., assignor.)						
Schoenfelder, August, Brenham, assignor to F. W. Schuereburg, Washington county, Tex. Sweep	559,814	May 12	827	194	75	853
Schoenfelder, Emil P., and E. Kehle, Newark, N. J. Self-toning sensitive photographic paper	560,755	May 26	2597	.....	75	1245
Schoenfelder, Emil P., and E. Kehle, Newark, N. J. Self-toning sensitive photographic paper	560,756	May 26	2598	.....	75	1245
Schoenfelder, Paul E., and E. Kehle, Newark, N. J. Self-toning sensitive photographic paper	568,496	Sept. 29	3086	.....	76	1913
Schoeppel, Joseph F., Pittsburg, Pa. Hook and eye	558,616	Apr. 21	1940	470	75	399
Schoeppel, Joseph F., and W. E. Heeren, Pittsburg, Pa. Hook and eye	558,115	Apr. 14	1063	{ 265 266 }	75	222
Schofer, George E., assignor to Reading Hardware Company, Reading, Pa. Door-knob	555,906	Mar. 3	712	172	74	1262
Schofield, Albert B., Brooklyn, N. Y. Storage-receptacle	571,844	Nov. 24	2510	594	77	1167
Schofield, Albert B., Brooklyn, N. Y. Storage-receptacle	571,845	Nov. 24	2511	594	77	1167
Schofield, James D., Dallas, Tex. Sight-feed for planters	552,552	Jan. 7	83	23	74	18
Schofield, Samuel S., and H. E. Haddock, Philadelphia, Pa. Sand-box for cars	568,497	Sept. 29	3088	744	76	1914
Schofield, Silas C., Freeport, Ill. Frame for grindstones	555,586	Mar. 3	172	40	74	1161
Schofield, Silas C., Freeport, Ill. Corn-harvester	562,979	June 30	3369	815	75	2091
Schofield, Thomas F., Duluth, Minn. Puzzle	552,721	Jan. 7	390	102	74	76
Scholer, Gustave A., assignor of one-half to J. C. Stutz, Spokane, Wash. Chuck for watch-crowns	553,265	Jan. 21	1412	343	74	294
Scholl, Adam, Murray, Iowa. Double-action force-pump	568,800	Oct. 6	151	35	77	31

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Scholtz, Maximilian M. (See Little, Orton C., assignor.)						
Scholz, Jos. (See Strecker, Otto C., assignor.)						
Scholz, Max. D. J. O'Connor, and R. J. Bremner, Chicago, Ill. Weighing-machine.....	557,237	Mar. 31	3140	753	74	1786
Schönbach, Victor. Carolinenthal, Austria-Hungary. Hydraulic riveter.....	558,850	Apr. 21	2335	568	75	472
Schönfeld, Wilhelm A. H., Weissensee, Germany. Refrigerator.....	564,719	July 28	2581	611	76	525
Schoonmaker, John D., Chicago, Ill., assignor to Lenox Manufacturing Company, Jersey City, N. J. Work-moving attachment for sewing-machines.....	571,459	Nov. 17	1825	435	77	1021
Schoonover, James. (See Cromwell and Schoonover.)						
Schorch, Richard, Darmstadt, Germany. Dynamo-electric machine.....	560,328	May 19	1813	412	75	1085
Schorr, William A., and W. R. Collins, Denver, Colo. Can-opener.....	573,359	Dec. 15	2258	539	77	1743
Schott, John. (See Pennington and Schott.)						
Schott, Mathilde, Brooklyn, N. Y. Cigar-cutting attachment for lead-pencils.....	572,452	Dec. 1	647	152	77	1402
Schotz, John F., New York, N. Y. Waist-belt.....	566,626	Aug. 25	3007	734	76	1237
Schoup, Emil, Lima, Ohio. Drawer-pull.....	562,491	June 23	2488	603	75	1898
Schow & Brothers, P. E. (See Schow, Ottinus E. and J. E., assignors.)						
Schow, John E. (See Schow, Ottinus E. and J. E.)						
Schow, Ottinus E. and J. E., assignors to P. E. Schow & Brothers, Clifton, Tex. Combined halter and weaning-muzzle.....	563,721	July 7	818	195	76	153
Schoyer, Hayes C., Altoona, Pa. Dust and draft arrester.....	567,922	Sept. 15	2043	490	76	1692
Schrader, Frederick, Rockaway, N. J., assignor to Garvin Machine Company, New York, N. Y. Wheel-truing device.....	569,033	Oct. 6	546	126	77	104
Schrader, George H. F., New York, N. Y. Valve and stopper.....	555,664	Mar. 3	315	73	74	1186
Schrader, George H. F., New York, N. Y. Tire or like valve.....	555,665	Mar. 3	317	74	74	1187
Schrader, George H. F., New York, N. Y. Valve.....	565,572	Aug. 11	1151	277	76	819
Schrader, George H. F., New York, N. Y. Tire or like valve.....	565,573	Aug. 11	1154	277	76	849
Schrader, George H. F., and H. P. Kraft, New York, N. Y.; said Kraft assignor to said Schrader. Fastening for tire-valves.....	552,722	Jan. 7	391	102 103	74	76
Schrader, Henry C., Hammondville, Pa. Apparatus for fire-polishing.....	566,412	Aug. 25	2648	646	76	1169
Schrader, Henry C., Hammondville, Pa. Carbureter.....	566,413	Aug. 25	2649	647	76	1169
Schrantz, Edward, Warrenton, Mo. Rail-tongs.....	554,461	Feb. 11	1186	276	74	741
Schrantz, Edward, St. Louis, Mo. Globe attachment for electric lamps.....	571,802	Nov. 24	2435	581	77	1153
Schraudner, Frederick, assignor of one-half to Gus V. Brecht Butchers Supply Company, St. Louis, Mo. Overhead-railway switch.....	564,110	July 14	1546	363 364 458 459	76	304
Schrebler, Charles, Lawrence, Mass. Bagging-machine.....	560,432	May 19	2003	458 459	75	1120
Schrebler, Charles, Lawrence, assignor of one-half to F. Hartley, Newton, Mass. Wool-drying machine.....	554,838	Feb. 18	1827	428	74	880
Schrecongost, James D. (See Gocher and Schrecongost.)						
Schreffler, Edward, Killinger, Pa. Lawn-mower.....	568,146	Sept. 22	2496	600	76	1787
Schreiber, John, St. Louis, Mo. Machine for binding edges with sheet metal.....	554,839	Feb. 18	1830	429 430	74	881
Schreiber, Philip, Alma, Kans. Car-coupling.....	564,768	July 28	2678	637	76	541
Schreier, Gustave. (See Kuenneth, Schreier, and Kuenneth.)						
Schrenkeisen, Henry G., Rye, N. Y. Brace for converting window-curtains into awnings.....	554,958	Feb. 18	2039	483	74	919
Schreuder, Jens G., Wilkinsburg, assignor to Union Switch and Signal Company, Swissvale, Pa. Switch and signal mechanism for railway-crossings.....	559,613	May 5	448	105 106	75	769
Schreuder, Jens G., Wilkinsburg, assignor to Union Switch and Signal Company, Swissvale, Pa. Electric switch and signal apparatus.....	566,541	Aug. 25	2894	705	76	1215
Schreuder, Jens G., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Signal apparatus.....	570,062	Oct. 27	2362	562	77	485
Schroder & Co., J. B. (See Luebberts, John, assignor.)						
Schroeder, Charles, Columbus, Ohio. Leak-stopper.....	569,430	Oct. 13	1223	287	77	248
Schroeder, Ernst C., Itasca, Ill. Combination-plow.....	566,414	Aug. 25	2651	647	76	1170
Schroeder, Frederick W., Newtown, assignor to H. Dixon, Sydney, New South Wales. Tobacco-pipe.....	565,183	Aug. 4	439	105	76	698
Schroeder, George G., Washington, D. C. Artificial stone.....	562,201	June 16	2011	.....	75	1793
Schroeder, George G., assignor of one-fourth to H. P. Holden, Washington, D. C. Gas-entricher.....	557,086	Mar. 24	2846	681	74	1714
Schroeder, George G., assignor of one-fourth to Henry P. Holden, Washington, D. C. Carbureter.....	566,415	Aug. 25	2652	647 648	76	1170
Schroeder, Harry. (See Shewell, Emory N., assignor.)						
Schroeder, Heinrich, Milwaukee, Wis. Table.....	568,172	Sept. 22	2534	610	76	1794
Schroeder, Heinrich L. H., assignor to Manhattan Optical Company, New York, N. Y. Lens.....	554,737	Feb. 18	1652	390	74	846
Schroeder, William H. (See Stevens and Schroeder.)						
Schroeder, William S., assignor of one-half to C. A. Schroyer, Chicago, Ill. Seal-lock.....	561,347	June 2	507	127	75	1167
Schroeder, William S., Chicago, assignor to himself, and C. A. Schroyer, Oak Park, Ill. Gondola car.....	572,279	Dec. 1	336	80	77	1343
Schröppel, Daniel A., Brunswick, Germany. Cone-shaped tightening appliance.....	558,744	Apr. 21	2161	521	75	440
Schroter, George A., assignor of one-half to T. Lowthian, Denver, Colo. Extraction of precious metals.....	559,614	May 5	453	.....	75	770
Schrottke, Karl O. F. (See Oelschläger and Schrottke.)						
Schrouder, Henry H., Syracuse, N. Y. Car-brake.....	564,226	July 21	1745	408	76	354
Schroyer, Charles A. (See Schroeder, William S., assignor.)						
Schroyer, Charles A. (See Williamson and Schroyer.)						
Schroyer, Stephen, Pottstown, Pa., assignor of one-half to S. S. Rapp, F. W. Copeland, G. A. Krause, and J. W. Halteman. Car-axle box.....	566,475	Aug. 25	2795	679	76	1195
Schubert, Hermann, New York, N. Y. Double safety-clutch for supports for scaffolds.....	569,240	Oct. 13	905	217	77	189
Schubert, Max. (See Schubert, Otto and M.)						
Schubert, Otto and M., Charlottenburg, Germany, assignors to United States Metal Box Corner Company, Atlanta, Ga. Apparatus for applying metal strips to box-corners.....	569,567	Oct. 13	1474	347	77	294
Schubert, Otto and M., Charlottenburg, Germany, assignors to United States Metal Box Corner Company, Atlanta, Ga. Metal strip for corners of boxes.....	569,568	Oct. 13	1478	348	77	294
Schuchat, Jonas, and D. G. Butts, Chicago, Ill.; said Butts assignor to said Schuchat. Machine for making tufts.....	570,685	Nov. 3	496	116 117	77	731
Schnack, Aloys, Brooklyn, N. Y. Brush.....	573,711	Dec. 22	2931	693	77	1887
Schnelke, William, Milwaukee, Wis. Organ.....	572,128	Dec. 1	60	15	77	1289
Schnelke, William, Milwaukee, Wis. Organ.....	572,129	Dec. 1	64	15	77	1290
Schnelke, William, Milwaukee, Wis. Organ.....	572,130	Dec. 1	67	15	77	1290
Schuerenburg, F. W. (See Schoenfelder, August, assignor.)						
Schuerman, Frederick G., Twin Bluffs, Wis. Corn-harvester.....	571,846	Nov. 24	2512	595 596	77	1167
Schuetz, Thomas H., St. Louis, Mo. Fly-screen.....	563,314	July 7	141	32	76	29
Schuhmann, George, Reading, Pa. Rolling-mill.....	565,512	Aug. 11	1051	252	76	830

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Schule, Friedrich H., Hamburg, Germany. Grain-separating machine.....	559,815	May 12	828	{ 194 195 }	75	853
Schuler, Chris C., Freeport, Ill. Clevis.....	565,513	Aug. 11	1052	252	76	831
Schuler, Louis, Goeppingen, Germany. Hydraulic drawing press.....	570,063	Oct. 27	2363	562	77	485
Schulte, Charles J., and C. F. Wehmeyer, St. Louis, Mo. Folding or collapsible chair.....	561,136	June 2	103	28	75	1387
Schulte, David J., Latrobe, Pa. Car-coupling. (Reissue).....	11,556	July 7	825	197	76	154
Schulte, Joseph A., Arcadia, Iowa. Electric clock.....	572,131	Dec. 1	68	16	77	1291
Schulte, Robert W., Glenfield, Pa. Ironing-table.....	573,539	Dec. 22	2604	618	77	1825
Schultz, Edward N., Glens Falls, N. Y. Resurfacing-paint.....	564,901	July 28	2829	.....	76	580
Schultz, Frederick A., Middletown, Conn. Washboard.....	553,136	Jan. 14	1177	286	74	236
Schultz, Joachim, Chicago, Ill. Draw-bar lift.....	571,540	Nov. 17	1975	470	77	1047
Schultz, John F., Brooklyn, N. Y. Utensil for holding sweepings.....	554,840	Feb. 18	1835	431	74	881
Schultz, Kai. (See Larsson and Schultz.).....						
Schultze, Arthur, Hoboken, N. J. Apparatus for dynamic heating.....	561,445	June 2	684	169	75	1499
Schultze, Charles, Brooklyn, N. Y. Machine for making wire nails.....	556,559	Mar. 17	2013	470	74	1538
Schultze, August F., assignor of one-half to G. J. Bernasco, Burlington, N. J. Clamp.....	562,922	June 30	3265	788	75	2064
Schulze, Charles, Deer Plain, Ill. Corn-harvester.....	571,202	Nov. 10	1395	{ 326 327 }	77	926
Schulze, Karl, Hanover, Germany. Piano-pedal.....	572,316	Dec. 1	413	98	77	1357
Schulze, Rudolph P., Brooklyn, N. Y., assignor to Columbia Perfecting Press Company, Washington, D. C. Printing-machine.....	562,099	June 16	1846	448	75	1761
Schulze, Theodore, New York, N. Y. Tool for holding pipe-nipples.....	570,233	Oct. 27	2668	634	77	544
Schumacher, Charles F., Hartford, Conn. Flush-tank valve.....	573,540	Dec. 22	2606	618	77	1825
Schumacher, James E., York, England. Hydraulic or other engine.....	571,129	Nov. 10	1289	{ 299 300 }	77	906
Schumacher, John, Chicago, Ill. Bottle-stopper.....	573,301	Dec. 15	2150	{ 515 516 }	77	1722
Schumacher, John, Chicago, Ill. Bottle-stopper.....	573,360	Dec. 15	2259	539	77	1743
Schuman, Jacob L., New York, assignor of one-third to S. F. Clark, Kingsbridge, N. Y. Car-fender.....	553,266	Jan. 21	1413	344	74	294
Schuman, James B., Columbia City, Ind. Pneumatic grain-conveyer.....	559,615	May 5	455	106	75	770
Schuman, James B., Columbia, Ind. Grain recleaner and separator.....	569,389	Oct. 13	1162	276	77	237
Schumann, Henry, and B. C. Alvord, Graf, Nebr. Door-catch.....	574,004	Dec. 29	3460	828	77	1999
Schumm, Hermann, Cologne, assignor to Gas-Motoren-Fabrik-Deutz, Cologne-Deutz, Germany. Appliance for starting gas and oil motor engines.....	569,942	Oct. 20	2156	511	77	434
Schumm, Hermann, Cologne, assignor to Gas-Motoren-Fabrik-Deutz, Cologne-Deutz, Germany. Driving-gear for motor-cars.....	572,453	Dec. 1	649	{ 152 153 }	77	1402
Schureman, Howard B., Newark, N. J. Grinding-machine.....	556,868	Mar. 24	2483	585	74	1644
Schurmann, Clemens, and J. J. Brophy, St. Louis, Mo. Fan attachment for rocking-chairs, &c.....	566,476	Aug. 25	2796	{ 679 680 }	76	1196
Schurmann, Clemens, and J. J. Brophy, St. Louis, Mo. Fan attachment for rocking-chairs, &c.....	573,541	Dec. 22	2607	{ 618 619 }	77	1825
Schurr, John J., Pittsburg, Pa. Trap-door stairs.....	568,704	Sept. 29	3488	834	76	1988
Schurz, Francis C. (See Evetts and Schurz.).....						
Schuster, Albert, Berlin, Germany. Match-box-filling machine.....	568,801	Oct. 6	153	36	77	31
Schuster, Clement J., San Francisco, Cal. Steam-beer faucet.....	565,802	Aug. 11	1559	380	76	926
Schuster, Herman, Silver Creek, Nebr. Platform-scale.....	565,122	Aug. 4	303	72	76	673
Schutt, Dany A., assignor to Peru Electric Manufacturing Company, Peru, Ind. Circuit-block.....	556,028	Mar. 10	953	227	74	1326
Schutte, Louis, Philadelphia, Pa. Safety device for attachments to boilers.....	554,738	Feb. 18	1653	390	74	846
Schutte, Louis, Philadelphia, Pa. Exhauster.....	571,022	Nov. 10	1082	253	77	868
Schutte, Louis, Philadelphia, and A. S. Vogt, Altoona, Pa. Oil-torch.....	566,024	Aug. 18	1979	480	76	1027
Schutte, Louis, Philadelphia, and A. S. Vogt, Altoona, Pa. Apparatus for delivering measured charges of fluid.....	566,025	Aug. 18	1980	480	76	1027
Schütz, Conrad, Philadelphia, Pa. Folding-machine.....	569,355	Oct. 13	1107	{ 263 264 }	77	228
Schuyler Electric Company. (See Knowles, Edward R., assignor.).....						
Schwab, Leo L. (See Engelman, Eugene M., assignor.).....						
Schwacofer, Charles E., Jersey City, N. J., assignor to Donaldson Brothers, New York, N. Y. Advertising-envelop.....	560,175	May 12	1524	344	75	983
Schwagerman, William, Yonkers, N. Y., assignor of one-half to O. Wiederhold, Summit, N. J. Annunciator-drop.....	572,378	Dec. 1	537	127	77	1380
Schwahn, Heinrich F. D., Kansas City, Mo. Producing aluminium.....	562,785	June 23	3004	726	75	1996
Schwanengel, John C. (See Schiml and Schwanengel.).....						
Schwartz, Charles W., Jr., Philadelphia, Pa. Drive-chain.....	564,030	July 14	1391	323	76	273
Schwartz, Frederick. (See Courtney and Schwartz.).....						
Schwartz, Fritz. (See Amende, Johann F. W., assignor.).....						
Schwartz, George W., and B. J. Cigrand, Chicago, Ill. Dental furnace.....	573,361	Dec. 15	2260	540	77	1743
Schwartz, Henry F., Philadelphia, Pa. Revolvable sign and reflector therefor.....	563,808	July 14	975	232	76	199
Schwartz, William B., Indianapolis, Ind. Type-writing machine.....	566,232	Aug. 18	2315	566	76	1090
Schwartz, Adolph, New York, N. Y. Cigar branding and cutting machine.....	563,622	July 7	649	151	76	122
Schwartz, Charles L., Philadelphia, Pa. Vehicle.....	561,287	June 2	397	99	75	1447
Schwartz, Conrad S., Philadelphia, Pa. Hat-cleaning machine.....	564,539	July 21	2265	531	76	448
Schwartz, Daniel, and G. Luxeder, Temesvar, Austria-Hungary. Combined cycle-stand and mud-guard.....	573,542	Dec. 22	2610	619	77	1826
Schwartz, Jacob, assignor to J. Schwarz, New York, N. Y. Waistband for trousers.....	554,035	Feb. 4	427	94	74	583
Schwartz, Joseph, Sioux Falls, S. D. Sash-holder.....	554,317	Feb. 11	931	214	74	692
Schwartz, Julius. (See Schwarz, Jacob, assignor.).....						
Schwarze, Carl J., Adrian, Mich. Telephonic apparatus.....	552,972	Jan. 14	902	219	74	182
Schwarze, Carl J., Adrian, Mich. Telephone apparatus.....	554,036	Feb. 4	428	94	74	583
Schwarze, Carl J., Adrian, Mich. Telephone apparatus.....	566,416	Aug. 25	2654	648	76	1171
Schwarze, Carl J., Adrian, Mich. Telephonic apparatus.....	572,775	Dec. 8	1216	{ 294 295 }	77	1528
Schwarzkopf, Anton. (See Schwarzkopf, Frank J. and A.).....						
Schwarzkopf, Frank J. and A., Brooklyn, N. Y. Rope or washline pulley-block hanger and removing device.....	562,156	June 16	1936	470	75	1778
Schwarzmann, John, assignor of two-thirds to J. H. Keith and H. Patterson, Washington, D. C. Line-fastener.....	555,340	Feb. 25	2739	642	74	1065
Schwechler, John, and O. Ingram, said Schwechler assignor of three-eighths to G. Davis and H. D. Scheetz, and said Ingram assignor of one-fourth to C. Schneider and J. B. Riehl, Philadelphia, Pa. Soap cup or holder.....	564,540	July 21	2266	532	76	448
Schwedtmann, Ferdinand. (See Wagner and Schwedtmann.).....						
Schweers, Henry, New York, N. Y. Car fender or guard.....	554,462	Feb. 11	1187	{ 276 277 }	74	741

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Schweitzer, Frank, Grand Rapids, Mich. Furniture-clamp	572,725	Dec. 8	1131	273	77	1513
Schweitzer, Hugo, Englewood, N. J. Tanning	573,362	Dec. 15	2262	.....	77	1744
Schweitzer, Hugo, New York, and E. E. Lungwitz, Brooklyn, assignors to themselves, E. N. Dickerson, and T. L. Willson, New York, N. Y. Production of steel and refining of iron ore	566,026	Aug. 18	1982	.....	76	1027
Schweizer, Charles F., <i>et al.</i> (See Beard, George W., assignor.)						
Schwencke, Julius. (See Boettner and Dicke, assignors.)						
Schwerin, Jerome M. (See Miller, Frank P., assignor.)						
Schwieger, Carl T. H., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Underground conductor system for electric railways	555,266	Feb. 25	2604	611	74	1039
Schwiening, Carl R. A. G., Bettenhausen, Germany. Match	562,426	June 23	23*5	.....	75	1879
Schwiete, Carl H., Denver, Colo. Inkstand	561,348	June 2	508	128	75	1468
Schwill & Co., Albert. (See Stier, Hermann, assignor.)						
Scofield, Richard C., Boonton, and J. Wayland, Newark, N. J. Insulated rail-joint	567,416	Sept. 8	1215	291	76	1518
Scofield, Walter P., Cedar Keys, Fla. Bag-tie	559,220	Apr. 28	3062	739	75	626
Scofield, William S., <i>et al.</i> (See Moehn, John N., assignor.)						
Scott, Adam. (See Fields, Samuel I., assignor.)						
Scott Automatic Boiler Feeder Co. (See Scott, Orla J., assignor.)						
Scott, Charles. (See Cook and Scott.)						
Scott, Charles F., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Fuse for electric circuits	569,803	Oct. 20	1918	455	77	389
Scott, Charles F., Pittsburgh, and C. E. Skinner, Allegheny, assignors to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Device for detecting short circuits	556,646	Mar. 17	2093	490	74	1553
Scott, Charles H. (See Stoddard, Merchant, assignor.)						
Scott, Charles S., Cadiz, Ohio. Pneumatic tire	557,441	Mar. 31	3493	835	74	1855
Scott, Charles W., Jr., Stockton, assignor of one-half to F. B. Armstrong, Camden, N. J. Knockdown racking-stand for barrels	572,574	Dec. 8	854	205	77	1460
Scott, D. S., <i>et al.</i> (See Cable, Daniel J., assignor.)						
Scott, Daniel, Brooklyn, assignor of one-half to H. C. Becker, New York, N. Y. Chimney-cowl	563,890	July 14	1144	268	76	230
Scott, Dugald, assignor to Jones Brothers & Co., Manchester, England. Lappet-loom	567,923	Sept. 15	2044	490	76	1692
Scott, Edwin M. (See Whipple, Charles L., assignor.)						
Scott, Ernest G., Liverpool, England. Apparatus for evaporating brine	566,627	Aug. 25	3007	734	76	1237
Scott, Frank J., St. Paul, Minn. Founder's molding-machine	560,433	May 19	2005	459 460 499	75	1120
Scott, Frank J., St. Paul, Minn. Founder's molding-machine	560,548	May 19	2191	500 535 949	75	1152
Scott, Frank P., Terre Haute, Ind. Telegraph switch mechanism	571,695	Nov. 17	2226	536 507	77	1094
Scott, Frank S. D., London, England. Advertising device	574,277	Dec. 29	3998	950 507	77	2096
Scott, Frederic W., assignor to J. G. Morrison, Cambridge, Mass. Hoisting-engine	556,699	Mar. 17	2171	508	74	1568
Scott, George H., Worcester, Mass. Electric rail-bond	567,257	Sept. 8	914	218	76	1465
Scott, George H., Worcester, Mass. Electric rail-bond	571,888	Nov. 24	2592	615	77	1182
Scott, George V., <i>et al.</i> (See Ryan, George H., assignor.)						
Scott, Gordon J., Philadelphia, Pa. System of electrical distribution	562,924	June 30	3270	789 790 791	75	2065
Scott, Gordon J., Philadelphia, Pa. Electric motor	564,455	July 21	2132	499	76	423
Scott, Gordon J., Philadelphia, Pa. Rotary engine	565,123	Aug. 4	304	72	76	673
Scott, Henry P., Kansas City, Mo. Medicine-dose indicator	557,616	Apr. 7	152	40	75	30
Scott, Henry P., Kansas City, Mo. Syringe-nozzle	565,928	Aug. 18	1798	438	76	989
Scott, Henry R., Kansas City, Mo. Steam-generator	571,847	Nov. 24	2517	596	77	1168
Scott, Henry R., Kansas City, Mo. Steam-generator	571,848	Nov. 24	2519	597	77	1168
Scott, Jacob E., New York, N. Y. Mechanism for waxing thread	562,249	June 16	2087	506	75	1807
Scott, James D., Ridgeway, N. C. Pipe	565,638	Aug. 11	1262	304	76	869
Scott, James E., Louisville, Ky. Car-coupling	554,146	Feb. 4	637	144	74	621
Scott, James M. (See Chapman and Scott.)						
Scott, John C., president and trustee. (See Henderson, John C., assignor.)						
Scott, John H., Winston, N. C. Advertising apparatus	553,569	Jan. 28	1946	459	74	408
Scott, John H., Winston, N. C. Curtain-fixture	554,959	Feb. 18	2041	484	74	919
Scott, John O., Waupaca, Wis. Making dental suction-plates	563,809	July 14	977	233	76	199
Scott, Lafayette S., Springfield, Vt. Screw-cutting die	563,810	July 14	978	233	76	199
Scott, Mahlon M., assignor of nine-twentieths to W. J. Van Vorst, Newark, N. J. Leather graining and softening machine	552,857	Jan. 7	667	162	74	126
Scott, Orla J., Fairmount, Ind., assignor to Scott Automatic Boiler Feeder Co., Louisville, Ky. Automatic boiler-feeder	553,476	Jan. 21	1771	422	74	360
Scott, Richard H. (See McNutt, John F., assignor.)						
Scott, Robert D., Pontiac, Mich. Vehicle-gear	553,692	Jan. 28	2153	509	74	445
Scott, Robert P., Baltimore, Md. Ice-creeper	556,107	Mar. 10	1102	262	74	1353
Scott, Robert W. (See Williams, Louis N. D., assignor.)						
Scott, Sylvester, Rockford, Ill. Garden implement	562,248	June 16	2086	505	75	1807
Scott, Thomas. (See Smith and Scott.)						
Scott, Walter, Plainfield, N. J. Printing-machine	556,478	Mar. 17	1814	421 422	74	1502
Scott, Walter, Plainfield, N. J. Printing-machine	557,152	Mar. 31	2966	710	74	1759
Scott, Walter, Plainfield, N. J. Means for printing and associating folded sheets	558,424	Apr. 14	1602	390 391	75	319
Scott, Walter, Plainfield, N. J. Printing-machine	558,425	Apr. 14	1611	391	75	321
Scott, Walter, Plainfield, N. J. Web-tension device for printing-presses	558,426	Apr. 14	1615	391	75	321
Scott, Walter, Plainfield, N. J. Paper folding and cutting machine	562,202	June 16	2012	480 487	75	1793
Scott, Walter, Plainfield, N. J. Bed-motion for cylinder printing-machines	562,427	June 23	2185	580	75	1879
Scott, Walter, Plainfield, N. J. Bed-motion for cylinder printing-machines	562,923	June 30	3266	789	75	2064
Scott, Walter, Plainfield, N. J. Bed-motion for cylinder printing-machines	563,511	July 7	469	110	76	90
Scott, Walter, Plainfield, N. J. Printing-machine	571,982	Nov. 24	2761	651 652	77	1215
Scott, Walter, Plainfield, N. J. Folding-machine	572,280	Dec. 1	337	80, 81	77	1344
Scott, Walter A., Duluth, Minn. Cereal-washing machine	554,960	Feb. 18	2042	484	74	920
Scott, Walter E., New York, N. Y., assignor to E. Gibson, Jersey City, N. J. Grate	569,063	Oct. 6	595	136	77	114
Scott, Walter J., and H. W. Shonard, New York, N. Y. Interchangeable electric sign	567,924	Sept. 15	2046	491	76	1693
Scott, Walter W., Buffalo, assignor to J. L. White, New York, N. Y. Steam-generator	562,342	June 16	2254	546	75	1838

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Scott, William, Leavenworth, Kans. Window-screen.....	559,499	May 5	259	61	75	732
Scott, William, Medford, Mass. Tank-supply valve.....	571,023	Nov. 10	1083	253	77	868
Scott, William, Medford, assignor to Dalton-Ingersoll Company, Boston, Mass. Lavatory	559,147	Apr. 28	2909	703	75	597
Scott, William, Medford, Mass., assignor to Dalton-Ingersoll Company, of Massachusetts.	572,575	Dec. 8	854	205	77	1460
Siphon water-closet.....				206		
Scott, William G., Rock Dell, Minn. Cultivator.....	554,841	Feb. 18	1836	431	74	882
Scott, William H., What Cheer, Iowa. Pick.....	563,732	July 7	819	432	76	153
Scott, William W., assignor to Lavigne & Scott Manufacturing Company, New Haven, Conn. Yacht-cannon.....				196		
Seongale, Malcolm, Fort Worth, Tex. Combined ink, pen, and penholder carrier.....	570,507	Nov. 3	127	31, 32	77	662
Seovil, George W., and E. F. Gooding, Elgin, Ill. Cut-out for electric circuits.....	565,095	Aug. 4	250	60	76	662
Seovil, George W., and E. F. Gooding, Elgin, Ill. Cut-out for electric circuits.....	562,980	June 30	3391	815	75	2092
Seovil, Lyman A., Chicago, Ill. Hanger for arc-lamps.....	558,989	Apr. 28	2529	816		
Seovill Manufacturing Company. (See Lines, John, assignor.)				630	75	537
Seovill Manufacturing Company. (See Lines and Wolf, assignors.)	559,868	May 12	949	212	75	875
Seovill Manufacturing Company. (See Shipley and Hyde, assignors.)				213		
Seovill Manufacturing Company. (See Welton, Edwin D., assignor.)	559,868	May 12	949	212	75	875
Seoville, Eugene M., assignor to International Gas and Fuel Company, Chicago, Ill. Crucible-furnace.....				213		
Scoweroft, Louis. (See Pegel, Julius G., assignor.)	559,816	May 12	830	195	75	853
Scowden, Julia P., executrix. (See Scowden, Ransom T.)				195	75	854
Scowden, Ransom T., deceased, Chicago, Ill.; J. P. Scowden, executrix, assignor, by mesne assignments, to Revolving Purifier Company, of New Jersey. Apparatus for purifying water.....	559,817	May 12	833	196		
Scowden, Ransom T., deceased, Chicago, Ill.; J. P. Scowden, executrix, assignor, by mesne assignments, to Revolving Purifier Company, of New Jersey. Apparatus for purifying water.....				196	75	199
Scowden, Ransom T., deceased, New York, N. Y.; J. P. Scowden, executrix, assignor, by mesne assignments, to Revolving Purifier Company, of New Jersey. Apparatus for purifying water.....	563,811	July 14	980	231		
Scranton, Benjamin H. (See D.ite, Heffron, Scranton, and Scudder.)				231	76	199
Scranton, Frederick A., assignor to Bevin Brothers Manufacturing Company, East Hampton, Conn. Bicycle-bell clamp.....	572,379	Dec. 1	538	127	77	1380
Scranton Stove Works. (See Woodhull, Bradley, assignor.)	570,820	Nov. 3	726	166	77	773
Scrattou, Edward J. B., St. Andrews, Scotland. Portable safety-target.....				166		
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Multiple-switchboard system for telephone-exchanges.....	552,723	Jan. 7	394	103	74	76
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Multiple-switchboard system for telephone-exchanges.....	552,724	Jan. 7	399	103	74	77
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Spring-jack for telephone-switchboards.....	552,725	Jan. 7	401	104	74	78
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Switchboard system for telephone-exchanges.....	552,726	Jan. 7	403	104	74	78
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Annunciator for telephone-switchboards.....	552,727	Jan. 7	406	104	74	78
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Multiple-switchboard.....	552,728	Jan. 7	408	105	74	79
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Spring-jack switch.....	552,729	Jan. 7	410	105	74	79
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-circuit.....	552,730	Jan. 7	413	106	74	80
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Apparatus for telephone-switchboards.....	554,399	Feb. 11	1063	248	74	717
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Apparatus for telephone-lines.....	557,153	Mar. 31	2970	710	74	1760
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Apparatus for telephone-lines.....	557,154	Mar. 31	2972	710	74	1760
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Testing apparatus for multiple switchboards.....	557,708	Apr. 7	321	77	75	61
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Lock-out system for telephone-lines.....	557,898	Apr. 7	651	157	75	123
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Electric-arc lamp.....	559,407	May 5	105	23	75	701
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Electric-arc lamp.....	559,408	May 5	107	23	75	701
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-circuit for police-boxes.....	559,409	May 5	108	24	75	702
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. System of current supply for telephones.....	559,616	May 5	456	106	75	770
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Selective-signal and lock-out system.....	559,809	May 12	950	213	75	875
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Busy-signal for telephone-lines.....	560,757	May 26	2599	598	75	1245
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Apparatus for telephone switchboards.....	563,073	June 30	3564	856	75	2125
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-switchboard system.....	563,245	June 30	3849	923	75	2177
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Electric-arc lamp.....	563,315	July 7	142	33	76	30
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Speed-regulator for dynamos.....	563,316	July 7	144	33, 34	76	30
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Speed-regulator for dynamos.....	563,317	July 7	146	34	76	31
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Bridging bells.....	563,318	July 7	148	35	76	31
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Incandescent lamp.....	563,319	July 7	151	35	76	31
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Multiple-switchboard system for telephone-exchanges.....	563,320	July 7	152	35	76	31
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Incandescent lamp.....	563,321	July 7	156	35	76	32
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-circuit.....	563,322	July 7	158	36	76	33
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Testing apparatus for multiple switchboards.....	563,323	July 7	160	36	76	33
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Electric police-signal system.....	563,324	July 7	163	36	76	33

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Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. System of current distribution for substation-telephones	563,325	July 7	165	36	76	34
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Contact-point for electrical instruments	563,326	July 7	167	37	76	34
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Keyboard apparatus for telephone-switchboards	564,458	July 21	2141	500	76	425
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Apparatus for multiple switchboards for telephone-exchanges	571,906	Nov. 24	2632	624	77	1189
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone	571,907	Nov. 24	2636	625	77	1189
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Safety-valve for mercurial air-pumps	571,908	Nov. 24	2638	625	77	1190
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Explosive projectile	571,909	Nov. 24	2639	625	77	1190
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-exchange system	571,910	Nov. 24	2642	626	77	1190
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Needle-plug test system for multiple switchboards	572,218	Dec. 1	215	53	77	1319
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Cord switch for telephone-switchboards	572,219	Dec. 1	218	53	77	1319
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Electric signal-bell	572,220	Dec. 1	221	54	77	1320
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-exchange system	572,221	Dec. 1	223	54	77	1320
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-circuit	572,222	Dec. 1	226	54	77	1321
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-circuit	574,005	Dec. 29	3461	828	77	1999
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Test system for multiple switchboards	574,006	Dec. 29	3464	829	77	2000
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Electric-arc lamp	574,045	Dec. 29	3532	843	77	2013
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Toll-box for telephones	574,046	Dec. 29	3534	844	77	2013
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-exchange system	574,221	Dec. 29	3898	928	77	2077
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Selective-signal system	574,222	Dec. 29	3900	928	77	2078
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Selective signal	574,223	Dec. 29	3904	928	77	2078
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Spring-jack for telephone-switchboards	574,224	Dec. 29	3906	929	77	2079
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Motor-generator	574,278	Dec. 29	4000	950	77	2097
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Signaling-circuit for telephone trunk-lines	574,279	Dec. 29	4002	950	77	2097
Scribner, Charles E., Chicago, and F. R. McBerty, Downer's Grove, assignors to Western Electric Company, Chicago, Ill. Apparatus and circuit for telephones	559,410	May 5	110	24	75	702
Scribner, Charles E., Chicago, and F. R. McBerty, Downer's Grove, assignors to Western Electric Company, Chicago, Ill. Apparatus for telephone-switchboards	559,411	May 5	113	24	75	703
Scribner, Charles E., Chicago, and F. R. McBerty, Downer's Grove, assignors to Western Electric Company, Chicago, Ill. Operator's keyboard apparatus and circuit therefor	564,456	July 21	2134	499	76	424
Scribner, Charles E., Chicago, and F. R. McBerty, Downer's Grove, assignors to Western Electric Company, Chicago, Ill. Operator's keyboard apparatus and circuit therefor	564,457	July 21	2138	500	76	424
Scribner, Charles E., Chicago, and F. R. McBerty, Downer's Grove, assignors to Western Electric Company, Chicago, Ill. Apparatus for telephone-switchboards	572,223	Dec. 1	227	54	77	1321
Scribner, Charles E., Chicago, and F. R. McBerty, Downer's Grove, assignors to Western Electric Company, Chicago, Ill. Signaling apparatus for telephone-lines	574,225	Dec. 29	3908	929	77	2079
Scribner, Charles E., Chicago, and F. R. McBerty, Downer's Grove, assignors to Western Electric Company, Chicago, Ill. Automatic signaling device for telephone-exchanges	574,280	Dec. 29	4005	951	77	2098
Scribner, Charles E., Chicago, and F. R. McBerty, Downer's Grove, assignors to Western Electric Company, Chicago, Ill. Plug for telephone-switchboards	574,281	Dec. 29	4007	951	77	2098
Scribner, Charles E., and E. P. Warner, assignors to Western Electric Company, Chicago, Ill. Telephone-exchange switchboard	563,327	July 7	168	37, 38	76	34
Scribner, Walter K., Oshkosh, Wis. Thill-coupling	562,250	June 16	2088	506	75	1807
Scribner, John, Jr., Pittston, Pa. Ceiling-plate	570,775	Nov. 3	653	149	77	758
Scritchfield, Amos J., Janesville, Wis. Fountain-pen	564,938	July 28	2971	708	76	594
Scruggs, Thomas D., Florence, Ala. Permutation-padlock	557,155	Mar. 31	2974	710	74	1761
Scudder, Heyward, Northport, N. Y. Rib-tip holder for umbrellas or parasols	558,851	Apr. 21	2338	568	75	472
Scudder, Heyward, Boston, Mass. Rib-tip holder for umbrellas or parasols	572,833	Dec. 8	1314	315	77	1548
Scudder, John. (See Date, Heffron, Scranton, and Scudder.)						
Scudder, Wilbur S., Brooklyn, N. Y., assignor to National Typographic Company, of West Virginia. Type and means for justifying same	565,514	Aug. 11	1053	253	76	831
Scudder, Wilbur S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, of New Jersey. Linotype-machine	565,515	Aug. 11	1055	253	76	831
Scullin, Thomas F., and A. Maehlen, Indianapolis, Ind., assignors to J. A. Henderson, Danville, Va. Machine for tagging plug-tobacco	567,174	Sept. 8	780	183 184	76	1441
Sealey, James, Greenville, Mich. Mop-wringer	568,283	Sept. 22	2719	652	76	1230
Seaman, Albert J. (See MacLay and Seaman.)						
Seaman, Benjamin S., Canton, Ohio. Means for attaching bicycle-saddles	568,802	Oct. 6	154	36	77	31
Seaman, Benjamin S., assignor to Gilliam Manufacturing Company, Canton, Ohio. Bicycle-saddle	557,238	Mar. 31	3142	754	74	1787
Seaman, Benjamin S., assignor to Gilliam Manufacturing Company, Canton, Ohio. Bicycle-saddle	566,477	Aug. 25	2793	680	76	1196
Seaman, Benjamin S., assignor to Gilliam Manufacturing Company, Canton, Ohio. Bicycle-saddle	566,478	Aug. 25	2799	680 681	76	1196
Seaman, Charles G. (See Van Dorn and Seaman.)						
Seaman, Herbert H., Brooklyn, N. Y. Pencil	555,341	Feb. 25	2740	642	74	1065
Seaman, Richard S., Brooklyn, N. Y. Bottle	560,653	May 26	2431	556	75	1212
Seamans, Clarence W. (See Hussey, John W., assignor.)						
Seamans, Clarence W., et al., executors. (See Sholes, Christopher L., assignor.)						
Seamans, Clarence W., Brooklyn, assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Platen for type-writing machines	574,175	Dec. 29	3789	904	77	2059
Seamless Leather Company. (See Sweet, Alonzo L., assignor.)						
Seamless Structural Tube Company. (See Carlson, John, assignor.)						
Seamless Structural Tube Company. (See Harris, Hugh O., assignor.)						
Seamless Structural Tube Company. (See Holmgren, Emil F., assignor.)						
Seaton, William E., and D. A. McCaskill, Lytton, Canada. Centrifugal pump	562,157	June 16	1938	470 471	75	1779

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Seanor, William E., and D. A. McCaskill, Lytton, Canada. Gold-mining dredge.....	569,064	Oct. 6	597	{ 136 137 }	77	114
Searles, Charles P., and R. Shirley, Columbus, Ohio. Clothes-wringer.....	564,653	July 28	2477	585	76	505
Searles, James M. (See Bristol, Baxter, and Searles.)						
Searll, Frank E. (See Lacroix, Joseph, assignor.)						
Sears, Albert H., Plano, Ill. Cultivator.....	566,417	Aug. 25	2657	640	76	1171
Sears, Albert H., Plano, Ill. Cultivator.....	566,418	Aug. 25	2659	649	76	1172
Sears, Charles, Cleveland, Ohio. Carriage-feeding mechanism for type-writing machines, &c.	565,694	Aug. 11	1366	{ 332 333 }	76	891
Sears, George H., assignor of one-half to G. Hahn, Rochester, N. Y. Bicycle.....	570,271	Oct. 27	2742	{ 652 653 }	77	558
Sears, James A. W. (See Merriam and Sears.)						
Sears, James A. W., Escanaba, Mich. Washboard-holder.....	554,091	Feb. 4	529	118	74	601
Sears, James R., assignor of one-half to D. C. Matteson, Stockton, Cal. Roasting-furnace..	562,158	June 16	1940	471	75	1779
Sears, Robert B. (See White, William W., assignor.)						
Sears, Sydney L., assignor of one-half to J. E. Cole and R. W. Shultice, Norfolk, Va. Valve for pneumatic tires.....	553,791	Jan. 28	2313	549	74	476
Seaver, August. (See Ballou and Seaver.)						
Seaver, Augustus. (See Hamm, William S., assignor.)						
Seaver, Augustus, Boston, Mass. Toe-cap for boots or shoes.....	559,311	Apr. 28	3200	773	75	652
Seaver, Augustus, Boston, Mass. Upper.....	559,617	May 5	460	106	75	771
Seaver, Augustus, Boston, Mass. Box-toe.....	559,618	May 5	461	107	75	771
Seaver Process Lusting Company. (See Hamm, William S., assignor.)						
Seaverns, John A., Boston, Mass. Electric-arc lamp.....	554,542	Feb. 11	1308	{ 307 308 }	74	764
Seavolt, John W., Lock 53, assignor of one-fourth to E. P. Cohill, Hancock, Md. Carbon-ating device.....	573,712	Dec. 22	2932	693	77	1888
Sebastian, Charles, assignor to T. J. Cheney and J. M. Davis, St. Louis, Mo. Churn.....	574,282	Dec. 29	4009	951	77	2099
Sebastian, Adalbert von, New York, N. Y. Tobacco-pipe.....	562,492	June 23	2489	601	75	1898
Sebring, William L. (See Edgar and Sebring.)						
Seck, Willy, Oberursel, Germany. Eccentric outlet-valve motion for gas and petroleum engines.....	555,342	Feb. 25	2743	642	74	1065
Secor, Albert, Toledo, Ohio. Steam-boiler-tube cleaner.....	555,976	Mar. 10	848	202	74	1309
Secord, William N., assignor of one-half to J. C. Watson, Unionville, Mo. Wagon-brake..	558,990	Apr. 28	2591	630	75	537
Secrist, Samuel B., Beloit, Wis. Wheeled plow.....	553,874	Feb. 4	117	23	74	528
Security Lock and Manufacturing Co. (See Carroll, Thomas, assignor.)						
Seddou, Charles R., assignor of one-half to G. Bentley and J. B. Jackson, Bury, England. Mechanism for imparting motion to shake-frames.....	561,529	June 2	843	203	75	1529
Seddou, George B., New York, N. Y. Rock-drill.....	559,818	May 12	836	196	75	854
Sederholm, Edward T., Chicago, Ill. High-pressure steam-generator.....	557,899	Apr. 7	655	{ 157 158 }	75	124
Sedgwick, Earl P., assignor to Chicago Hardware Manufacturing Company, Chicago, Ill. Spring-binge.....	573,713	Dec. 22	2933	693	77	1888
See, De Witt C., Sandy Hill, N. Y. Eyelet.....	572,033	Nov. 24	2842	669	77	1229
See, Horace, New York, N. Y. Water-tube boiler.....	556,108	Mar. 10	1104	{ 262 263 }	74	1353
See, Horace, New York, N. Y. Construction of roadways for vessels, &c.....	563,074	June 30	3568	856	75	2125
See, Horace, New York, N. Y. Ferry-boat construction.....	563,075	June 30	3569	{ 856 857 }	75	2126
Seebloch, Edgar C., New Orleans, La., assignor of one-half to J. A. Fay & Egan Company, Cincinnati, Ohio. Lumber-sorter.....	574,047	Dec. 29	3536	844	77	2013
Seeley, Harley S. (See Coman and Seeley.)						
Seeley, Jennie Y. (See Seeley, Marquis F. and J. Y.)						
Seeley, Marquis F. and J. Y., Chicago, Ill. Grain-storage elevator.....	572,726	Dec. 8	1132	{ 273 274 }	77	1513
Seeligmann, Georg, Berlin, Germany. Testing tenacity of glue.....	552,731	Jan. 7	416	106	74	80
Seely, Obadiah, Syracuse, N. Y. Door-hanger.....	558,704	Apr. 21	2096	506	75	427
Seely, Obadiah, assignor to E. C. Stearns & Co., Syracuse, N. Y. Bicycle-stand.....	559,312	Apr. 28	3201	774	75	652
Seely, Thomas, Tampa, Fla. Nut-lock.....	573,044	Dec. 15	1676	403	77	1637
Seeton, Robert B. (See Kelley and Seeton.)						
Seeton, Robert B., et al. (See Kelley, Edward W., assignor.)						
Sefton, Ernest, Christchurch, New Zealand. Cricket-bat.....	561,618	June 9	994	239	75	1584
Segar, Ellie, Chicago, Ill. Puzzle.....	572,727	Dec. 8	1137	274	77	1514
Segar, Eugene D., Randolph, Vt. Support for lanterns.....	571,803	Nov. 24	2436	581	77	1153
Segassie, Edward, New Orleans, La. Spinning-top.....	567,008	Sept. 1	486	113	76	1373
Segassie, Edward, New Orleans, La. Lamp-chimney.....	571,804	Nov. 24	2437	581	77	1154
Segerdahl, Rudolph, Chicago, Ill. Electric alarm-bell.....	570,508	Nov. 3	130	32	77	662
Segerdahl, Rudolph, assignor to Western Electric Company, Chicago, Ill. Electric-arc lamp	559,412	May 5	116	24	75	703
Seibel, Joseph, Ontonagon, Mich. Thill-coupling.....	556,441	Mar. 17	1756	408	74	1491
Seibel, William A., Independence, Iowa. Lubricator.....	568,805	Sept. 1	115	28	76	1303
Seibel, William A., Independence, Iowa. Tag-fastener.....	568,803	Oct. 6	155	37	77	31
Seibel, William A., assignor, by mesne assignments, of one-half to H. H. W. Heitmann, Independence, Iowa. Harness attachment.....	570,964	Nov. 10	985	229	77	850
Seiberling, John F., Akron, Ohio. Pneumatic tire.....	564,293	July 21	1861	436	76	374
Seibert, Douglas S., Coudersport, Pa. Calendar.....	554,837	Feb. 18	1825	427	74	880
Seibert, James D. (See Williams, Frank C., assignor.)						
Seibert, Thomas B., North Indianapolis, Ind. Wheel.....	573,166	Dec. 15	1893	{ 455 456 }	77	1677
Seide, Joseph, New York, N. Y. Type-binder.....	571,625	Nov. 17	2110	506	77	1072
Seideman, Richard W., Marysville, Mont. Sausage-filling machine.....	557,156	Mar. 24	2770	657	74	1698
Seidler, Henry, Fort Benton, Mont. Attachment for tobacco-pipes.....	565,302	Aug. 4	655	156	76	736
Seifert, Arthur C. D., Chemnitz, Germany. Convertible game-table.....	572,688	Dec. 8	1055	256	77	1499
Seifert, August J., A. Bourke, and F. J. Wilken, Valparaiso, Ind. Railway-signal.....	570,064	Oct. 27	2364	562	77	486
Seifert, Bruno R., assignor to F. von Heyden Nachfolger, Radebeul, Germany. Citricphenetic acid and obtaining it.....	555,711	Mar. 3	384	.....	74	1198
Seifert, Bruno R., assignor to F. von Heyden Nachfolger, Radebeul, Germany. Substituted salol.....	561,730	June 9	1201	.....	75	1623
Seifert, Bruno R., Dresden, assignor to F. von Heyden Nachfolger, Radebeul, Germany.. Paraphenetidin succinic acid and making same.....	563,076	June 30	3570	.....	75	2126
Seifert, Hermann, Halle-on-the-Saale, Germany. Steam-generator.....	557,156	Mar. 31	2975	711	74	1761
Seigle, Adolphe, assignor to Compagnie Internationale des Procédés Adolphe Seigle, Paris, France. Apparatus for treating liquids.....	567,751	Sept. 15	1773	426	76	1640
Seigle, Adolphe, assignor to Compagnie Internationale des Procédés Adolphe Seigle, Paris, France. Apparatus for treating hydrocarbons.....	567,752	Sept. 15	1775	{ 426 427 }	76	1640

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Seigle, Adolphe, assignor to Compagnie Internationale des Procédés Adolphe Seigle, Paris, France. Automatic reignition apparatus for hydrocarbon-furnaces	571,076	Nov. 10	1181	277	77	886
Seigle, Adolphe, assignor to Compagnie Internationale des Procédés Adolphe Seigle, Paris, France. Steam-generator	571,696	Nov. 17	2229	536	77	1095
Seiler, Philipp, Chicago, Ill. Pocket coin-holder	569,675	Oct. 20	1679	397	77	348
Seim, Henry H., assignor to M. M. Buck Manufacturing Company, St. Louis, Mo. Bail-holder for lanterns	554,543	Feb. 11	1311	308	74	764
Seiple, Lincoln, and M. G. Brookins, Findlay, Ohio. Machine for cutting bar-iron	555,404	Feb. 25	2846	671	74	1085
Selby, Starr & Co. (See Harrison, James R., assignor.)						
Selden, Charles, Baltimore, Md. Railway-crossing signal	567,753	Sept. 15	1777	427	76	1640
Selden, George B., assignor to Schlicht & Field Co., Rochester, N. Y. Type-writing machine	557,239	Mar. 31	3143	{ 754 755 }	74	1787
Selders, Henry, Lodi, Ohio. Folding table	570,509	Nov. 3	131	32	77	663
Self, Albert E., Philadelphia, Pa. Hat-pin	574,007	Dec. 29	3468	829	77	2001
Self, Edward D., South Orange, N. J. Crushing apparatus	568,926	Oct. 6	333	81, 82	77	68
Self-Healing Pneumatic Tire Company. (See Chinnock, George H., assignor.)						
Self Winding Clock Company. (See Gerry and Schmidt, assignors.)						
Self Winding Clock Company. (See Mitchell, Robert A., assignor.)						
Seligmann-Lui, Gustave P., Paris, France. Toll-counter for telephone-lines	561,619	June 9	995	239	75	1584
Selkirk, Alexander, assignor of one-half to R. Bryce, Albany, N. Y. Conductor of electricity and conduit for holding same	573,302	Dec. 15	2155	516	77	1723
Sell, John F., Buffalo, N. Y. Combined operating chair and table	562,428	June 23	2388	{ 580 581 }	75	1880
Sellentine, Robert J., Cleveland, Ohio. Toy money-box	569,241	Oct. 13	907	217	77	189
Sellers, Coleman, Philadelphia, Pa., assignor to Cataract Construction Company, of New Jersey. Art of and apparatus for measuring power	565,303	Aug. 4	656	{ 156 157 158 }	76	736
Sellers, George H., Wilmington, Del. Purifying water	564,940	July 28	2974		76	595
Sellers, George H., Wilmington, Del. Apparatus for purifying water	564,941	July 28	2975	{ 708 709 }	76	595
Sellers, George H., Wilmington, Del. Apparatus for purifying water	564,942	July 28	2978	709	76	595
Sellers, George H., Wilmington, Del. Filter	564,943	July 28	2981	{ 709 710 }	76	596
Sellers, George H., Ridley Park, Pa. Chuck	574,077	Dec. 29	3587	557	77	2023
Sellers, George H., Wilmington, Del., assignor to United States Filtering and Purifying Company, of New Jersey. Apparatus for purifying water	564,939	July 28	2972	708	76	594
Sellers, Morris, Chicago, Ill. Tie-plate	573,543	Dec. 22	2610	619	77	1826
Sellers, William, assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Machine for turning steel tires for railway-wheels	566,702	Aug. 25	3129	{ 765 766 767 }	76	125
Sellers, William, J. S. Bancroft, and C. G. Barth, assignors to William Sellers & Company, Incorporated, Philadelphia, Pa. Testing-machine	552,873	Jan. 7	703	{ 171 172 173 }	74	132
Sellman, John, Stockholm, Sweden. Attachment for trays	566,479	Aug. 25	2800	681	76	1196
Sellmayer, John M. (See Pritchard and Sellmayer.)						
Sellner, Leopold, Vienna, Austria-Hungary. Signaling by means of lights	568,374	Sept. 29	2875	{ 691 692 }	76	1875
Selman, Joseph T. B., Toronto, Canada. Filter	569,065	Oct. 6	601	137	77	115
Semler, Wilhelmine, Vienna, Austria-Hungary. Folding chair	570,776	Nov. 3	654	150	77	758
Semmer, Phillip, Irwin, assignor of one-half to C. A. O'Brien, Pittsburg, Pa. Electrical apparatus for drilling wells, tunnels, &c.	556,718	Mar. 17	2202	515	74	1574
Semmes, John H., Meridian, Miss. Compound-truss bridge	566,233	Aug. 18	2316	{ 566 567 }	76	1090
Semmes, John H., Meridian, Miss. Disinfecting apparatus	566,628	Aug. 25	3008	735	76	1237
Senat, Prosper L., Philadelphia, Pa. Combined golf-tee and score-card	570,821	Nov. 3	727	166	77	773
Senderling, Martin L., Jersey City, N. J. Dumping-wagon	565,236	Aug. 4	563	132	76	718
Senderling, Martin L., Jersey City, N. J. Sliding-body dump-wagon	565,237	Aug. 4	564	132	76	719
Senderling, Martin L., Jersey City, N. J. Vehicle-spring	565,238	Aug. 4	565	{ 132 133 }	76	719
Senderling, Martin L., Jersey City, N. J. Covered wagon or cart	574,078	Dec. 29	3589	857	77	2023
Sendlein, Andreas, St. Louis, Mo. Fire-kindler	566,419	Aug. 25	2663	650	76	1172
Sendtner, Otto, Dornbinn, Austria-Hungary. Resistance-governor	568,045	Sept. 22	2297	557	76	1750
Seneca Falls Manufacturing Company. (See Darling, Henry M., assignor.)						
Seneca Falls Manufacturing Company. (See Hammer, Frederick, assignor.)						
Seneff, Albert, assignor to himself and G. Timmerman, Laramie, Wyo. Separator	568,705	Sept. 29	3489	834	76	1989
Sener, Frank K., et al. (See Rothenberger, Daniel M., assignor.)						
Senge, Liborius, Cincinnati, Ohio. Self-rotatable toy	563,077	June 30	3571	857	75	2126
Senger, Max, et al. (See Cronin, William D., assignor.)						
Senior, Joseph, Wakefield, England. Lamp or lantern	560,601	May 19	2285	523	75	1170
Senna, Charles E., Boston, Mass. Shut-off valve	567,200	Sept. 8	815	193	76	1443
Senner, Rudolf, Pforzheim, Germany. Fastening for bracelets	564,654	July 28	2478	585	76	506
Serge-Kisslow, Paul, assignor to E. S. Stretch, East Orange, N. J. Automatic fan device and rocking-chair	573,167	Dec. 15	1895	456	77	1677
Sergeant, Henry C., Westfield, N. J. Gas-generator	562,040	June 16	1739	421	75	1743
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Rotating device for rock-drills	559,619	May 5	462	107	75	771
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Channeling-machine	565,630	Aug. 11	1263	305	76	870
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Valve-gear	565,803	Aug. 11	1561	380	76	926
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Air-compressor	568,804	Oct. 6	156	37	77	32
Sergeant, Samuel S., Chicago, Ill. Machine for corrugating pipe or tubing	569,431	Oct. 13	1224	287	77	248
Sergeson, James C., Philadelphia, Pa. Shuttle	561,137	June 2	104	28	75	1387
Serrell, Harold, Plainfield, N. J. Saddle-post for bicycles	562,203	June 16	2016	487	75	1794
Serve, Jean P., Paris, France. Furnace-front for steam-boilers	562,493	June 23	2490	604	75	1899
Serve, Jean P., Lyons, France. Locomotive	567,617	Sept. 15	1542	{ 372 373 }	76	1594
Servis Railroad Tie Plate Company. (See Holmes, William W., assignor.)						
Serviss, John H. (See Choate, Charles N., assignor.)						
Sessions, Frank L., assignor to Fort Wayne Electric Corporation, Fort Wayne, Ind. Electric transformer	564,944	July 28	2984	710	76	596
Sessions, Henry H., assignor to Pullman's Palace Car Company, Chicago, Ill. Car-platform buffer	554,007	Feb. 4	371	81, 82	74	573

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Sessions, Henry H., assignor to Pullman's Palace Car Company, Chicago, Ill. Paper-box for postal cars	554,008	Feb. 4	372	82	74	573
Sessions, Henry H., Chicago, Ill., assignor to Standard Coupler Company, New York, N. Y. Platform equipment and buffer and draft rigging for railway cars	561,446	June 2	686	{ 169 170 }	75	1499
Sessions, Henry H., Chicago, Ill., assignor to Standard Coupler Company, New York, N. Y. Buffer equipment for cars	561,447	June 2	690	170	75	1500
Sessions, Henry H., Chicago, Ill., assignor to Standard Coupler Company, New York, N. Y. Railway-car	562,343	June 16	2255	{ 546 547 }	75	1838
Sessions, Henry H., Chicago, Ill., and A. P. Dennis, assignors to Standard Coupler Company, New York, N. Y. Car-coupling	558,212	Apr. 14	1241	303	75	232
Sessions, John B., Franklinville, N. Y. Sap-spout	552,623	Jan. 7	205	57	74	40
Sessler, Arnold, New York, N. Y. Bicycle-skirt	555,535	Mar. 3	87	19	74	1146
Seubert, George. (See Zielke, Fred, assignor.)						
Severance, Elmer D., Turner's Falls, assignor to A. F. Towle & Son Company, Greenfield, Mass. Packing and display box	557,240	Mar. 31	3152	755	74	1789
Severance, James R., Chicago, Ill., assignor to McCormick Harvesting Machine Company. Self-binding harvester	571,403	Nov. 17	1728	{ 411 412 }	77	1003
Severy, Melvin L., Boston, Mass. Apparatus for utilization of solar heat	567,618	Sept. 15	1543	373	76	1594
Sévier, Samuel G., Oenaville, Tex. Plow	570,822	Nov. 3	728	167	77	773
Sévigé, Henri A., Boston, Mass. Automatically-attachable button	574,008	Dec. 29	3469	829	77	2001
Sevison, Luther J., Florence, Mich. Draft-equalizer	555,622	Mar. 3	235	55	74	1173
Sewall, Henry, assignor of one-fifth to O. Reuter, Denver, Colo. Convertible gas-burner	568,002	Sept. 22	2215	534	76	1735
Seward, Daniel B., East Hampton, Mass. Button	554,544	Feb. 11	1312	308	74	765
Seward, George O., et al. (See Lockwood and Patterson, assignors.)						
Seward, Oliver G., O. E. Mille, and M. J. Ham, Minneapolis, Minn. Automatic gas-generator	560,549	May 19	2192	500	75	1152
Seward, William K. (See Klose, Karl A., assignor.)						
Seward, William B., Bloomington, Ind. Game device	563,419	July 7	306	69	76	60
Sewerson, Andrew, Roseland, Ill. Rotary harrow	566,234	Aug. 18	2317	567	76	1090
Sexton, Michael H., Utica, N. Y. Nutmeg-grater	559,543	May 5	337	82	75	748
Seybold, Charles, assignor to Seybold Machine Company, Dayton, Ohio. Cutting-machine	557,157	Mar. 31	2976	711	74	1761
Seybold, Christian, Zweibrücken, Germany. Mechanism for varying throw of cranks	560,434	May 19	2007	460	75	1120
Seybold, Christian, Zweibrücken, Germany. Loom	570,234	Oct. 27	2669	635	77	544
Seybold, Christian, Zweibrücken, Germany. Variable-speed friction-gear	570,235	Oct. 27	2670	635	77	544
Seybold Machine Company. (See Seybold, Charles, assignor.)						
Seyfang, George, Buffalo, N. Y. Bicycle	558,852	Apr. 21	2338	569	75	473
Seyfarth, Otto F., New York, N. Y. Harness-saddle	562,251	June 16	2089	506	75	1-08
Seymour, Albert P. (See Pass and Seymour.)						
Seymour, Benjamin F., Cleveland, Ohio, assignor to B. F. Seymour, Jr., Denver, Colo. Street-car fender	573,434	Dec. 15	2412	574	77	1771
Seymour, Charles, assignor to Defiance Machine Works, Defiance, Ohio. Wood-bending machine	560,008	May 12	1206	268	75	924
Seymour, Charles E., Lake Geneva, Wis. Ore-concentrator	560,435	May 19	2008	{ 460 461 }	75	1121
Seymour, Charles J., Brookline, assignor of one-third to W. W. Carter, Boston, Mass. Bicycle	566,027	Aug. 18	1923	480	76	1028
Seymour, George L., assignor of two-thirds to C. L. Dexter, Philadelphia, Pa. Wrench	568,224	Sept. 22	2721	652	76	1830
Seymour, Henry A., Washington, D. C. Trolley for electric railways	557,442	Mar. 31	3495	836	74	1855
Seymour, Henry A., Washington, D. C. Automatic speed-controller for electric cars	562,925	June 30	3275	791	75	2066
Seymour, Henry A., Washington, D. C. Electric-arc lamp	570,823	Nov. 3	730	167	77	774
Seymour, Henry A., Washington, D. C. Electric-arc lamp	570,824	Nov. 3	732	{ 167 168 }	77	774
Seymour, Henry A., Washington, D. C. Electric-arc lamp	574,117	Dec. 29	3661	874	77	2036
Seymour, Henry A., Washington, D. C. Electric-arc lamp	574,118	Dec. 29	3664	{ 874 875 }	77	2036
Seymour, Henry A., Washington, D. C. Electric-arc lamp	574,119	Dec. 29	3669	875	77	2037
Seymour, Henry A., Washington, D. C., assignor to General Electric Company, of New York. Trolley	562,494	June 23	2492	604	75	1899
Seymour, Henry A., Washington, D. C., assignor to General Electric Company, of New York. Trolley for electric railways	569,889	Oct. 20	2049	488	77	413
Seymour, Henry A., Washington, D. C., assignor to General Electric Company, of New York. Trolley for electric railways	572,933	Dec. 8	1462	356	77	1582
Seymour, Herbert P., assignor of two-thirds to H. Price and C. W. Dougherty, Hartford, Conn. Means for securing screw-hooks, &c., in ceilings or other high structures	562,041	June 16	1741	421	75	1743
Seymour, Horace A., Detroit, Mich. Rail joint and chair	558,527	Apr. 21	1795	436	75	373
Shadbolt, Helon F., assignor to Excelsior Wrapper Company, Sheboygan, Wis. Machine for manufacturing excelsior wrappers or pads	570,236	Oct. 27	2672	{ 636 637 }	77	545
Shadbolt, William O., Brooklyn, N. Y. Wagon	561,822	June 9	1365	328	75	1652
Shadburn, Wylie B., Buford, Ga. Collar-machine	572,912	Dec. 8	1427	344	77	1573
Shaeffer, Barbara. (See McClary, Frank O., assignor.)						
Shaeffer, Urias, Lancaster, Ohio. Hand corn-planter	571,935	Nov. 24	2684	635	77	1201
Shafer, Eli, Tekama, Nebr. Ink-bottle	562,856	June 30	3155	764	75	2041
Shafer, John W., assignor of one-half to C. P. Patterson, Chicago, Ill. Car-signal	570,510	Nov. 3	133	31	77	663
Shafer, Joseph, San Bernardino, Cal. Wrench	561,823	June 9	1366	328	75	1652
Shafer, George. (See Emig, Jacob, assignor.)						
Shafer, Henry E., assignor to Shafer Lamp Company, Rochester, N. Y. Air-distributor for lamps	555,187	Feb. 25	2461	583	74	1014
Shafer Lamp Company. (See Shafer, Henry E., assignor.)						
Shaffer, William J., assignor of one-half to C. E. Fawcett, Galveston, Ind. Plate or pan lifter	554,545	Feb. 11	1313	308	74	765
Shaffer, William T., Evanston, Wyo. Elevated-railway car	565,124	Aug. 4	306	73	76	673
Shailer, George W., and J. S. Watchorn, Palmerston North, New Zealand. Cultivator	555,623	Mar. 3	236	55, 56	74	1173
Shailer, William W., and H. P. Chapman, assignors to Comstock Cheney & Company, Ivoryton, Conn. Automatic machine for producing piano-action parts	567,796	Sept. 15	1839	{ 441 442 496 197 }	76	1652
Shakel, William S., Metamora, Ind. Shock-forming attachment for harvesters and binders	559,819	May 12	837	{ 196 197 }	75	855
Shallenberger, Oliver B., Rochester, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. System of electrical distribution	571,849	Nov. 24	2521	597	77	1168
Shanahan, Edward J. (See Latulip, Frederick, assignor.)						
Shane, George P. (See Lucas, Austin H., assignor.)						
Shaner, Maconius. (See Burner and Shaner.)						
Shank, David A., assignor of one-half to A. L. Ross, Versailles, Mo. Hay-fork	573,709	Dec. 22	2928	692	77	18-7
Shank, John C. (See De Witt, Clinton C., assignor.)						
Shank, John C., et al. (See Cramer, John, assignor.)						
Shank, Orey D., assignor to Gilliam Manufacturing Company, Canton, Ohio. Horse-shield	566,480	Aug. 25	2801	681	76	1197

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Shankey, John, St. Louis, Mo. Sliding window-screen.....	565,304	Aug. 4	659	158	76	737
Shanklin, Philip A., assignor of one-half to W. R. Jones, Centralia, Ill. Traveling wardrobe.....	565,305	Aug. 4	660	158	76	737
Shanks, John S. D., assignor of two-thirds to J. MacCormac, Belfast, and T. Harrison, Craigwood House, County Down, Ireland. Furnace for steam-boilers.....	562,252	June 16	2090	506 } 507 }	75	1808
Shannon, Dewitt C., Cherokee City, Ark. Stock-marker.....	573,110	Dec. 15	1800	433	77	1861
Shannon, James C. (See Jordan, Thomas R., assignor.)						
Shannon, Oscar M., Riverside, Ill. Combined support and keeper for bicycles.....	537,900	Apr. 7	657	158	75	124
Shapiro, Aaron, assignor of one-third to H. Goldberg, Chicago, Ill. Car-coupling.....	558,116	Apr. 14	1086	266	75	222
Sharar, Fredrick H., Williamsport, Pa. Valve.....	570,568	Nov. 3	255	63, 64	77	685
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Corn-harvester.....	569,242	Oct. 13	908	217 } 218 }	77	190
Sharp, Edward A., Chicago, Ill. Paper-file.....	554,500	Feb. 11	1246	291	74	751
Sharp, Frank, Mount Auburn, Ky. Can-opener.....	557,158	Mar. 31	2979	711	74	1762
Sharp, Frank, Mount Auburn, Ky. Pipe-tapping machine.....	561,620	June 9	1000	240	75	1584
Sharp, George H., et al. (See Perkins, Clarence E., assignor.)						
Sharp, John C., Delavan, Wis. Stump-extractor.....	555,977	Mar. 10	849	203	74	1309
Sharp & Smith. (See Weder, Paul J., assignor.)						
Sharp, William E., Andrews, Ind. Puzzle.....	560,305	May 19	1776	404	75	1078
Sharpe, Chauncey, and H. H. Argue, Derrick City, Pa. Apparatus for operating oil-well pumps.....	563,812	July 14	982	234	76	200
Sharpe, George C., Columbus, Ohio. Draft-tube for locomotive-boiler furnaces.....	561,621	June 9	1003	240	75	1585
Sharpe, John, and J. A. Banfield, assignors to D. MacLaren, Ottawa, Canada. Cash-reg- ister.....	571,098	Nov. 10	1223	286 } 287 }	77	894
Sharpington, William H., London, England. Combined pick and shovel.....	562,926	June 30	3277	791	75	2067
Sharples, Philip M., West Chester, Pa. Pipette.....	553,044	Jan. 14	1010	247	74	203
Sharples, Philip M., West Chester, Pa. Centrifugal separator.....	570,737	Nov. 3	592	136	77	747
Sharples, William E., Fall River, Mass. Separator for spinning-machines.....	556,109	Mar. 10	1106	263	74	1354
Sharples, William E., Fall River, Mass. Separator mechanism.....	559,465	May 5	201	44	75	720
Sharples, William E., Fall River, Mass. Separator mechanism. (Reissue).....	11,562	Aug. 11	1692	414	76	952
Sharples, William E., Fall River, Mass. Yarn-beam truck.....	567,417	Sept. 8	1217	291	76	1519
Sharpneck, Eliel L. (See Knox and Sharpneck.)						
Sharpneck, Eliel L., and G. F. Knox, Chicago, Ill. Refrigerating-machine.....	559,753	May 5	685	163 } 164 }	75	812
Sharpneck, William S., et al. (See Gilliland, Lee O., assignor.)						
Shartle, John M., Middletown, Ohio. Lubricator.....	558,528	Apr. 21	1797	436	75	373
Shattuck, William B., Cincinnati, Ohio. Continuous-strip mileage-ticket.....	559,870	May 12	955	213	75	876
Shattuck, William P., Minneapolis, Minn. Syringe.....	565,516	Aug. 11	1059	254	76	832
Shauer, Louis S., Chicago, Ill. Trousers.....	555,587	Mar. 3	174	40, 41	74	1162
Shaver, Edward D., assignor of one-half to H. R. Van Hoesen, Niverville, N. Y. Reclin- ing-chair swing and fan.....	563,420	July 7	308	70	76	61
Shaver, William A., Cheboygan, Mich. Hose-coupling.....	562,855	June 30	3154	764	75	2041
Shaw, Albert H., et al. (See Carr, Warren H., assignor.)						
Shaw, Annie E., Springfield, Mass. Educational appliance.....	555,026	Feb. 18	2170	517	74	941
Shaw, Clarence P., assignor of two-thirds to C. N. Cobb, Abington, and E. L. Sprague, Boston, Mass. Heel-cushion for boots or shoes.....	569,589	Oct. 13	1519	357	77	302
Shaw, Clifford. (See Young and Shaw.)						
Shaw, Edgar, Swampscott, Mass. Rotary stand for baking, &c.....	557,344	Mar. 31	3328	799	74	1823
Shaw, Edward A., Buglawton, England. Manufacture of pottery, tile, &c.....	566,420	Aug. 25	2663		76	1173
Shaw, Edward C. and G. R., Rushmore, Minn. Band-cutter and feeder.....	563,078	June 30	3573	857	75	2126
Shaw, Edward S., Cambridge, Mass. Bascule or tilting bridge.....	564,164	July 14	1649	385 } 386 }	76	322
Shaw Electric Rasp Company. (See Shaw, William, assignor.)						
Shaw, Frederick E. (See Burlingame, Fred E., assignor.)						
Shaw, George R. (See Shaw, Edward C. and G. R.)						
Shaw, George V., et al. (See Donnellan, James S., assignor.)						
Shaw, Henry F., assignor of one-half to S. A. Randall, Boston, Mass. Railway-car brake- shoe.....	555,343	Feb. 25	2743	642	74	1066
Shaw, James C., Grand Rapids, Mich. Bill-file.....	562,667	June 23	2795	679	75	1956
Shaw, John, Woodburn, Ore. Draw-bar for railway-cars.....	560,436	May 19	2014	461	75	1121
Shaw, John, Woodburn, Ore. Railway-car.....	569,676	Oct. 20	1679	398	77	348
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Snap-hook.....	553,137	Jan. 14	1178	266	74	237
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Snap-hook.....	553,432	Jan. 21	1701	406	74	346
Shaw, Levi M., assignor to H. C. Staver, Chicago, Ill. Air-compressor.....	552,590	Jan. 7	149	41	74	29
Shaw, Lorenzo D. B., Brooklyn, N. Y. Life-saving apparatus.....	568,960	Oct. 6	419	93, 94	77	80
Shaw, Noah, Eau Claire, Wis. Band-saw mill.....	562,042	June 16	1743	422	75	1744
Shaw, Noah T., et al. (See Shaw, William F., assignor.)						
Shaw, Otis M. (See Crosby, Edward H., assignor.)						
Shaw, Thomas F., et al. (See Corbett, Joseph, assignor.)						
Shaw, Walter, trustee. (See Day, George W., assignor.)						
Shaw, Walter, Boston, Mass. Hand tacking-machine.....	569,590	Oct. 13	1521	358	77	302
Shaw, Walter, Boston, Mass. Lasting-machine.....	571,404	Nov. 17	1731	412	77	1003
Shaw, Walter W., Texarkana, Ark. Bicycle.....	571,983	Nov. 24	2764	652	77	1215
Shaw, William, assignor to Shaw Electric Rasp Company, Detroit, Mich. Rasp.....	570,511	Nov. 3	134	33	77	663
Shaw, William B., Brooklyn, N. Y., assignor to J. Myers, Hatborough, Pa. Extensible tip for shade-rollers.....	564,111	July 14	1548	364	76	304
Shaw, William F., Columbus, assignor of three-fourths to N. T. Shaw, C. W. Critchfield, and O. W. Aldrich, Franklin county, Ohio. Combined coffin-truck, embalming-table, &c.....	573,303	Dec. 15	2167	517	77	1723
Shaw, William H., Brooklyn, N. Y. Speed-measure for vehicles.....	558,315	Apr. 14	1423	349	75	287
Shay, William, East Portland, Ore. Car-coupling.....	565,517	Aug. 11	1160	254	76	832
Shea, Francis A., et al., administrators. (See Reece, John.)						
Sheaffer, Samuel S., Veedersburg, Ind. Spoke-socket.....	553,766	Jan. 28	2282	540	74	470
Sheahan, Maurice, Decatur, Mich. Railway and leveling same.....	568,879	Oct. 6	284	65	77	54
Shearer, Arthur B., Arroyo Grande, Cal. Fruit-drier.....	572,224	Dec. 1	231	55	77	1322
Shearer, George B., New York, N. Y. Pick for meloharps.....	566,806	Sept. 1	116	28	76	1303
Shearer, George W. M., Jackson, Mich. Potato-digger.....	573,798	Dec. 22	3061	725	77	1912
Shearer, Joseph, assignor of one-half to J. J. Troutman, Loveland, Ohio. Syringe.....	559,620	May 5	463	107	75	771
Shearer, Mahala, Pittsburg, Pa. Hook and eye.....	552,783	Jan. 7	526	129	74	99
Shearlock, Joseph G., assignor to New Haven Heating and Plumbing Company, New Haven, Conn. Hot-water heater.....	555,467	Feb. 25	2975	708	74	1108
Sheble, Horace. (See Hawthorne and Sheble.)						
Sheckler, John, Milesburg, Pa. Compound for exterminating thistles.....	553,991	Apr. 28	2593		75	538
Shedd, Edward W., Worcester, Mass. Water or other fluid meter.....	563,623	July 7	651	151	76	122
Shedlock, Alfred, Jersey City, N. J. Apparatus for separating and concentrating.....	558,213	Apr. 14	1243	304	75	252
Shedlock, Alfred, Jersey City, N. J. Wickless oil-lamp.....	562,927	June 30	3278	792	75	2067

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Sheedy, Dennis, Denver, Colo. Treating arsenical ores.....	558,745	Apr. 21	2162	-----	75	440
Sheets, William H. H., Pittsburg, Pa. Gate-valve.....	565,239	Aug. 4	567	133	76	719
Sheff, George W., and E. W. Riggs, Shoshone Agency, Wyo. Valve-operating mechanism for engines.....	564,112	July 14	1549	364	76	304
Sheffield Car Company. (See Susemihl, Francis G., assignor.)						
Sheffield, George V., assignor of one-half to F. Machauer, New York, N. Y. Water-alarm for tanks or boilers.....	566,235	Aug. 18	2320	568	76	1091
Sheffield, William A. (See Adams, Sheffield, and Hallam.)						
Shelly, Jay K., Chicago, Ill. Pipe-wrench.....	553,362	Jan. 21	1589	379	74	325
Shek, Frank P., Brooklyn, N. Y. Jumping toy.....	573,241	Dec. 15	2030	486	77	1702
Sheldon, Charles W., et al. (See Platte, George D., assignor.)						
Sheldon, Edward P., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Ink-roller mechanism.....	558,214	Apr. 14	1249	304	75	254
Sheldon, Edward P., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-machine.....	572,225	Dec. 1	232	55, 56	77	1322
Sheldon, George H., Chelmsford, Mass. Machine for cutting off I-beams.....	552,784	Jan. 7	527	129	74	99
				650		
Sheldon, Harry C., and W. Lockwood, Nottingham, England. Embroidering-machine.....	566,421	Aug. 25	2664	652	76	1173
				74		
Shellaberger, Charles D., De Kalb, Ill. Wire fence.....	555,666	Mar. 3	320	74	74	1187
Shellaberger, E. F. (See Hager, John F., assignor.)						
Shellaberger, Edward F. (See Shellaberger, George H., assignor.)						
Shellaberger, Edward F., De Kalb, Ill. Wire fence.....	572,317	Dec. 1	414	98	77	1358
Shellaberger, George H., assignor to E. F. Shellaberger, De Kalb, Ill. Wire-stretcher.....	562,928	June 30	3260	793	75	2067
Shellaberger, George H., assignor to E. F. Shellaberger, De Kalb, Ill. Fence-stretcher.....	571,405	Nov. 17	1732	412	77	1004
Shellaberger, Michael M., Beaver Falls, Pa., assignor to De Kalb Fence Company, De Kalb, Ill. Wire strip for fencing.....	564,541	July 21	2267	532	76	448
				144		
Shellenback, Peter, Liberty, Ind. Lathe for boring and facing pulleys.....	554,147	Feb. 4	639	145	74	621
Shellenberger, Wilson H., Hatfield, Pa. Puzzle.....	554,148	Feb. 4	641	145	74	622
Shelley, James H., et al. (See George, Henry H., assignor.)	566,236	Aug. 18	2322	568	76	1091
Shelley, Russell T., New Haven, Conn. Trunk-lock.....	556,906	Mar. 24	2547	600	74	1655
Shelley, Sivert H., Berryessa, Cal. Fruit-splitting machine.....	554,037	Feb. 4	429	95	74	584
Shellman, Oliver C. (See Thurman, Squire P., assignor.)						
Shelly, Thomas E. (See McDonough and Shelly.)						
Shelly, William P., assignor of one-fourth to A. R. Bowman, Independence, Kans. Pilot-bar coupling for locomotives.....	563,690	July 7	765	181	76	143
Shelmerdine, Anthony, Liverpool, assignor to National Opalite Glazed Brick and Tile Syndicate, Limited, London, England. Tile.....	572,454	Dec. 1	650	153	77	1402
Shelton, Frederick H., assignor to United Gas Improvement Company, Philadelphia, Pa. Gas-generator.....	563,328	July 7	170	38	76	35
Shelton, George W., Webb City, Mo. Inhaler.....	573,363	Dec. 15	2263	540	77	1744
Shelton, Lawson B., Denver, Colo. Child's folding bed.....	557,901	Apr. 7	661	159	75	125
Shelton, William K., and P. H. Stewart, Hopkins, Mo. Thread-cabinet.....	554,961	Feb. 18	2044	484	74	920
Shely, Richard W., Lexington, Ky. Apparatus for gathering seed or grain.....	566,099	Aug. 18	2102	512	76	1048
				513		
Shepard, Charles C., Elgin, Ill. Wire-stretcher.....	560,867	May 26	2818	646	75	1287
Shepard, Charles H., Ilion, assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type-writing machine.....	573,626	Dec. 22	2773	657	77	1859
				658		
Shepard, George B., and A. D. Pope, Ogdensburg, N. Y. Storm-window securer.....	564,294	July 21	1862	436	76	374
Shepard, Harvey G., assignor to H. G. Shepard & Sons, New Haven, Conn. Vehicle-wheel.....	558,316	Apr. 14	1424	349	75	287
Shepard, Harvey G., assignor to H. G. Shepard & Sons, New Haven, Conn. Wooden wheel-rim.....	564,802	July 28	2735	650	76	551
Shepard, James G. W., Edgewood, assignor to Fulford & Hobart, Providence, R. I. Cluster-setting for jewelry and tool for forming same.....	567,554	Sept. 8	1429	343	76	1558
Shepard, John F., assignor to S. H. Carroll and T. J. Birney, Jackson, Mich. Wagon-brake.....	553,138	Jan. 14	1180	286	74	237
Shepard & Sons, H. G. (See Shepard, Harvey G., assignor.)						
Shepard, Wilbur L., Elmwood, Conn. Feed-water heater.....	573,111	Dec. 15	1801	434	77	1661
Shepard, Wilbur L., and E. W. Whitlock, Elmwood, Conn. Hot-water heater.....	562,857	June 30	3156	764	75	2041
				765		
Shepard, William E., Long Island City, N. Y. Track-brush holder.....	565,144	Aug. 4	363	84	76	685
Shepardson, Arthur O. (See Dowling, Patrick J., assignor.)						
Shepfer, William A., St. Paul, Minn. Detergent and starch-polishing compound.....	560,758	May 26	2601	-----	75	1246
Shepheard, John H., assignor of two-thirds to R. C. Blackall, Albany, and C. J. Post, Brooklyn, N. Y. Lubricant-cup.....	554,092	Feb. 4	529	118	74	601
Shepherd, Benjamin F., Mendon, Ill. Guard for cutter-bars.....	572,728	Dec. 8	1138	274	77	1514
Shepherd, Crutcher D., assignor of one-twelfth to D. F. Williamson, Orlando, Fla. Dust-deflector for car-windows.....	560,236	May 19	1647	375	75	1057
Shepherd, Frank D., Aurora, Ill. Fire-box for locomotives.....	552,671	Jan. 7	297	79, 80	74	58
Shepherd, Frank D., Aurora, Ill. Steam-boiler and furnace.....	553,767	Jan. 28	2282	540	74	470
Shepherd, Laura M., Crete, Nebr. Canning-basket.....	568,805	Oct. 6	157	37	77	32
Shepley, Benjamin A., Timpson, Tex. Saw-awaging machine.....	561,349	June 2	509	128	75	1468
Sheppard, Frank, assignor of two-fifths to K. G. Whittaker, East St. Louis, Ill. Educational appliance.....	564,396	July 21	2036	478	76	407
Sheppard, Osborne H., Chicago, Ill. Stethoscope.....	563,421	July 7	308	70	76	61
Shepperd, Sylvanus D., assignor to Backus Water Motor Company, Newark, N. J. Governor for gas or gasoline engines.....	556,907	Mar. 24	2548	600	74	1655
Sheppey, Medor, and F. D. Moore, assignors of one-third to C. B. Campbell, Fort Scott, Kans. Station-indicator.....	569,771	Oct. 20	1864	442	77	379
				443		
Sherbondy, Joseph, assignor to Diamond Rubber Company, Akron, Ohio. Apparatus for manufacturing pneumatic tires.....	557,033	Mar. 24	2771	658	74	1698
Sherburne, Henry L. (See Matthews and Sherburne.)						
Sherer, George W., assignor of one-half to A. F. Judd, Rockford, Ill. Type-line justifier.....	555,907	Mar. 3	713	172	74	1262
Sheridan, Augustine B., assignor to E. Sheridan, Youngstown, Ohio. Hose-coupling.....	559,911	May 12	1039	230	75	891
Sheridan, Ellen. (See Sheridan, Augustine B., assignor.)						
Sheridan, Frank, assignor of one-half to W. E. Yager, Covington, Ky. Means and construction for inserting fittings under pressure.....	570,077	Nov. 10	1182	277	77	887
Sheridan, James, Franklin, Pa. Apparatus for handling paving-blocks.....	568,147	Sept. 22	2497	601	76	1787
Sheridan, James H., Flushing, assignor of nine-sixteenths to J. H. Dale and P. Farrell, Brooklyn, N. Y. Lifting-jack.....	558,427	Apr. 14	1616	392	75	322
Sheridan, John P. (See Williams, R. P., assignor.)						
Sherk, Charles P., J. L. Rutter, Lebanon, and S. Groh, Lickdale; said Groh assignor to said Sherk and S. Weiss, Lebanon, Pa. Manufacture of iron.....	553,875	Feb. 4	118	23	74	528

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Sherman, Albert R., Pawtucket, R. I. Support for spinning and twisting spindles.....	562,668	June 23	2796	679	75	1956
Sherman, Alonzo G. (See Matthews, Joseph, assignor.)						
Sherman, Belle C., <i>et al.</i> (See Sherman, George C., assignor.)						
Sherman, Chauncey A. (See Snow and Sherman.)						
Sherman, George C., assignor to L. L. Gridley, Alfred, N. Y. Potato-planter	552,929	Jan. 14	828	201	74	169
Sherman, George C., assignor to B. C. and R. Sherman, Chicago, Ill., and M. W. Sherman, Milwaukee, Wis. Clamp for bicycle-pedals	562,858	June 30	3157	765	75	2042
Sherman, George H., Detroit, Mich. Hydrocarbon-burner	560,654	May 26	2433	556	75	1213
Sherman, Guy, Lawrence, Kans. Wheel-hub	572,618	Dec. 8	934	227		
Sherman, James, Cambridgeborough, Pa. Stone-lewis	560,329	May 19	1816	413	75	1885
Sherman, John A. (See Dennis, Metcalfe, and Sherman.)						
Sherman, Le Roy K., Chicago, Ill. Scale-measuring attachment	564,342	July 21	1942	458	76	389
Sherman, Martin W., <i>et al.</i> (See Sherman, George C., assignor.)						
Sherman, Richard E., and D. E. Kenyon, Chicago, Ill. Underground-trolley system	565,240	Aug. 4	568	133	76	719
Sherman, Rollin, <i>et al.</i> (See Sherman, George C., assignor.)						
Sherman, William C., Sidney, N. Y. Horse-shoof protector	568,961	Oct. 6	420	94	77	80
Sherman, William C., Orlando, Fla. Fountain-pen	570,717	Nov. 3	549	128	77	740
Sherwin, V. P., <i>et al.</i> (See Ramage, Alexander S., assignor.)						
Sherwood, Arthur K. (See Borland and Sherwood.)						
Sherwood, Charles H., Utica, assignor of one-half to H. C. Lyman, Sherburne, N. Y. Rail-way block-signal	559,954	May 12	1106	247	75	903
Sherwood, Charles H., Utica, assignor of one-half to H. C. Lyman, Sherburne, N. Y. Electric signal	562,929	June 30	3281	793		
Sherwood, Charles H., Utica, assignor of one-half to H. C. Lyman, Sherburne, N. Y. Automatic pneumatic railway-gate	564,260	July 21	1801	422	76	364
Sherwood, Charles H., Utica, assignor of one-half to H. C. Lyman, Sherburne, N. Y. Automatic pneumatic railway-gate	565,929	Aug. 18	1799	423		
Sherwood, Earl, assignor of one-fourth to G. W. Lane and F. M. Spencer, Honesdale, Pa. Piano-hammer	563,079	June 30	3575	858	75	2127
Shesler, Daniel A., Toledo, Ohio. Carbon for arc-lamps	570,825	Nov. 3	735		77	775
Shetterly, William H., Kalamazoo, Mich. Hammock-spreader	560,285	May 19	1738	395	75	1073
Shewell, Emory N., Shrewsbury, assignor of one-half to H. Schroeder, Railroad, Pa. Hand stamp canceler and register	559,148	Apr. 28	2911	703	75	598
Shickluna, Joseph J., Buffalo, N. Y. Mast-arm for electric lamps	559,066	Apr. 28	2720	661	75	562
Shields, Andrew M., Oakland, assignor by mesne assignments, to Morasco, Shields & Bishop Fusion Company, San Francisco, Cal. Lead-bath apparatus for working ores	552,624	Jan. 7	205	57	74	40
Shields, D. P. (See Graham, Jesse A., assignor.)						
Shields, Frank H. (See Robinson, Frick, and Shields.)						
Shields, Henry P. (See Cronin and Shields.)						
Shields, John, Jr., <i>et al.</i> (See Young, John R., assignor.)						
Shields, P. T. (See Ezzell, Fletcher, assignor.)						
Shields, Sarah A. (See Levinge, Elizabeth, assignor.)						
Shiels, Alexander, Glasgow, Scotland. Automatic governor for refrigerating plants	553,077	Jan. 14	1075	262	74	216
Shiels, Alexander, Glasgow, Scotland. Cow-milker	556,217	Mar. 10	1307	306	74	1390
Shiels, Alexander, Glasgow, Scotland. Teat-cup for milking-machines	557,241	Mar. 31	3153	755		
Shiels, Alexander, Glasgow, Scotland. Milking-machine	558,666	Apr. 21	2033	756	75	415
Shilling, John T., Fisher's, N. Y. Wind-wheel	565,804	Aug. 11	1562	380	76	926
Shimer, Elmer S. (See Shimer, Samuel J. and E. S.)				381		
Shimer, Samuel J., Milton, Pa. Planer-knife	555,741	Mar. 3	436	103	74	1208
Shimer, Samuel J., Milton, Pa. Cutter-head	555,742	Mar. 3	437	103	74	1208
Shimer, Samuel J., Milton, Pa. Cutter-head	555,743	Mar. 3	438	104		
Shimer, Samuel J., Milton, Pa. Cutter-head and bit	567,815	Sept. 15	1889	452	76	1662
Shimer, Samuel J., Milton, Pa. Templet for cutter-heads	573,304	Dec. 15	2169	517	77	1726
Shimer, Samuel J. and E. S., Milton, Pa. Type-writing machine	563,080	June 30	3576	858	75	2127
Shindler, Christian P., Vancouver, Canada. Air-heating apparatus	558,215	Apr. 14	1251	304	75	254
Shinsky, Morris, Newark, N. J. Interchangeable slat for shutters, blinds, &c	572,776	Dec. 8	1218	305		
Shipley, Alfred J., and T. R. Hyde, Jr., assignors to Scovill Manufacturing Company, Waterbury, Conn. Car-seal	556,029	Mar. 10	954	227	74	1327
Shipley, Peter C., Red Oak, Iowa. Thill-support	565,865	Aug. 11	1681	412	76	950
Shipman, Charles F., assignor of one-half to H. Copperthite, Washington, D. C. Cabinet or safe for pies, &c	568,706	Sept. 29	3490	834	76	1989
Shipman, Madison D. (See Reynolds and Shipman.)				835		
Shipman, Madison D., <i>et al.</i> (See Fringle, Eugene, assignor.)						
Shipman, Madison D., <i>et al.</i> (See Reynolds, Walter S., assignor.)						
Shirer, John W., Pittsburg, Pa. Roofing-bracket	568,003	Sept. 22	2216	535	76	1735
Shirley, Elmer J., and C. W. Merrill, El Modena, Cal.; said Merrill assignor to said Shirley. Hay-press	558,216	Apr. 14	1253	305	75	254
Shirley, Robert. (See Searles and Shirley.)						
Shirley, William W., Westlake, La. Relief-valve	569,943	Oct. 20	2157	511	77	434
Shivel, M. V., <i>et al.</i> (See Holzheimer, Henry C., assignor.)						
Shively, Edward. (See Shively, Joseph M., assignor.)						
Shively, Joseph M., assignor of one-half to E. Shively, Alfred, Kans. Corn-cutter	559,754	May 5	689	164	75	812
Shnicke, Otto, Three Lakes, Wis. Bow-facing oar	568,707	Sept. 29	3491	835	76	1989
Shober, Arthur E., Wichita, Kans. Fire-extinguisher	558,529	Apr. 21	1798	437	75	374
Shober, Will B., Cumberland, Md., and H. M. Ullmann, Springfield, Mo. Compound for grease-proofing articles	570,965	Nov. 10	985		77	850
Shoch, Fred L., <i>et al.</i> (See Burton, Charles, assignor.)						
Shockley, Lemuel R., Milford, Del. Rail-joint	569,066	Oct. 6	602	137	77	115
Shoe, William W., Wallingford, Pa. Bicycle-saddle	558,217	Apr. 14	1256	306	75	255
Shoe, William W., Wallingford, Pa. Bicycle-saddle	558,218	Apr. 14	1257	306	75	255
Shoecraft, Judson, Harveyville, Kans. Railway-crossing signal	565,518	Aug. 11	1061	254	76	832
Shoecraft, Judson, Harveyville, assignor to Western Railway Signal Company, Topeka, Kans. Automatic block system	562,253	June 16	2091	507		
Shoemaker, John, <i>et al.</i> (See Holton and Malsch, assignors.)						
Shoenberger Steel Company. (See Steiner and Babbitt, assignors.)						
Sholder, Louis H., Cleveland, Ohio. Lawn-sprinkler	569,243	Oct. 13	911	218	77	190
Sholes, Christopher L., Milwaukee, Wis., assignor to E. R. Barron, D. C. Roundy, and C. W. Seamans, executors of James Densmore, deceased. Type-writing machine	558,428	Apr. 14	1618	392	75	322
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Sholes, Christopher L., Milwaukee, Wis., assignor to E. R. Barron, D. C. Roundy, and C. W. Seamans, executors of James Densmore, deceased. Type-writing machine.....	559,621	May 5	464	107 108	75	771
Sholes, Christopher L., Milwaukee, Wis., assignor, by mesne assignments, to Wyckoff, Seamans & Benedict, of New York. Type-writing machine.....	559,755	May 5	692	164 165	75	813
Sholes, Christopher L., Milwaukee, Wis., assignor, by mesne assignments, to Wyckoff, Seamans & Benedict, of New York. Type-writing machine.....	559,756	May 5	698	166 167	75	814
Sholes, Christopher L., Milwaukee, Wis., assignor, by mesne assignments, to Wyckoff, Seamans & Benedict, of New York. Type-writing machine.....	568,630	Sept. 29	3349	802 803	76	1962
Sholes, Zalmon G., Chicago, Ill., assignor to Remington-Sholes Typewriter Company, of Illinois. Type-writing machine.....	557,617	Apr. 7	153	40	75	30
Sholes, Zalmon G., Chicago, Ill., assignor to Remington-Sholes Typewriter Company, of Illinois. Type-writing machine.....	557,618	Apr. 7	156	41	75	31
Sholes, Zalmon G., Chicago, Ill., assignor to Remington-Sholes Typewriter Company, of Illinois. Type-writing machine.....	557,619	Apr. 7	158	41	75	31
Shone, James W., and R. J. Hanna, Rochester, N. Y. Toe-clip for bicycle-pedals.....	559,225	Apr. 28	3068	741	75	628
Shonnard, Harold W. (See Scott and Shonnard.)						
Shoots, James D., Horseheads, N. Y. Spray-nozzle.....	567,925	Sept. 15	2048	492	76	1693
Short Electric Railway Company. (See Short, Sidney H., assignor.)						
Short, Mace B., et al. (See Stone, Samuel N., assignor.)						
Short, Robert L., assignor of one-half to C. Smith, Cleveland, Ohio. Automatic regulator for furnaces.....	569,944	Oct. 20	2158	512	77	434
Short, Sidney H. (See Uebelacker, Charles F., assignor.)						
Short, Sidney H., Cleveland, Ohio. Construction of dynamo-electric machines.....	565,930	Aug. 18	1806	439	76	991
Short, Sidney H., Cleveland, Ohio. Armature-winding.....	565,931	Aug. 18	1807	440	76	992
Short, Sidney H., Cleveland, Ohio. Trolley-pole for electric cars.....	566,237	Aug. 18	2323	568	76	1091
Short, Sidney H., Cleveland, Ohio. Trolley-support for electric railways.....	566,345	Aug. 25	2510	615	76	1143
Short, Sidney H., Cleveland, Ohio. Electric locomotive.....	567,662	Sept. 15	1626	392	76	1611
Short, Sidney H., Cleveland, Ohio. Brush-holder.....	568,413	Sept. 29	2942	707	76	1887
Short, Sidney H., Cleveland, Ohio. Armature-winding.....	568,414	Sept. 29	2946	708	76	1888
Short, Sidney H., Cleveland, Ohio. Flat winding for armatures.....	568,415	Sept. 29	2948	708	76	1888
Short, Sidney H., Cleveland, Ohio. Method of and means for electric generation.....	569,591	Oct. 13	1521	358	77	303
Short, Sidney H., Cleveland, Ohio. Trolley-support for electric railways.....	569,772	Oct. 20	1268	443	77	380
Short, Sidney H., assignor to Short Electric Railway Company, Cleveland, Ohio. Electric-motor support.....	564,902	July 28	2890	692	76	580
Shorter, Sydney. (See Stanbridge, Samuel, assignor.)						
Shortsleeve, David, Rutland, Vt., assignor of one-half to J. T. Webster, Cambridge, Mass. Stone-working machinery and rubbing bed-plate therefor.....	563,081	June 30	3577	858 859	75	2127
Shotwell, Phebe M., Linden, Mich. Convertible chair.....	560,547	May 19	2189	499	75	1152
Shough, Jacob L. (See Brunner and Shough.)						
Shoup, Joel O., et al. (See Yost, George B., assignor.)						
Shoup, Samuel, Aldan, Pa. Check sales or order book.....	559,632	May 5	467	108	75	772
Shoup, Samuel, Clifton Heights, Pa. Autographic register.....	561,350	June 2	511	128 129	75	1468
Shoup, Samuel K., and J. A. Hoeffer, Creston, Ohio. Cigar-mold.....	555,978	Mar. 10	854	203	74	1310
Shoup, William F., and H. P. Vogan, Derrick City, Pa. Car-coupling.....	560,437	May 19	2015	461	75	1122
Shourek, John, Allegheny, Pa. Brake mechanism.....	571,697	Nov. 17	2230	536 537	77	1095
Shover, Barton R., Indianapolis, Ind., and F. P. Townsend, Asbury Park, N. J. Electric-railway system.....	569,432	Oct. 13	1227	288	77	249
Showalter, John W., and J. N. Carver, Altoona, Kans. Gate.....	571,140	Nov. 10	1304	303	77	908
Shrader, Charles D., Logan, Neb. Safety attachment for cars.....	555,908	Mar. 3	714	172	74	1262
Shrady, Henry M., New York, N. Y. Brush-machine.....	562,930	June 30	3285	793	75	2069
Shrier, Henry, New York, N. Y. Supporter for trousers.....	552,785	Jan. 7	523	129	74	99
Shrope, Albert J., assignor of one-half to J. K. Milbourne, Mechanicsville, Iowa. Device for opening or closing gates, barn-doors, &c.....	570,412	Oct. 27	3034	719	77	611
Shuart, Benjamin F., Oberlin, Ohio. Elevating and transferring apparatus.....	557,345	Mar. 31	3330	799	74	1823
Shufelt, John H., Dolores, N. Mex. Ter. Gold-separating machine.....	556,779	Mar. 24	2336	550 551	74	1615
Shull, Benjamin F. (See Long and Shull.)						
Shull, John H., Wellesley, assignor of one-half to F. W. Stevens, Boston, Mass. Grip for sash-supports.....	568,708	Sept. 29	3493	835 836	76	1990
Shull, John H., Wellesley, assignor of one-half to F. W. Stevens, Boston, Mass. Window-appliance.....	573,489	Dec. 22	2522	597 598	77	1809
Shull, John H., Boston, assignor of one-half to F. W. Stevens, Newton, Mass. Blind-hinge.....	573,544	Dec. 22	2611	620	77	1826
Shull, John H., Boston, assignor of one-half to F. W. Stevens, Newton, Mass. Window-sash.....	573,545	Dec. 22	2613	620	77	1826
Shull, Joseph C., assignor to Meriden Bronze Company, Meriden, Conn. Lamp-burner.....	554,038	Feb. 4	431	95	74	584
Shultice, Ro. W., et al. (See Sears, Sydney L., assignor.)						
Shultz, David F. (See Cogniasse and Shultz.)						
Shultz, Jacob F., San Jacinto, Cal. Scissors or shears.....	560,237	May 19	1649	375	75	1058
Shultz, Edward L., Chicago, Ill. Bearing-bracket for bicycles.....	571,289	Nov. 10	1544	366	77	954
Shultz, Leo. (See McNaughton, John G., assignor.)						
Shuman, Frank, assignor to Wire Glass Company, Philadelphia, Pa. Machine for embedding wire in glass.....	561,920	June 9	1526	370	75	1683
Shumate, James S., and H. W. Bartels, Honck, Mo. Fly-trap.....	556,647	Mar. 17	2096	490	74	1553
Shurtleff, Asahel M., assignor to Codman & Shurtleff, Boston, Mass. Testing device for pneumatic-tire valves.....	555,344	Feb. 25	2745	643	74	1066
Shurtleff, William R., Oconto, Wis. Stopper-fastener.....	556,378	Mar. 17	1635	383	74	1467
Shute, Henry. (See Cederberg, Carl, assignor.)						
Shutt, Frederick O. P. (See Anderson and Shutt.)						
Shuttleworth, Alpheus C., Philadelphia, Pa., assignor to Shuttleworth Electric Company of New Jersey. Electromagnetic induction system of propulsion.....	554,962	Feb. 18	3046	485	74	920
Shuttleworth, Alpheus C., assignor to H. A. Engle, Philadelphia, Pa. Electromagnetic pin-extractor attachment for cloth-finishing machines.....	567,619	Sept. 15	1548	373	76	1595
Shuttleworth, Alpheus C., Philadelphia, Pa., assignor to G. Draper & Sons, Hopedale, Mass. Electromagnetic warp stop-motion for looms.....	570,738	Nov. 3	594	136	77	747
Shuttleworth Electric Company of New Jersey. (See Shuttleworth, Alpheus C., assignor.)						
Sibbrel, Wesley, Fremont, Ohio. Sleigh-runner.....	553,215	Jan. 14	1321	321	74	262
Sibley, Harrington, et al. (See Chapman, George D., assignor.)						
Sibley, James T., Clinton, Canada, assignor, by mesne assignments, to J. M. Drysdale, trustee, New York, N. Y. Phase-completing device.....	552,553	Jan. 7	84	23	74	19
Sicard, Luke E., and J. Frazee, New Orleans, La. Car-fender.....	554,149	Feb. 4	642	145	74	622
Siccardi, Giovanni B., Washington, D. C. Wig-making apparatus.....	553,433	Jan. 21	1702	406	74	316
Siccardi, Giovanni B., New York, N. Y. Snow-cleaning apparatus.....	556,648	Mar. 17	2098	491	74	1554

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Sickell, W. J., <i>et al.</i> (See Layton, Edward L., assignor.)						
Sickels, Anna, Bristol, Pa. Roasting-pan	553,363	Jan. 21	1590	379	77	325
Siddall, Archibald, Bondi, New South Wales. Picture-hanger	571,698	Nov. 17	2234	537	74	1095
Sidney Shepard & Company. (See Ferber, Anthony, assignor.)						
Sidway, Henry T., Chicago, Ill. Tobacco-moistener	562,495	June 23	2495	604	75	1900
Sidwell, Arthur, Waltham, assignor to himself, and W. Measure, Highlandville, Mass. Bicycle-frame	571,406	Nov. 17	1732	413	77	1004
Sieben, Henry, Kansas City, Mo. Valve	557,902	Apr. 7	662	159	75	125
Siebenfoercher, Anthony S., Kenton, Ohio. Folding portable confessional	570,512	Nov. 3	135	33	77	663
Siebler, George E., Dayton, Ohio. Tobacco-pouch	556,442	Mar. 17	1757	408	74	1491
Siegel, Frederick W., assignor to J. Fergg, Newark, N. J. Chuck	563,813	July 14	984	234	76	200
Siegenthaler, George, Fremont, Ohio. Hame attachment	568,880	Oct. 6	285	65	77	55
Sieghardt, Otto T. de, New York, N. Y. Apparatus for generating and storing acetylene gas	558,746	Apr. 21	2162	521	75	410
Sieh, Hans H., Millard, Nebr. Combination-cart	562,043	June 16	1747	422 423	75	1744
Siehr, William H. (See Georg, Carl R., assignor.)						
Siemens & Halske. (See Encke and Frölich, assignors.)						
Siemens & Halske. (See Fröhlich, Oscar, assignor.)						
Siemens & Halske Electric Company of America. (See Badt, Francis B., assignor.)						
Siemens & Halske Electric Company of America. (See Badt and Lyford, assignors.)						
Siemens & Halske Electric Company of America. (See Hayn, Friedrich W. N. E., assignor.)						
Siemens & Halske Electric Company of America. (See Hefner-Alteneck and Görges, assignors.)						
Siemens & Halske Electric Company of America. (See Hoffmann, Ernst G. W. C., assignor.)						
Siemens & Halske Electric Company of America. (See Lyford, Oliver S., Jr., assignor.)						
Siemens & Halske Electric Company of America. (See Meissner, Adolf E. W., assignor.)						
Siemens & Halske Electric Company of America. (See Oelschläger and Schrottke, assignors.)						
Siemens & Halske Electric Company of America. (See Queisser, Paul F. H., assignor.)						
Siemens & Halske Electric Company of America. (See Reichel, Emil B. W., assignor.)						
Siemens & Halske Electric Company of America. (See Schwieger, Carl T. H., assignor.)						
Siemens & Halske Electric Company of America. (See Stobrawa, Max, assignor.)						
Sieurin, George, Worcester, Mass. Conveyor	562,931	June 30	3287	794	75	2069
Sigelen, Christian A., Indianapolis, Ind. Pneumatic inkstand	566,346	Aug. 25	2513	615	76	1143
Sigler, Samuel B., Martinsburg, W. Va. Detachable leg for tables	556,869	Mar. 24	2485	586	74	1644
Sigler, Samuel W. (See Hayes, Porter C., assignor.)						
Sigmund, Louis, Naperville, Ill. Machine for cutting cheese, &c.	553,434	Jan. 21	1705	406 407	74	347
Sigmund, Louis, Naperville, Ill. Cheese-press	572,455	Dec. 1	651	153	77	1402
Sigsby, William B., Harbor Springs, Mich. Extensible folding trestle	561,138	June 2	105	29	75	13-7
Silberman, Abraham, Baltimore, Md. Suspender-end clasp	568,588	Sept. 29	3276	787	76	1947
Silberman, Jacob, New York, N. Y. Bicycle costume	573,168	Dec. 15	1896	456 457	77	1678
Silberstein, Albert L., New York, N. Y. Safety-razor	568,212	Sept. 22	2599	626	76	1806
Silcott, London, Mount Vernon, Ohio. Rod or bolt cutter	569,067	Oct. 6	603	137	77	116
Silk, Frederick H., <i>et al.</i> (See Huxtable, James, assignor.)						
Sill, Alfred, deceased, Philadelphia, Pa.; E. M., A. H., and C. Sill, executors. Breech-loading firearm	569,244	Oct. 13	913	218	77	190
Sill, Alfred H., <i>et al.</i> , executors. (See Sill, Alfred.)						
Sill, Charles, New York, N. Y. Electric railway	567,517	Sept. 8	1371	330	76	1547
Sill, Clarence, <i>et al.</i> , executors. (See Sill, Alfred.)						
Sill, Edwin M., <i>et al.</i> , executors. (See Sill, Alfred.)						
Sill, Richard V., assignor to Dornier & Dutton Manufacturing Company, Cleveland, Ohio. Electric heater	565,574	Aug. 11	1156	277	76	850
Silver, Sam D., Idaho Springs, Colo. Device for thawing frozen pipes	558,992	Apr. 28	2593	631	75	538
Silver, William S. (See Burton, George D., assignor.)						
Silverman, Haskel, New York, N. Y. Riding-skirt	560,602	May 19	2286	524	75	1171
Silverston, Anthony B., assignor of one-half to C. Thaw, St. Louis, Mo. Fastener	574,009	Dec. 29	3470	829	77	2001
Silvey, Faines N., Clarence, Ala. Millstone-pick	562,044	June 16	1748	423	75	1745
Silvey, William L., Dayton, Ohio. Utilizing material of worn-out secondary batteries	562,776	June 23	2990		75	1994
Simard, George A., <i>et al.</i> (See Adams, John A., assignor.)						
Simcoe, William W., Ensley, Mich. Feed-trough	555,290	Feb. 25	2655	621	74	1049
Simmanee, John F., assignor to Wright's Gas Meter Syndicate, Limited, London, England. Coin-freed apparatus for fluid-meters	572,913	Dec. 8	1429	345	77	1573
Simmonds, William, and C. Linegar, Yonkers, N. Y. Water-closet	568,881	Oct. 6	285	66	77	55
Simmons, Andrew L., Union City, Ind. Animal-poke	571,984	Nov. 24	2765	652	77	1216
Simmons, Charles, Atlanta, Ga. Umbrella	568,806	Oct. 6	158	37	77	32
Simmons, Edward. (See Moore, Ira W., assignor.)						
Simmons, Edwin J., Eugene, Oreg. Plumb-level	558,219	Apr. 14	1258	306	75	255
Simmons, Francis T., Chicago, Ill. Glove-fastener	561,623	June 9	1005	242	75	1585
Simmons, James, Long Branch, N. J. Umbrella-runner	558,530	Apr. 21	1798	437	75	374
Simmons, Ross C., East Tawas, Mich. Car-coupling	573,546	Dec. 22	2615	621	77	1827
Simmons, William F., assignor of two-thirds to W. Drees and J. W. Holmes, St. Louis, Mo. Mechanism for bending pipe	567,518	Sept. 8	1373	331	76	1547
Simon, Charles. (See Ris and Simon.)						
Simon, John B. (See Ensley, James A., assignor.)						
Simon, Morris, Waterbury, Conn. Table and bracket	553,267	Jan. 21	1415	344	74	294
Simon, Robert, Union Hill, N. J. Means for weaving	561,622	June 9	1003	240 241	75	1585
Simon, William, Jr., assignor of one-half to H. R. Hamley, St. Louis, Mo. Curtain-stretcher	570,210	Oct. 27	2626	623	77	536
Simonds, Alvin A., Dayton, Ohio. Voltmeter	572,360	Dec. 1	539	127	77	1381
Simonds, Florence M., <i>et al.</i> , executors. (See Simonds, George F.)						
Simonds, George F., deceased, Fitchburg; M. D. A., F. M., and W. A. Simonds, executors, assignors to Simonds Rolling Machine Company, Boston, Mass. Mechanism for grinding antifriction-balls	560,940	May 26	2944	676	75	1311
Simonds, George F., deceased, Fitchburg; M. D. A., F. M., and W. A. Simonds, executors, assignors to Simonds Rolling Machine Company, Boston, Mass. Mechanism for grinding antifriction-balls	560,941	May 26	2946	676	75	1312
Simonds, Mary D. A., <i>et al.</i> , executors. (See Simonds, George F.)						
Simonds Rolling Machine Company. (See Simonds, George F., assignor.)						
Simonds, Walter A., <i>et al.</i> , executors. (See Simonds, George F.)						
Simonds, William E., <i>et al.</i> (See Wells, Charles G., assignor.)						
Simonds, William E., Canton, Conn. Centrifugal separator	566,807	Sept. 1	117	29	76	1303

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Simonds, William E., Canton, Conn. Pencil-pointer.....	573,364	Dec. 15	2264	540	77	1744
Simonin, Isaac M., Philadelphia, Pa. Process of and apparatus for treating garbage	573,714	Dec. 22	2934	693	77	1888
Simons, Albert E., and E. Hixon, Chicago, Ill. Water-heater.....	567,868	Sept. 15	1970	473	76	1678
Simons, Benjamin, Charleston, S. C. Weighing apparatus.....	564,945	July 28	2985	711	76	597
Simons, Benjamin, Charleston, S. C. Automatic weighing-machine	564,946	July 28	2990	{ 711 712 }	76	597
Simons, Bro. & Co. (See Earl, Lewis F., assignor.)						
Simons, Brother & Co. (See Browning, Joseph, assignor.)						
Simons, James E., Pittsburg, Pa. Drop-door for cars	553,792	Jan. 28	2315	{ 549 550 }	74	477
Simons, James W., Port Chester, N. Y. Sewing-machine attachment	569,773	Oct. 20	1870	443	77	380
Simons, Joseph W., Port Chester, N. Y. Valve-stopper for bottles	573,490	Dec. 22	2524	598	77	1809
Simons, Walter E., Dublin, Canada. Telegraph-key.....	558,617	Apr. 21	1941	471	75	399
Simonson, James H. (See Daniels, Howard, assignor.)						
Simonson, William M., Hicksville, N. Y. Combined measuring-rule and stamp-holder	565,932	Aug. 18	1808	440	76	992
Simplex Mop Wringer Co. (See Michales, Moses A., assignor.)						
Simpson, Anson D., West Troy, and A. Bigelman, Troy, N. Y. Car-fender.....	570,611	Nov. 3	326	80, 81	77	699
Simpson, Hugh P. (See Little, Joseph A., assignor.)						
Simpson, Jack. (See Farlow, James, assignor.)						
Simpson, James, assignor of one-half to W. H. Mallory and E. E. Wade, Veedersburg, Ind. } Gate.....	564,113	July 14	1550	{ 364 365 }	76	305
Simpson, Rufus A., Ferndale, Cal. Butter molding and cutting machine	561,351	June 2	513	129	75	1468
Simpson, William Salford, assignor to Duplex Weaving Appliance Company, Limited, Manchester, England. Selvage-producing device for looms	573,715	Dec. 22	2936	694	77	1888
Simpson, William G., Delta, Colo. Tire-tightener.....	565,366	Aug. 4	756	180	76	757
Simpson, William X., Aurora, Ill. Merry-go-round.....	571,626	Nov. 17	2111	{ 506 507 }	77	1072
Simrak, Samuel S., et al. (See Rolfson, Rolf J., assignor.)						
Sims Company. (See Sapper, Frank C., assignor.)						
Sims, George E. (See Drury and Sims.)						
Sinclair, Charles S., Cincinnati, Ohio. Feed attachment for printing-presses.....	571,699	Nov. 17	2234	{ 537 538 }	77	1095
Sinclair, George, Leith, Scotland. Apparatus for superheating steam	559,623	May 5	468	108	75	772
Sinclair, George, Leith, Scotland. Apparatus for superheating steam	559,624	May 5	469	109	75	772
Sinclair, Henry T., Watrous, N. Mex. Ter. Hay-stacker	560,372	May 19	1888	430	75	1099
Sinclair, John B., Jr., Seymour, assignor of two-thirds to E. N. and A. H. Carrington, Derby, Conn. Driving mechanism for bicycles	572,729	Dec. 8	1139	275	77	1514
Sinclair, Moses H., Los Angeles, Cal. Lamp-stove.....	562,254	June 16	2093	508	75	1808
Sinclair, William E., assignor of one-half to W. Goltz, Milwaukee, Wis. Electric-distri- bution machine.....	566,874	Sept. 1	231	53, 54	76	1326
Sinclair, Willis D., et al. (See Demorest, Allen T., assignor.)						
Sinex, Andrew D., Rock Falls, assignor to J. H. and E. F. Lawrence, Sterling, Ill. Door- hanger.....	558,667	Apr. 21	2035	490	75	415
Singer, Charles R., Branford, Conn. Clock striking mechanism.....	568,213	Sept. 22	2600	626	76	1807
Singer, Frank K. (See Singer, George F. and F. K.)						
Singer, Frank O. (See Hoffman, Henry M., assignor.)						
Singer, George F. and F. K., Mingo Junction, Ohio. Electric signal-operating device for railway-trains.....	573,716	Dec. 22	2940	695	77	1889
Singer, Joseph, Los Angeles, Cal. Expansion-reamer.....	569,303	Oct. 13	1019	243	77	210
Singer Manufacturing Company. (See Allen, Edward B., assignor.)						
Singer Manufacturing Company. (See Bolton, James, assignor.)						
Singer Manufacturing Company. (See Bolton and Rontke, assignors.)						
Singer Manufacturing Company. (See Brandt, William, assignor.)						
Singer Manufacturing Company. (See Diehl, Philip, assignor.)						
Singer Manufacturing Company. (See Diehl and Hemleb, assignors.)						
Singer Manufacturing Company. (See Diehl and Kraemer, assignors.)						
Singer Manufacturing Company. (See Elkin, Charles, assignor.)						
Singer Manufacturing Company. (See Jagielski, Wladislaw F., assignor.)						
Singer Manufacturing Company. (See Macaulay, Thomas A., assignor.)						
Singer Manufacturing Company. (See Rontke, Albert, assignor.)						
Singer Manufacturing Company. (See Skinner, Clarence F., assignor.)						
Singer Manufacturing Company. (See Thorssin, Reinhold, assignor.)						
Singer, William F., assignor to Home Ice Maker Company, Nashville, Tenn. Apparatus for manufacturing ice.....	571,141	Nov. 10	1305	303	77	908
Singer, William M., Sunbury, Pa. Saw-handle	563,512	July 7	471	111	76	90
Singerly, William M. (See Speer, Edward D., assignor.)						
Singin, Louis N., Walls, Pa. Car-coupling	570,211	Oct. 27	2627	623	77	536
Singleton, John, Manchester, England. Running pump or shoe.....	566,422	Aug. 25	2669	652	76	1173
Sintz, Clark, assignor to Sintz Gas Engine Company, Grand Rapids, Mich. Carburetor....	556,069	Mar. 10	1042	248	74	1342
Sintz Gas Engine Company. (See Sintz, Clark, assignor.)						
Sintz Gas Engine Company. (See Winter, Harry A., assignor.)						
Sipe, Samuel P. (See Gottschalk and Sipe.)						
Sir Joseph Whitworth & Company. (See Gledhill, Manassah, assignor.)						
Siron, Ernest, assignor of one-half to T. C. Byrnes, New York, N. Y. Decoration for tex- tile fabrics.....	570,612	Nov. 3	328	81	77	699
Siekron, Edward, assignor to C. M. Owen, Minneapolis, Minn. Convertible cover and pot for plants.....	561,924	June 9	1367	328	75	1652
Sisum, William H. H., Belleville, N. J. Spool or bobbin winding machine.....	557,620	Apr. 7	160	41	75	31
Sisum, William H. H., Belleville, N. J. Hackling-machine.....	557,621	Apr. 7	161	42	75	32
Sixer, Charles W., assignor to Manufacturers' Automatic Sprinkler Company, Syracuse, N. Y. Automatic sprinkler	560,373	May 19	1889	431	75	1099
Sivertson, Lucas, Rothsay, Minn., assignor of one-half to J. G. and J. A. Walla, Horace, N. D. Rotary engine	562,159	June 16	1943	{ 471 472 }	75	1780
Siviter, Francis F., U. S. Army. Non-refillable bottle	572,456	Dec. 1	652	154	77	1402
Sjelstad, Lornis E., Sunburg, Minn. Animal-trap.....	558,317	Apr. 14	1425	350	75	287
Sjoholm, Adolph O., Negaunee, Mich. Combined miner's tool and candlestick	554,546	Feb. 11	1314	809	74	765
Sjolander, Eric O., Cedar Bayou, Tex. Stem for tobacco-pipes or cigar-holders	558,461	Sept. 29	3023	726	76	1902
Sjolander, Eric O., Cedar Bayou, assignor of one-half to E. Rheaum, Chambers county, Tex. Fire-escape	572,576	Dec. 8	857	206	77	1460
Sjolander, Jacob R., Ironwood, Mich. Sleigh-runner	569,011	Oct. 6	510	115	77	97
Skanks, Stephen C., assignor of five-sixths to W. W. Peay, Toronto, G. Fee, S. L. Brown, O. Legros, and J. J. Mackey, North Bay, Canada. Electric register for sleeping-car berths.....	553,320	Jan. 21	1515	363	74	311
Skeels, Charles W., New Cumberland, Ohio. Digging and stable fork.....	568,962	Oct. 6	422	94	77	81

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Skeen Electric Switch and Signal Company. (See Skeen, Robert, assignor.)						
Skeen, Elizabeth, <i>et al.</i> (See Skeen, Robert, assignor.)						
Skeen, Ida B., <i>et al.</i> (See Skeen, Robert, assignor.)						
Skeen, Robert, assignor to E. and I. B. Skeen, Madison, Ill. Trolley attachment for electric cars	558,429	Apr. 14	1631	393	75	326
Skeen, Robert, Madison, Ill., assignor, by mesne assignments, to Skeen Electric Switch and Signal Company, St. Louis, Mo. Trolley contact device	567,754	Sept. 15	1779	427	76	1640
Skeen, Robert, Madison, Ill., assignor to Skeen Electric Switch and Signal Company, St. Louis, Mo. Electric contact device	567,816	Sept. 15	1890	452	76	1662
Skiffington, William P., New York, N. Y., assignor to Paul Steam System Company, of Maine. Heating system	556,562	Mar. 17	1966	460	74	1529
Skillen, D. O. (See Bonshire, Jacob, assignor.)						
Skilton, James A., trustee. (See Averell, Ellicott D., assignor.)						
Skinner, Albert B., St. Louis, Mo. Paper-file	572,619	Dec. 8	935	227	77	1476
Skinner, Charles E. (See Scott and Skinner.)						
Skinner, Charles E., Pittsburg, Pa. Electrical advertising apparatus	562,429	June 23	2391	581	75	1880
Skinner, Charles E., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Electrical-discharge device	571,099	Nov. 10	1235	287	77	896
Skinner, Clarence F., Newark, N. J., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine	559,413	May 5	117	25, 26	75	704
Skinner, Courtland, Chicago, Ill. Electric railway	566,542	Aug. 25	2895	705, 706	76	1215
Skinner, George, London, England. Curling-iron	573,112	Dec. 15	1802	434	77	1661
Skinner, Perry R., assignor of one-half to A. S. Barnes, Oneonta, N. Y. Electrical dental plugger	557,159	Mar. 31	2979	711	74	1762
Skinner, Richard M., Flemingsburg, Ky. Garment-supporter	558,430	Apr. 14	1632	393	75	326
Skinner, Rodney C., Forest, Ill. Flue-stop	564,031	July 14	1392	323	76	273
Skinner, William C. (See Drury and Skinner.)						
Skoog, John F. (See Nyberg and Skoog.)						
Skov, Soren R., Cleveland, Ohio. Street-car truck	553,268	Jan. 21	1417	344	74	295
Skreberg, Hans A., Milan, Minn. Bag-holder	570,343	Oct. 27	2906	690	77	587
Slack, E. T., <i>et al.</i> (See Burnett, Carter J., assignor.)						
Slack, John H. (See Dolph, Slack, and Saunders.)						
Slack, Robert A., Comanche, Tex. Cloth bucket or vessel	552,973	Jan. 14	904	219	74	183
Slack, Wilbert L. (See Wagener, Christian J., assignor.)						
Slacke, Walter J. (See Johnson, Slacke, and Lacy.)						
Slade, Daniel, Ashfield, assignor to C. Tayler, Sydney, New South Wales. Fog signaling apparatus	571,203	Nov. 10	1398	327	77	927
Slade, Edward, Newton, Mass. Golf-club	564,655	July 28	2479	585	76	506
Slade, Edward, Newton, and J. S. Stone, assignors to American Bell Telephone Company, Boston, Mass. Telephone-circuit	553,179	Jan. 14	1261	305	74	251
Slade, James B., Riverhead, N. Y. Pail-handle	566,028	Aug. 18	1984	481	76	1028
Slade, William H. (See Briggs, John W. T., assignor.)						
Slade, William H., Columbus, Ohio. Holding mechanism for mining-machines	572,074	Nov. 24	2947	693	77	1249
Slaght, Edwin T., Gowanda, assignor of one-half to D. H. Huff, Fredonia, N. Y. Hose-washer	564,720	July 28	2582	612	76	525
Slaght, Lewis H., <i>et al.</i> (See Easton, James W., assignor.)						
Slaker, Frank J., assignor of one-half to F. A. Obenauer, Chicago, Ill. Barrel	570,883	Nov. 3	849	198	77	799
Slane, Frank P., and C. O. Sobinski, St. Louis, Mo. Printing-machine	563,422	July 7	309	70, 71	76	61
Slater, Augustus B., and N. A. Renstrom, Omaha, Nebr. Magnetic medical apparatus	561,448	June 2	692	171	75	1500
Slater, Frank H., <i>et al.</i> (See Norris, Frank M., assignor.)						
Slattery, Frank S., assignor of one-half to L. W. Young, Bradford, Pa. Clay-elevator	570,106	Oct. 27	2439	580	77	501
Slattery, John A., <i>et al.</i> (See Foote, James H., assignor.)						
Slattery, Thomas. (See Kennedy and Slattery.)						
Slatts, William C. (See Poe and Slatts.)						
Slaughter, George E. (See York and Slaughter.)						
Slavens, Luther C., Jr., Westport, Mo. Apparatus for playing duplicate whist	552,732	Jan. 7	416	106	74	80
Slawson, Albert G. (See Bengler, Uhl, and Slawson.)						
Slawson, George R., <i>et al.</i> (See Irish, Lemuel E., assignor.)						
Slaymaker-Barry Company. (See Troast, William F., assignor.)						
Slaymaker, J., <i>et al.</i> (See Williamson, Daniel, assignor.)						
Slaymaker, Jasper, assignor of two-thirds to Sunbury Water Company, Sunbury, Pa. Stop-cock for water-service systems	569,304	Oct. 13	1020	243	77	210
Slee, Richard B., Washington, D. C. Barber's appliance	570,107	Oct. 27	2240	580	77	501
Sleep, William J., assignor to himself and O. P. Bland, Birmingham, Ala. Fence-post	557,443	Mar. 31	3496	836	74	1855
Sleeper, George W., assignor of one-half to H. S. Robinson & Company, Detroit, Mich. Shoe	559,313	Apr. 28	3202	774	75	652
Sleeper, George W., assignor of two-thirds to H. S. Robinson and A. W. Comstock, Detroit, Mich. Apparatus for manufacturing insoles for shoes	563,082	June 30	3580	859	75	2128
Sleeper, George W., assignor of two-thirds to H. S. Robinson and A. W. Comstock, Detroit, Mich. Boot or shoe	563,083	June 30	3581	859	75	2128
Sleeper, W. H. (See Vanderbeck, R. J., assignor.)						
Sleffel, William J., Jr., Columbus, Ohio. Spring-pistol for shooting marbles	559,625	May 5	470	109	75	773
Sleight, Edward H., <i>et al.</i> (See Westaway, Walter J., assignor.)						
Slight, Emsley L., assignor of two-thirds to J. A. Mulkey and E. Wilkins, Ennis, Tex. Curtain-fixture	569,592	Oct. 13	1527	358	77	303
Slinack, Victor H., Philadelphia, Pa., assignor to Pennsylvania Globe Gas Light Company, of Pennsylvania. Incandescent burner	561,449	June 2	693	171	75	1501
Sloan, Alexander, assignor of one-half to J. D. Green, Pittston, and L. Pughe, Scranton, Pa. Grate for stoves, ranges, or furnaces	562,255	June 16	2095	508	75	1808
Sloan, Alfred J., Clyde, N. Y. Fence-wire stay	559,226	Apr. 28	3069	741	75	628
Sloan, Augustus K. (See Clouser, Samuel F., assignor.)						
Sloan, Leander E., Milwaukee, Wis., assignor of one-half to W. G. Collins, Chicago, Ill. Car-coupling	560,374	May 19	1891	431	75	1099
Sloane, Thomas C. (See MacKenzie, Sloane, and Hanna.)						
Slocumb & Co., J. T. (See Slocumb, John T., assignor.)						
Slocumb, John T., assignor to J. T. Slocumb & Co., Providence, R. I. Micrometer-gage	559,820	May 12	844	198	75	856
Slocum, Benjamin F. (See Grass, George F., assignor.)						
Slocum, Charles E. (See Harris, William T., assignor.)						
Slocum, Eason L., Pawtucket, R. I. Electric light cabinet	554,379	Feb. 11	1033	239	74	711
Slocum, Eason L., Pawtucket, R. I. Galvanic battery	555,056	Feb. 18	2236	534	74	952
Slocum, Eason L., Pawtucket, R. I. Electric-lighting system	555,057	Feb. 18	2237	534, 535	74	953
Slocum, Eason L., Pawtucket, R. I. Galvanic battery	555,058	Feb. 18	2239	535	74	953
Slocum, Frank L., Pittsburg, Pa. Coke-oven	568,074	Sept. 22	2356	569	76	1760

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Slocum, Frank L., Pittsburg, Pa. Coke-oven	568,075	Sept. 22	2359	570	76	1760
Slocum, Lewis T. M., Chicago, Ill. Broom	565,042	Aug. 4	140	33	76	644
Sloper, Thomas B., Devizes, England. Pneumatic tire	564,114	July 14	1553	365	76	306
Slotkin, Mayer, New York, N. Y. Soldering-clamp for plumbers	555,624	Mar. 3	236	56	74	1173
Slough, William S. (See Bolinger, William, assignor.)						
Sluder, Greenfield, G. Campbell, Jr., and G. D. Brown, St. Louis, Mo. Liquefied-gas brake.	568,214	Sept. 22	2603	{ 626 627 }	76	1807
Sluyter, Walter F. (See Case, Charles E., assignor.)						
Sly, Thomas. (See Sommer and Sly.)						
Slye, Clarence E. (See Bell, George A., assignor.)						
Slyder, William J., assignor to H. F. Douglas and A. G. Stouder, Troy, Ohio. Umbrella- fixture	567,009	Sept. 1	487	113	76	1374
Small, Abraham, <i>et al.</i> (See Woodard, Alvin N., assignor.)	552,646	Jan. 7	241	66, 67	74	47
Small, Frederick A., Blue Island, Ill. Rotary engine	558,220	Apr. 14	1259	{ 366 307 }	75	255
Small, Frederick E., Boston, Mass. Metallic packing	567,362	Sept. 8	1131	{ 271 272 }	76	1503
Small, Henry, San Antonio, Tex. Hand-car	560,942	May 26	2947	676	75	1312
Small, Henry C., Portland, Me. Non-refillable bottle	557,087	Mar. 24	2848	{ 681 682 }	74	1715
Small, John F., and J. S. Biggar, Chicago, Ill., assignors of one-half to H. Gugler, Mil- waukee, Wis. Labeling-machine						
Smallbones, Frederick. (See Elborne, William, assignor.)						
Smalley, Albert G., Chelsea, Mass. Fruit-jar	572,281	Dec. 1	340	82	77	1344
Smalley, Joseph. (See Tweedale and Smalley.)						
Smallwood, Edward, Elyria, Ohio. Apparatus for making cement flags or artificial stone.	555,345	Feb. 25	2746	643	74	1066
Smalstig, Frederick C., and G. Mayer, Allegheny, Pa. Can-opener	565,367	Aug. 4	757	180	76	757
Smalstig, Frederick C., and G. Mayer, Allegheny, Pa. Window-bead fastener	565,368	Aug. 4	758	181	76	757
Smalstig, William C., California, Mo. Harness-tree	558,431	Apr. 14	1633	393	75	326
Smart, Albert J., assignor to Wiley & Russell Manufacturing Company, Greenfield, Mass. Screw-cutting die	555,405	Feb. 25	2848	672	74	1085
Smart, Charles W., Carbondale, Ill. Steam-boiler or hot-water heater	552,974	Jan. 14	904	220	74	183
Smart, Walter J., Brooklyn, N. Y. Lamp	556,030	Mar. 10	955	227	74	1327
Smart, Walter J., South Orange, N. J. Bicycle-support	562,669	June 23	2799	690	75	1956
Smead & Wills Warming and Ventilating Company. (See Wills and Jordan, assignors.) ..						
Smedeman, Gustaf, assignor of one-half to S. E. Swanson, Washburn, Wis. Car-coupling.	559,871	May 12	958	214	75	876
Smethers, William H., Berwick, assignor of one-half to F. S. Vought, Silver Brook, Pa. Mold for casting metal	554,380	Feb. 11	1034	240	74	712
Smidt, William H., New York, N. Y., assignor, by mesne assignments, to Agatine Shoe- hook and Eyelet Company, Newark, N. J. Lacing-hook	568,498	Sept. 29	3089	744	76	1914
Smiley, Arthur G. (See Smiley, Hugh G., assignor.)						
Smiley, Frank M., Goshen, Ind. Band-saw-filing machine	565,575	Aug. 11	1156	278	76	850
Smiley, Hugh G., Chicago, Ill., assignor to A. G. Smiley, San Francisco, Cal. Adhesive composition	556,700	Mar. 17	2173	.....	74	1569
Smiley, John B., and W. B. Cheek, South Omaha, Nebr. Combination stock-car door and running-board	566,029	Aug. 18	1985	481	76	1028
Smillie Coupler and Manufacturing Company. (See Meeker, Gardner, assignor.)						
Smillie, George W., Newark, N. J. Car-coupling	560,823	May 26	2716	624	75	1269
Smillie, George W., Newark, N. J. Car-coupling	561,825	June 9	1368	329	75	1652
Smillie, Robert D., Glasgow, Scotland. Apparatus for making steam-pipes	566,629	Aug. 25	3010	735	76	1238
Smith, Aaron F., trustee. (See Kempshall, Eleazer, assignor.)						
Smith, Abel S., assignor of one-half to S. H. Smith, Hillsdale, Mich. Combined halter and blind	557,710	Apr. 7	324	77	75	62
Smith, Abram H., Vancouver, Canada, assignor to E. P. Smith, Tacoma, Wash. Stove- pipe shelf	572,381	Dec. 1	540	128	77	1381
Smith, Abram L., Brooklyn, N. Y., assignor, by mesne assignments, to Long Island Rub- ber and Cycle Company. Puncture-proof tire	556,379	Mar. 17	1636	383	74	1468
Smith, Abram L., Brooklyn, N. Y., assignor, by mesne assignments, to Long Island Rub- ber and Cycle Company. Puncture-proof tire	557,709	Apr. 7	323	77	75	61
Smith, Abram L., Brooklyn, N. Y., assignor to Long Island Rubber and Cycle Company, of New York. Puncture-proof pneumatic tire	563,691	July 7	766	181	76	143
Smith, Adolph J., New York, N. Y. Coal-receptacle and ash-sifter	566,630	Aug. 25	3012	736	76	1238
Smith, Albert H. (See Glover and Smith.)						
Smith, Albert U., Seymour, assignor of one-half to E. C. Smith, Westport, Conn. Auto- matic computing-scale. (Reissue.)	11,536	Apr. 28	3282	{ 792 793 }	75	667
Smith, Alfred H., <i>et al.</i> (See Price, John, assignor.)						
Smith, Alfred H., Wilmington, Del. Automatic guide for felts and wires	554,093	Feb. 4	531	119	74	602
Smith, Alfred J., New Britain, Conn. Raisin-seeder	572,075	Nov. 24	2948	694	77	1249
Smith, Allen C., Troy, N. Y. Rein-support	568,148	Sept. 22	2499	601	76	1788
Smith, Allen H., Snoqualmie, Wash. Trolling-hook	570,344	Oct. 27	2908	690	77	588
Smith, Alonzo D., New Woodstock, N. Y. Mechanical cash-book	555,745	Mar. 3	442	105	74	1209
Smith, Alvey M., Jr., Cockeysville, Md. Guard for freight-cars	560,288	May 19	1650	375	75	1058
Smith, Anderson L., Ia. Ga. Combined latch and lock	566,941	Sept. 1	355	83	76	1350
Smith, Anderson L., Ia. Ga. Drawer attachment	567,693	Sept. 15	1672	402	76	1620
Smith, Andrew, Travers City, Mich. Car-lock	553,141	Jan. 14	1186	288	74	238
Smith, Angus W., Union Church, Miss. Hame	561,731	June 9	1202	285	75	1623
Smith, Anselmo B., Denver, Colo. Plumb-bob-adjusting device	564,316	July 21	1900	449	76	381
Smith, Archibald F., Philadelphia, Pa. Flag and lantern holder	561,826	June 9	1370	329	75	1652
Smith, Arden A., Brooklyn, N. Y. Condensed milk can	560,943	May 26	2948	676	75	1312
Smith, Arthur, Sutton Mill, and J. Barker, Crosshills, England. Holder for tailors' chalk.	558,318	Apr. 14	1426	350	75	288
Smith, Arthur J., Birmingham, England. Handle-bar for cycles	557,935	Mar. 24	2773	658	74	1698
Smith, Arthur P., Springfield, Mass. Signaling apparatus	565,933	Aug. 18	1809	440	76	992
Smith, Augustus, New York, N. Y., assignor to Link-Belt Engineering Company, Philadel- phia, Pa. Barrel-elevator	561,827	June 9	1371	329	75	1653
Smith, Barclay S. (See Cole, Anson D., assignor.)						
Smith, Benjamin F., Valparaiso, Nebr. Car-coupling	561,140	June 2	108	30	75	1388
Smith, Benjamin F., assignor of one-half to C. G. Smith, Somerville, Mass. Driven-well strainer	560,441	May 19	2021	462	75	1123
Smith, Benjamin F., assignor of one-half to C. G. Smith, Somerville, Mass. Driven-well system	572,034	Nov. 24	2844	669	77	1230
Smith, Benjamin J., Pottsville, Pa. Shoe-polishing cabinet	564,032	July 14	1393	324	76	273
Smith, Carlos A., assignor to Ohio Oil Improvement Company, Cleveland, Ohio. Refining oil.	558,747	Apr. 21	2164	522	75	410
Smith, Carlos H., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Watch- movement box	557,444	Mar. 31	3498	836	74	1856

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Smith, Charles. (See Short, Robert L., assignor.)						
Smith, Charles A., San Francisco, Cal. Air-ship.....	565,805	Aug. 11	1564	381	76	926
Smith, Charles A., Minerva, Ohio. Stovepipe.....	572,076	Nov. 24	2949	694	77	1249
Smith, Charles B., <i>et al.</i> (See Smith, James G., assignor.)						
Smith, Charles B., assignor of two-thirds to R. G. Vassar and J. G. Smith, New York, N. Y. Telephone and calling system.....	559,086	Apr. 28	2749	669	75	568
Smith, Charles B., assignor of two-thirds to R. G. Vassar and J. G. Smith, New York, N. Y. Telephone and calling system.....	559,087	Apr. 28	2755	669	75	569
Smith, Charles E. (See Haven and Smith.)						
Smith, Charles E., Syracuse, N. Y. Shutter-closer.....	556,110	Mar. 10	1108	{ 263 264 406 407 408 409 410 904	} 74	1354
Smith, Charles F., assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Machine for automatically making wire chain. (Reissue).....	11,532	Apr. 14	1690	{ 905 906 906 907	} 75	336
Smith, Charles F., assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Machine for automatically manufacturing chain from sheet metal.....	574,176	Dec. 29	3790	{ 905 906 906 907	} 77	2059
Smith, Charles G. (See Smith, Benjamin F., assignor.)						
Smith, Charles H., assignor to O. B. North & Co., New Haven, Conn. Snap-hook.....	566,543	Aug. 25	2897	706	76	1215
Smith, Charles H., Birmingham, Ala., assignor to Smith Safety Coupler Company, Memphis, Tenn. Car-coupling.....	560,439	May 19	2017	462	75	1122
Smith, Charles R., Neenah, Wis. Hoop.....	555,712	Mar. 3	385	89	74	1198
Smith, Charles S., Brockton, Mass. Feather-beater.....	568,215	Sept. 22	2608	627	76	1809
Smith, Charles T., assignor of one-half to H. O. Nourse, Chicago, Ill. Method of and apparatus for kindling fires in locomotives.....	556,167	Mar. 10	1219	285	74	1375
Smith, Charles W., Brooklyn, N. Y., and E. B. Noyes, Portsmouth, Va. Apparatus for automatically plotting topographical sections.....	565,695	Aug. 11	1369	{ 333 334	} 76	891
Smith, Chester W. M., San Francisco, Cal. Car construction.....	563,423	July 7	320	72	76	63
Smith, Chris N., assignor of one-half to F. O. Johnson, Elgin, Ill. Hoop-shaving machine.....	553,570	Jan. 28	1948	{ 459 460	} 74	408
Smith, Coe D., Smithtown Branch, N. Y. Stable-floor.....	558,574	Apr. 21	1870	454	75	386
Smith, Comly S. (See Hessemer and Smith.)						
Smith, Curtis A., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Re-volving cutter.....	555,468	Feb. 25	2976	{ 708 709	} 74	1109
Smith, Cyrus M., Lake City, Iowa. Apparatus for boring and tubing wells.....	570,513	Nov. 3	136	34	77	663
Smith, D. G., <i>et al.</i> (See Glass, George A., assignor.)						
Smith, Daniel R. (See Harper and Smith.)						
Smith, Datus C., Yonkers, N. Y. Fence.....	567,258	Sept. 8	915	219	76	1465
Smith, Desbrow M. (See Robinson and Smith.)						
Smith, De Wane B., Deerfield, N. Y., assignor, by mesne assignments, to National Harrow Company, Jersey City, N. J. Harrow.....	567,321	Sept. 8	1055	{ 251 252	} 76	1489
Smith, Duane P. (See Elwood, Jefferson U., assignor.)						
Smith, E. W., <i>et al.</i> (See Rodgers and Crowson, assignors.)						
Smith, Earl W., Houston, assignor of one-half to H. R. Beard, Dallas, Tex. Car-shade adjuster.....	564,903	July 28	2891	693	76	580
Smith, Earle H., New York, N. Y. Sewing-machine.....	553,139	Jan. 14	1181	287	74	237
Smith, Edmond C. (See Smith, Albert U., assignor.) (Reissue.)						
Smith, Edward. (See Dunn, John, assignor.)						
Smith, Edward A., New York, N. Y., assignor of two-thirds to P. McManus and W. F. Smith, Philadelphia, Pa. Drag-saw machine.....	553,545	Jan. 28	1903	{ 450 451	} 74	400
Smith, Edward C. (See Jarvis, Oscar F., assignor.)						
Smith, Edward C., New York, N. Y., assignor to J. B. Kinney, Red Bank, N. J. Feeding pulverized fuel.....	563,987	July 14	1319	308	76	260
Smith, Edward C., New York, N. Y., assignor to J. B. Kinney, Red Bank, N. J. Machine for pulverizing fuel.....	564,033	July 14	1394	325	76	274
Smith, Edward G., New York, N. Y. Machine for making scraped brass.....	574,326	Dec. 29	3909	929	77	2079
Smith, Edwin B., and H. Benard, Fremont, Ohio. Oil-well jack and pumping apparatus.....	569,068	Oct. 6	604	138	77	116
Smith, Edwin F. and F. A., Union City, Conn. Self-closing buckle.....	557,903	Apr. 7	664	159	75	125
Smith, Edwin F. and F. A., Union City, Conn. Self-locking garment-hook.....	563,625	July 7	655	152	76	123
Smith & Egge Manufacturing Company. (See Smith, Charles F., assignor.)						
Smith & Egge Manufacturing Company. (See Smith, Charles F., assignor.) (Reissue.)						
Smith, Elbert H., Canisteo, N. Y. Combined nut and pipe wrench.....	560,438	May 19	2016	461	75	1122
Smith, Elmer E., <i>et al.</i> (See Badgley, Edwin L., assignor.)						
Smith, Emmett L., Birmingham, Ala. Pneumatic seed-cotton conveyor and distributor.....	568,882	Oct. 6	287	66	77	55
Smith, Eugenia P. (See Smith, Abram H., assignor.)						
Smith Exhaust Pipe Company. (See Smith, John Y., assignor.)						
Smith, Ezra B., Cincinnati, Ohio. Fifth-wheel.....	560,442	May 19	2021	462	75	1123
Smith, Ezra B., Cincinnati, assignor, by mesne assignments, to Eberhard Manufacturing Company, Cleveland, Ohio. Fifth-wheel for vehicles.....	553,693	Jan. 28	2154	510	74	445
Smith, Ezra W., <i>et al.</i> (See Stansbury, George F., assignor.)						
Smith, Francis A., assignor, by mesne assignments, to St. Louis Art Metal Company, St. Louis, Mo. Suspension card-index.....	570,686	Nov. 3	505	118	77	732
Smith, Frank A. (See Smith, Edwin F. and F. A.)						
Smith, Frank S., Chicago, Ill. Wrench.....	562,497	June 23	2498	605	75	1900
Smith, Frank S., Pittsburg, Pa. Building up carbon filaments.....	563,329	July 7	172	-----	76	35
Smith, Frank S., Pittsburg, and J. A. Vandegrift, Allegheny, Pa. Manufacturing incandescent lamps.....	565,576	Aug. 11	1161	278	76	851
Smith, Franklin D., assignor of one-half to J. R. Dudley, Fremont, Mich. Sleigh-knee.....	562,256	June 16	2097	508	75	1809
Smith, Fred S., assignor to himself and F. C. Rockwell, Hartford, Conn. Trolley attachment for electric cars.....	556,941	Mar. 24	2596	611	74	1664
Smith, Frederick J., Muncie, Ind. Hobby-horse.....	555,536	Mar. 3	89	20	74	1146
Smith, Frederick M., assignor of one-half to T. E. Webster, Bay City, Mich. Bridge-gate.....	572,318	Dec. 1	415	98	77	1358
Smith, Frederick W. (See Halpin, Cornelius, assignor.)						
Smith, George. (See Congdon, Henry W., assignor.)						
Smith, George. (See Reussner, Albert F. L., assignor.)						
Smith, George A., Derry, Pa. Mouse-trap.....	567,201	Sept. 8	817	194	76	1448
Smith, George E., Sherbrooke, Canada. Rail-bending machine.....	558,705	Apr. 21	2097	506	75	428
Smith, George E., Sherbrooke, Canada. Rail-bending machine.....	558,706	Apr. 21	2098	507	75	428
Smith, George E., Shiloh, La. Car-coupling.....	565,934	Aug. 18	1813	441	76	993
Smith, George E., and F. P. Garrison, Westwood, Ohio. Copy-holder.....	556,650	Mar. 17	2100	491	74	1554

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Smith, George H. (See Bates, Frederick W., assignor.)						
Smith, George H. (See Gates, William and L. W., assignors.)						
Smith, George I., assignor of two-thirds to B. R. and R. Butler, Huntley, N. C. Turpentine-box	555,268	Feb. 25	2608	611	74	1040
Smith, George S., Grand Rapids, Mich. Carpenter's plane	556,835	Mar. 24	2422	569	74	1632
Smith, George S., G. Haydon, and F. H. Urry, assignors of one-half to F. M. Martin, London, England. Coin-shooting machine	553,078	Jan. 14	1077	263	74	216
Smith, George W., Maysville, Ky. Hydrant	560,114	May 12	1420	319	75	965
Smith, George W., North Monroeville, Ohio. Railway-tie extractor and replacer	561,352	June 2	515	129	75	1469
Smith, George W., Union City, Ind. Force and spray pump	568,462	Sept. 29	3024	726	76	1902
Smith, Grant. (See Bowghner and Smith.)						
Smith, Green, Montgomery, W. Va. Nut-lock	553,435	Jan. 21	1706	407	74	347
Smith, Gustaf. (See Krantz, Alfred J., assignor.)						
Smith, Harry K., et al. (See Crosby, Robert H., assignor.)						
Smith, Harry R., Alpena, Mich. Machine for stretching and straightening band-saws	565,640	Aug. 11	1265	305	76	870
Smith, Henry H., et al. (See Dittbenner, Hermann G., assignor.)						
Smith, Henry L., Seekonk, Mass., assignor to American Ship Windlass Company, Providence, R. I. Capstan	572,457	Dec. 1	653	154 155	77	1403
Smith, Henry T., Pawtucket, R. I. Watchcase-pendant	568,375	Sept. 29	2879	692	76	1875
Smith, Herbert, Bayonne, N. J., and T. Gordon, New York, N. Y. Regenerative lamp	573,113	Dec. 15	1803	435	77	1661
Smith, Herbert W. (See Tobey and Smith.)						
Smith-Hill Elevator Company. (See Hill, Thomas, assignor.)						
Smith, Hugh, Newark, N. J. Polishing or finishing machine	569,843	Oct. 20	1979	470 471	77	401
Smith, Humphrey R., assignor to Winslow Brothers Elevator Company, Chicago, Ill. Electric elevator	555,979	Mar. 10	856	204	74	1310
Smith, Humphrey R., assignor to Winslow Brothers Elevator Company, Chicago, Ill. Electric elevator	561,828	June 9	1372	329 330	75	1653
Smith, Ida M. (See Smith, Seymour G., assignor.)						
Smith, Irving, New York, N. Y., assignor to Crescent Watch Case Company, Newark, N. J. Watch-bow fastener	557,034	Mar. 24	2772	658	74	1698
Smith, Jacob A., Weisburg, Ind. Corn-cultivator	552,930	Jan. 14	832	202	74	170
Smith, Jacob A., Holland, Mich. Adjustable window-screen	573,365	Dec. 15	2265	540	77	1744
Smith, James, et al. (See Wolcott, Joshua J., assignor.)						
Smith, James, Benton, N. Y. Vessel and propeller therefor	566,423	Aug. 25	2670	652 653	76	1173
Smith, James A., Holbrook, Mass. Cord-coupling	556,649	Mar. 17	2100	491	74	1554
Smith, James G., et al. (See Smith, Charles B., assignor.)						
Smith, James G., New York, N. Y. Telephone and calling system	559,088	Apr. 28	2760	669	75	571
Smith, James G., assignor of one-half to R. G. Vassar, New York, N. Y. Telephone system	563,084	June 30	3583	859	75	2128
Smith, James G., assignor of two-thirds to R. G. Vassar and C. B. Smith, New York, N. Y. Telephone-call	553,364	Jan. 21	1591	380	74	325
Smith, James H. (See Challands, Pare, and Smith.)						
Smith, James O., Newark, N. J. Expandable chuck	569,245	Oct. 13	915	219	77	191
Smith, James R. (See Smith, John H., J. R., and W. E.)						
Smith, James W., Mogadore, Ohio. Stove-lid lifter	554,150	Feb. 4	644	146	74	623
Smith, Jehial R., Kirwin, Kans. Weather-strip	567,363	Sept. 8	1132	272	76	1503
Smith, Jesse M. (See Hubel and Smith.)						
Smith, John, Ellsworth, Wis. Supplemental terret attachment for harness	557,904	Apr. 7	665	159	75	125
Smith, John, assignor of one-half to H. Brandle, Philadelphia, Pa. Confectionery-machine	563,330	July 7	174	39	76	35
Smith, John, assignor of one-half to H. Brandle, Philadelphia, Pa. Vacuum-pan	572,382	Dec. 1	542	128	77	1381
Smith, John A. (See Ferg, John A., assignor.)						
Smith, John A., assignor of two-thirds to J. Hart and A. Wilkinson, Johnstown, Pa. Balanced piston-valve	560,550	May 19	2193	500 501	75	1153
Smith, John A. B., Philadelphia, Pa. Dumping-wagon	558,748	Apr. 21	2166	522	75	441
Smith, John D., Bonham, Tex. Coffee-roaster	554,094	Feb. 4	534	119	74	602
Smith, John D., Bonham, Tex. Tree-protector	557,905	Apr. 7	666	160	75	126
Smith, John D., New York, N. Y. Condenser	572,834	Dec. 8	1315	315	77	1548
Smith, John D., assignor of one-half to G. W. Ragsdale, Bonham, Tex. Revolving cabinet	568,631	Sept. 29	3355	804	76	1962
Smith, John F., Burbank, Ohio. Car-coupling	554,547	Feb. 11	1316	309	74	765
Smith, John G., Chicago, Ill. Double-decker spring bed-bottom	561,139	June 2	106	93	75	1388
Smith, John G., assignor to Union Wire Mattress Company, Chicago, Ill. Spring bed-bottom	572,577	Dec. 8	859	206 207	77	1461
Smith, John H., et al. (See Powers, Edward, assignor.)						
Smith, John H., and E. P. Wagon, Sheldon, N. D. Furrow-opener for seed-drills	566,875	Sept. 1	232	54	76	1326
Smith, John H., J. R., and W. E., Snohomish, Wash. Wedge for filling and tightening wood-joints	567,048	Sept. 1	558	130	76	1387
Smith, John O., Denver, Colo. Eraser	561,161	June 2	195	48	75	1404
Smith, John P., Kahoka, assignor of one-half to J. Douglass, Millport, Mo. Stock-feeder	570,569	Nov. 3	257	64	77	686
Smith, John S., La Fontaine, assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic straw-stacker	568,883	Oct. 6	289	66, 67	77	55
Smith, John T., Rockfall, Conn. Cylinder-stop	556,563	Mar. 17	1970	460	74	1530
Smith, John W., Worcester, Mass. Governor-valve	560,655	May 26	2435	557	75	1213
Smith, John Y., assignor to Smith Exhaust Pipe Company, Doylestown, Pa. Exhaust apparatus	573,547	Dec. 22	2616	621	77	1827
Smith, Joseph H., and W. A. Landis, St. Cloud, Minn. Egg-tester	573,305	Dec. 15	2170	518	77	1726
Smith, Joseph L., Jacksonville, Ill. Hog catching and holding implement	567,049	Sept. 1	559	130	76	1388
Smith, Joseph R., Waterbury, Conn., assignor to Consolidated Fastener Company, Portland, Me. Die	562,859	June 30	3158	765	75	2042
Smith, Joseph T., New York, N. Y. Blacking-box	558,853	Apr. 21	2340	569	75	473
Smith, Josephine, Jacksonville, Ill. Curtain-stretcher	568,991	Oct. 6	484	109	77	92
Smith, Jud. Savre, Pa. Fire-box for steam-boilers	572,077	Nov. 24	2950	694	77	1249
Smith, Julian E., Chicago, Ill. Combined feed-water heater and purifier	553,694	Jan. 28	2157	510	74	446
Smith, Leander H. (See Duncan and Smith.)						
Smith, Leonard O., Philadelphia, Pa. Navigable vessel	558,575	Apr. 21	1871	454	75	386
Smith, Leonard O., Philadelphia, Pa. Skein-holder	563,513	July 7	472	111	76	90
Smith, Leonard O., Philadelphia, Pa. Thread-package	566,424	Aug. 25	2671	653	76	1174
Smith, Lester C., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Sash-fastener	567,620	Sept. 15	1550	374	76	1596
Smith, Lester C., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Sash-fastener	567,621	Sept. 15	1551	374	76	1596
Smith, Lewis, Brooklyn, N. Y. Bicycle-rest	571,700	Nov. 17	2236	538	77	1096
Smith, Lewis A. (See Gaynor and Smith.)						
Smith, Lewis H., Elmira, N. Y. Blind-stop	558,319	Apr. 14	1427	350	75	288

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Smith, Louis E., Denver, Colo. Spool-holder for sewing-machines	571,024	Nov. 10	1086	253	77	869
Smith, Luther C., Carbondale, Pa. Block-signal	569,246	Oct. 13	916	219 220	77	191
Smith, Lyman D., Waterloo, Nebr. Combination-tool	562,746	June 23	2940	712	75	1983
Smith, Martin H., New York, N. Y. Sweetening oils	562,670	June 23	2800	712	75	1957
Smith, Mathew A., Clarendon Hills, assignor to Warwick Cycle Manufacturing Company, Springfield, Mass. Manufacture of rims for bicycle-wheels	557,520	Mar. 31	3640	872	74	1882
Smith, Melvin H., assignor of two-thirds to R. W. Montross, Galien, Mich. Cash-register	566,481	Aug. 25	2802	682	76	1197
Smith, Milton. (See Eddy, John S., assignor.)						
Smith, Nathaniel E., Jersey City, N. J. Plumber's tack	566,544	Aug. 25	2898	706	76	1215
Smith, Nathaniel E., Jersey City, N. J. Pipe-patch	573,491	Dec. 22	2525	598	77	1809
Smith, Nicholls J., Waycross, Ga. Cheese-cutter	553,768	Jan. 28	2284	541	74	471
Smith, Norbourn H., Bristol, Tenn. Stack blower attachment	569,804	Oct. 20	1919	455	77	389
Smith, Norton, Saginaw, Mich. Combined grain-cleaner and stock-feeder	555,909	Mar. 3	715	172	74	1263
Smith, Oberlin, Bridgeton, N. J. Coining-press	574,227	Dec. 29	3911	929 930 931	77	2080
Smith, Oberlin, Bridgeton, N. J., assignor, by mesne assignments, to Northrop Loom Company, Hopedale, Mass. Warp stop-motion for looms	557,906	Apr. 7	667	160	75	126
Smith, Oberlin, Bridgeton, N. J., assignor of one-half to G. Draper & Sons, Hopedale, Mass. Loom	569,805	Oct. 20	1920	456	77	390
Smith, Oleny, Detroit, Mich. Apparatus for detaching electric-lamp bulbs	558,573	Apr. 21	1869	453	75	386
Smith, Orbin F., Osceola, assignor to Western Manufacturing Company, Albia, Iowa. Force-pump	555,188	Feb. 25	2462	583	74	1014
Smith, Orison M., assignor of one-half to H. Bridgeman and N. F. Russell, Duluth, Minn. Automatic gripping device for inclined railways	553,942	Feb. 4	257	56	74	552
Smith, Oscar L., Edgewater, N. Y. Air compressor and blower	572,383	Dec. 1	543	128	77	1381
Smith, Otis H., Cambridge, Mass. Kiln for drying kindling-wood	571,407	Nov. 17	1733	413 414	77	1004
Smith, Paul H., Columbus, Ohio. Dresser-trunk	563,624	July 7	652	152	76	123
Smith, Peter, Cincinnati, Ohio. Device for protecting beds from insects	559,414	May 5	125	27	75	705
Smith, Peter G., Roslyn, N. Y. Game-board	552,786	Jan. 7	529	130	74	99
Smith, Richard J., Lovelaceville, Ky. Spittoon	567,050	Sept. 1	560	131	76	1388
Smith, Robert, <i>et al.</i> (See Roy, John J., assignor.)						
Smith, Robert P., assignor to E. T. Burrowes, Portland, Me. Guide for spring-actuated shades	564,721	July 28	2583	612	76	525
Smith, Robert T., Baltimore, Md. Can-making tool	559,955	May 12	1110	248	75	903
Smith, Roswell T., Nashua, N. H. Embroidering-machine	554,428	Feb. 11	1122	262 263	74	729
Smith, Roswell T., Nashua, N. H. Keyboard-player	555,744	Mar. 3	439	104 105	74	1208
Smith, Rudolph C. (See Otis and Smith.)						
Smith, Rudolph C., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. End-bearing for screw-shafts	553,140	Jan. 14	1184	287 288	74	237
Smith, Rudolph C., Yonkers, N. Y., assignor, by mesne assignments, to National Company, Chicago, Ill. Controlling mechanism for electric motors	562,745	June 23	2933	711 712	75	1982
Smith, Rudolph C., Yonkers, N. Y., assignor, by mesne assignments, to National Company, Chicago, Ill. Stopping or starting device for elevators	565,696	Aug. 11	1372	334	76	892
Smith, Rudolph C., Yonkers, N. Y., assignor, by mesne assignments, to National Company, Chicago, Ill. Compound engine	565,697	Aug. 11	1373	335	76	892
Smith Safety Coupler Company. (See Smith, Charles H., assignor.)						
Smith, Samuel, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, of New Jersey. Linotype-machine	554,842	Feb. 18	1838	432	74	882
Smith, Samuel A., McKinney, Tex. Moldboard	568,216	Sept. 22	2610	627 628	76	1809
Smith, Samuel C., Philadelphia, Pa. Photographic-plate lifter	572,663	Dec. 8	1010	244	77	1490
Smith, Samuel G. (See McNaughton and Smith.)						
Smith, Samuel J., <i>et al.</i> (See Powers, Edward, assignor.)						
Smith, Samuel J., Passaic, N. J. Bottle	562,671	June 23	2800	680	75	1957
Smith, Samuel N., Minneapolis, Minn. Boat-propelling attachment	570,613	Nov. 3	329	81, 82	77	699
Smith, Samuel N., Minneapolis, Minn. Primary battery	571,460	Nov. 17	1827	435	77	1022
Smith, Sarah M., St. Augustine, Fla. Skirt-supporter	569,356	Oct. 13	1109	264	77	228
Smith, Scepter, and H. M. Henry, New Hartford, Ill. Fence-post	567,010	Sept. 1	489	113	76	1374
Smith, Seth H. (See Smith, Abel S., assignor.)						
Smith, Seymour G., assignor to I. M. Smith, Plainfield, N. J. Expansion-joint for brickwork	552,787	Jan. 7	530	130	74	99
Smith, Sidney, Cambridge, Mass. Feed-water heater	559,757	May 5	705	167	75	815
Smith & Thayer Company. (See Frost, Newland E., assignor.)						
Smith, Theodore, Georgetown, Ill. Gate latch and operating device	561,732	June 9	1203	285 286	75	1623
Smith, Theodore, Georgetown, Ill., assignor to McCormick Harvesting Machine Company. Butt-adjuster for grain-binders	561,182	June 2	196	48, 49	75	1404
Smith, Theodore, Georgetown, assignor to McCormick Harvesting Machine Company, Chicago, Ill. Adjusting device for butting-boards	568,149	Sept. 22	2500	601	76	1788
Smith, Theodore E., Shamokin, Pa. Means for operating gates of coal-jigs, &c	574,228	Dec. 29	3915	932	77	2081
Smith, Thomas C. (See Hadley, Joshua A., assignor.)						
Smith, Thomas N., assignor of one-half to W. A. Symington, Independence, Mo. Hose-reel	571,701	Nov. 17	2238	538	77	1096
Smith, W. Dean. (See Enholm, Oscar A., assignor.)						
Smith, Walter J., <i>et al.</i> (See Wheeler, Albert H., assignor.)						
Smith, Walton D., assignor of one-half to F. L. Adams, Prophetstown, Ill. Marking-tag for rolled goods	566,703	Aug. 25	3135	767	76	1259
Smith, Warren B. (See Tymeson, Eugene, assignor.)						
Smith, William, Trenton, N. J. Pipe connection	569,247	Oct. 13	921	220	77	191
Smith, William, Ashton-under-Lyne, England. Hinge	571,408	Nov. 17	1737	415	77	1005
Smith, William, London, England. Guide-bearing for railway connection-rods	572,384	Dec. 1	545	128 129	77	1385
Smith, William, and T. Scott, Tarkio, Mo., assignors of one-half to K. D. Dunlop, Sibley, Iowa. Rotary steam-engine	565,641	Aug. 11	1266	306	76	870
Smith, William E. (See Halfpenny, James M., assignor.)						
Smith, William E. (See Smith, John H., J. R., and W. E.)						
Smith, William E., Baltimore, Md., assignor to J. J. Purman, Washington, D. C. Method of and apparatus for manufacturing wire-glass and sheet-glass	560,759	May 26	2602	599 600	75	1246
Smith, William F., <i>et al.</i> (See Smith, Edward A., assignor.)						
Smith, William F., assignor of one-half to W. M. Brooks, Marquez, Tex. Vehicle-wheel scraper	560,440	May 19	2019	462	75	1122

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Smith, William H., Oakville, Conn. Saw-set.....	572,835	Dec. 8	1316	316	77	1548
Smith, William J., New Haven, Conn. Time-fuse for shells.....	570,065	Oct. 27	2366	562	77	486
Smith, William J., New Haven, Conn., assignor to Geometric Drill Company, of Delaware. Die-head for screw-cutting.....	572,934	Dec. 8	1483	356	77	1582
Smith, William P., Albany, N. Y. Producing and coating patterns.....	567,694	Sept. 15	1673	403	76	1620
Smith, William R., Covington, Ky. Railway-track.....	563,085	June 30	3557	860	75	2128
Smith, William T., assignor to Wm. Knabe & Co. Manufacturing Company, Baltimore, Md. Sectional piano.....	560,656	May 26	2436	557	75	1213
Smith, William T., assignor to Wm. Knabe & Co. Manufacturing Company, Baltimore, Md. Piano-case.....	562,496	June 23	2496	605	75	1900
Smith, William T., assignor of one-third to B. Walmsley, Bolton, England. Boring and cutting tool.....	569,433	Oct. 13	1228	288	77	249
Smith, William W., Pittsburg, Pa. Valve.....	567,011	Sept. 1	489	113	76	1374
Smith, Willis A., New York, N. Y. Antirefilling bottle.....	571,204	Nov. 10	1399	327	77	927
Smith, Wilson W., Fritchton, Ind., assignor of one-third to W. Phelps and L. Fulcher, Louisville, Ky. Corn-harvester.....	555,406	Feb. 25	2849	672	74	1085
Smithson, Alberto, Lowell, Mass. Cash register and indicator.....	555,407	Feb. 25	2851	672	74	1086
Smock, Calvin E. (See Parker and Smock.).....						
Smoot, James E., Concord, N. C. Combined medicine-case and saddle-bags.....	554,843	Feb. 18	1838	432 } 433 } 74	882	
Smoot, James E., Concord, N. C. Penholder.....	565,806	Aug. 11	1566	381	76	927
Smurthwaite, Hubert F., Coatesville, Pa. Expansion steam-trap.....	570,777	Nov. 3	655	150	77	758
Smyser, Henry E., Philadelphia, Pa., assignor to Arbuckle Brothers, New York, N. Y. Gluing mechanism.....	560,009	May 12	1207	269	75	925
Smyser, Henry E., Philadelphia, Pa., assignor to Arbuckle Brothers, New York, N. Y. Mechanism for applying adhesives to paper.....	561,141	June 2	110	30 } 613 } 614 } 615 } 616 } 617 } 618 } 619 }	75	1389
Smyser, Henry E., Philadelphia, Pa., assignor to Arbuckle Brothers, New York, N. Y. Bag-making and packaging machine.....	564,722	July 28	2584	616 }	76	525
Smyser, Henry E., Philadelphia, Pa., assignor to Arbuckle Brothers, New York, N. Y. Mechanism for feeding granulated substances.....	570,108	Oct. 27	2441	580 } 581 }	77	501
Smyser, Henry E., Philadelphia, Pa., assignor to Arbuckle Brothers, New York, N. Y. Feed mechanism for weighing-machines.....	570,109	Oct. 27	2443	582 } 583 } 584 }	77	502
Smyser, Louis B., Chicago, Ill., assignor to Gould Coupler Company, New York, N. Y. Ves-tibule railway-car.....	556,031	Mar. 10	956	229 } 230 }	74	1327
Smyth, David M., Pasadena, Cal. Signature-gatherer.....	565,145	Aug. 4	364	84, 85 }	76	685
Smyth, David M., Pasadena, Cal. Signature-gatherer.....	565,146	Aug. 4	366	85 }	76	685
Smyth, Thomas, Fredericktown, Mo. Weather-board saw.....	571,889	Nov. 24	2593	615 } 616 }	77	1182
Smyth, William H., Berkeley, Cal. Steam-beer fountain.....	566,942	Sept. 1	356	83 }	76	1350
Smyth, William H., Berkeley, Cal. Can-soldering machine.....	573,423	Dec. 15	2376	567 } 568 }	77	1764
Smythe, Homer S., Woonsocket, S. D. Buggy-wrench.....	567,695	Sept. 15	1675	403 }	76	1621
Snader, Edward L., New York, N. Y. Shipping-case.....	558,576	Apr. 21	1872	454 }	75	387
Snead, Charles G. (See Herman and Snead.).....						
Snead & Co. Iron Works. (See Trowbridge, Charles W., assignor.).....						
Snedeker, David, Jersey City, N. J. Interchangeable toy and box.....	564,227	July 21	1746	408 }	76	354
Snell, Adolphus G., New Haven, Conn., assignor to H. G. Thompson & Son. Saw-frame.....	561,353	June 2	516	130 }	75	1469
Snell, Arthur T., Santa Barbara, Cal. Safety-pin.....	571,054	Nov. 10	1132	265 }	77	878
Snell, Benton S., Kissimmee, Fla. Roller-bed and measurer for lumber.....	552,788	Jan. 7	531	130 } 131 }	74	100
Snell, Charles M., Danbury, Conn. Hat-crown-pouncing machine.....	569,890	Oct. 20	2051	488 } 489 }	77	414
Snell, David, Middleport, N. Y. Extension-ladder.....	559,626	May 5	471	109 }	75	773
Snell, Samuel, Birmingham, England. Bicycle-lamp.....	554,009	Feb. 1	373	82 }	74	574
Snelling, David, Baker, Ill. Separator for grain-threshers.....	568,807	Oct. 6	159	38 }	77	32
Snider, Clarence A., Cleveland, Ohio. Centrifugal drying and filtering machine.....	569,677	Oct. 20	1681	398 }	77	349
Snively, Charles H., and J. Hirsch, New York, N. Y. Placket-fastener.....	556,070	Mar. 10	1043	248 }	74	1342
Snodgrass, Jesse, Kenton, Ohio. Gynecological stirrup.....	564,947	July 28	2991	712 }	76	598
Snoeck, Albert, Hartford, Conn. Shedding mechanism for looms.....	558,221	Apr. 14	1260	307 } 308 }	75	256
Snoeck, Albert, Hartford, Conn. Shedding mechanism for looms.....	558,222	Apr. 14	1266	309 }	75	256
Snow, Benjamin W., assignor to J. Whatley, Syracuse, N. Y. Key-socket for incandescent lamps.....	554,896	Feb. 18	1937	456 }	74	900
Snow, Charles B., and C. A. Sherman, Norwich, Conn. Knife-grinding machine.....	570,966	Nov. 10	986	229 }	77	850
Snow, Clark, Oxford, Ala. Vehicle-brake.....	570,345	Oct. 27	2909	690 }	77	588
Snow, Frank P., Baker City, Oreg. Quartz-mill.....	569,069	Oct. 6	607	138 }	77	116
Snow, Frederick, Lynn, Mass. Carving-machine.....	558,223	Apr. 14	1268	309 } 310 }	75	256
Snow, George B., Buffalo, N. Y. Oil-flame regulator for vulcanizers.....	556,701	Mar. 17	2174	508 }	74	1569
Snow, George B., Buffalo, N. Y. Oil-flame regulator for vulcanizers.....	556,702	Mar. 17	2176	508 }	74	1569
Snow, Henry L., St. Louis, Mo. Replacing-frog.....	560,944	May 26	2949	677 }	75	1312
Snow, Levi T., assignor to New Haven Display Fixture Co., New Haven, Conn. Display-frame.....	564,034	July 14	1397	325 }	76	274
Snow, Stephen, Everett, Mass., assignor to Copeland Rapid Laster Manufacturing Company. Lasting-tool.....	568,463	Sept. 29	3026	726 }	76	1902
Snow, Stephen, Everett, Mass., assignor to Goodyear Shoe Machinery Company. Lasting-machine.....	569,357	Oct. 13	1110	264 }	77	229
Snowden, Edward P., St. Joseph, Mo. Safety arc-lamp hanger.....	558,993	Apr. 28	2594	631 }	75	538
Snowden, Edward P., St. Joseph, Mo. Safety device for hanging electric arc lamps.....	567,322	Sept. 8	1057	252 }	76	1490
Snowden, Ira E. (See Snowden, William T. and I. E.).....						
Snowden, John W., Evanston, Ill. Umbrella.....	569,248	Oct. 13	923	220 }	77	192
Snowden, William T. and I. E., Hughesville, Pa. Press.....	566,238	Aug. 18	2325	568 } 569 }	76	1092
Snowman, Herman, Marlborough, N. Y. Stringed musical instrument.....	568,376	Sept. 29	2881	692 } 693 }	76	1875
Snyder, Charles H. (See Williams, Hubbard D. B., assignor.).....						
Snyder, Chastaine M., et al. (See Robinson, Frick, and Shields, assignors.).....						
Snyder, Emmanuel H., Burdette, Iowa. Garden-rake.....	567,364	Sept. 8	1134	272 }	76	1503

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Snyder, George W., <i>et al.</i> (See Robinson, Frick, and Shields, assignors.)						
Snyder, George W., Grand Rapids, Mich. Combined rule and try-square.....	567,869	Sept. 15	1972	473	76	1678
Snyder, George W., Orangeville, Ohio. Machine for grading potatoes or onions.....	570,305	Oct. 27	2848	675 676	77	576
Snyder, George W., assignor of one-half to A. H. Fox, Elmira, N. Y. Thill-coupling.....	564,542	July 21	2269	532	76	448
Snyder, George W., assignor of one-half to P. Sullivan, Elmira, N. Y. Thill-shifter for vehicles.....	567,817	Sept. 15	1891	453	76	1662
Snyder, Lyman H., Southington, Conn. Floor and ceiling plate.....	568,632	Sept. 29	3356	804	76	1962
Snyder, John C. (See Dean and Snyder.)						
Snyder, John J., Salt Lake City, Utah. Tobacco-pipe cleaner.....	554,739	Feb. 18	1654	390	74	846
Snyder, John T., Luzerne, Pa. Rock and coal drill or auger.....	558,994	Apr. 28	2597	631	75	538
Snyder, Ransom M., New York, N. Y. Handle-bar for bicycles.....	567,663	Sept. 15	1627	392	76	1612
Snyder, Richard A. L., and A. F. Tinnerholm, Pittsburg, Pa., assignors to American Electrical Heater Company, Detroit, Mich. Electric heating apparatus.....	566,545	Aug. 25	2899	706 707	76	1216
Snyder, Robert C., Colfax, Ill. Bake-pan.....	573,045	Dec. 15	1677	403	77	1637
Snyder, Tilghman B., Snyder's, Pa. Plow.....	562,672	June 23	2802	680	75	1957
Snyder, W. M. (See Barclay, Howard, assignor.)						
Snyder, Waldo V., Cleveland, Ohio. Garment-clasp.....	555,746	Mar. 3	443	105	74	1209
Soar, Arthur B., and E. W. Collier, London, England. Wire-gauze brush for dynamos or motors.....	566,870	Mar. 24	2486	586	74	1644
Sobey, John S., Calumet, Mich. Grater.....	564,656	July 28	2480	585	76	506
Sobey, William, assignor to J. I. Case Plow Works, Racine, Wis. Wheel-cultivator.....	558,995	Apr. 28	2599	632 633	75	539
Sobinski, Charles O. (See Slane and Sobinski.)						
Sobinski, Charles O. (See Vinbrux and Sobinski.)						
Soble, R., <i>et al.</i> (See Mincer, Louis L., assignor.)						
Sobotka, Gustave, New York, N. Y., and A. Klemetschek, Baltimore, Md. Manufacturing beer or ale.....	553,269	Jan. 21	1420	345	74	295
Soby, Charles. (See Gray, William, assignor.)						
Société Anonyme de la Soie Française. (See Du Vivier, Jules H., assignor.)						
Société Anonyme de Métallurgie du Cuivre, Procédés Pre. Manhes. (See Manhes, Pierre, assignor.)						
Société Anonyme des Matières Colorantes et Produits Chimiques de St. Denis. (See Poirier, Alcide F., assignor.)						
Société Anonyme pour la Transmission de la Force par l'Électricité. (See Hutin and Leblanc, assignors.)						
Société d'Electro-Chimie. (See Boucher, Anthelme E. W., assignor.)						
Société la Précision. (See Cruyt, William J., assignor.)						
Society of Chemical Industry in Basle. (See Schmid, Jakob, assignor.)						
Society of Chemical Industry in Basle. (See Schmid and Jedlicka, assignors.)						
Soderstrom, Gus. (See Peterson and Soderstrom.)						
Solar Manufacturing Company. (See Morss, Stephen B., assignor.)						
Solar Refining Company. (See Frasch, Herman, assignor.)						
Solatinow, Joseph, Paterson, N. J. Game-counter.....	563,086	June 30	3589	860	75	2129
Solatinow, Joseph, Paterson, N. J. Game-counter.....	571,174	Nov. 10	1351	315	77	918
Solberg, George A., Sunburg, Minn. Indian club.....	558,320	Apr. 14	1428	351	75	288
Sole, John W. F., Guelph, Canada. Furnace.....	560,657	May 26	2437	557 558	75	1213
Soleau, Eugène F. A., Paris, France. Incandescent-electric-lamp fitting.....	564,723	July 28	2602	619 620	76	527
Soley, Frank. (See Dyer and Soley.)						
Soley, Frank, assignor to D. K. Miller Lock Company, Philadelphia, Pa. Lock.....	555,408	Feb. 25	2852	673	74	1086
Solfe, John W. (See Brevard, Orr, and Sofge.)						
Solignac, Louis E., Paris, France. Steam-generator.....	560,286	May 19	1738	396	75	1073
Solomon, Edgar J., Carlinville, Ill. Spark-arrester.....	553,079	Jan. 14	1078	263	74	216
Solomon, Emmet G., Omaha, Nebr. Yacht-racing toy.....	568,808	Oct. 6	161	38	77	33
Solter, John, assignor of one-half to G. L. Krebs, Baltimore, Md. Can-soldering machine.....	554,151	Feb. 4	645	146	74	623
Somdal, Truls A., Mansfield, Ill. Needle-threader.....	553,080	Jan. 14	1079	263	74	216
Somerville, George J. (See Bennett, Somerville, and McLean.)						
Somerville, Thomas E., Chicago, Ill. Nut-lock.....	568,416	Sept. 29	2949	708	76	1888
Sommer, George P., and T. Sly, Honesdale, Pa. Device for reducing size of rings.....	569,522	Oct. 13	1386	327	77	278
Sommer, John. (See Sommer, Peter, J., and P. W.)						
Sommer, Peter and J., Tremont, Ill. Fence-fabric stretcher.....	566,031	Aug. 18	1987	481 482	76	1028
Sommer, Peter, J., and P. W., Tremont, Ill. Wire-stretcher.....	566,030	Aug. 18	1956	481	76	102
Sommer, Peter W. (See Sommer, Peter, J., and P. W.)						
Sommer, Richard, Sommerswalde, and E. Polzin, Berlin, Germany. Bridle-bit.....	556,564	Mar. 17	1972	460	74	1530
Sommerfeld, August, Hermann, Mo. Supporting-stand.....	559,415	May 5	126	27	75	706
Sommerfeld, August, assignor of one-half to C. Gaus, Hermann, Mo. Window and blind.....	554,463	Feb. 11	1189	277	74	741
Sommerfeld, Heinrich, Canton, assignor of one-half to K. Ehrlich, Lehigh, Kans. Gang-plow.....	562,932	June 30	3288	794	75	2069
Sommerfeld, Heinrich, Canton, assignor of one-half to B. S. Ebel, Hillsborough, Kans. Carpet-stretcher.....	564,317	July 21	1901	449	76	381
Sommerfeldt, Halfdan, Baltimore, Md. Draftman's measure.....	569,358	Oct. 13	1111	264	77	920
Somes, Edgar R., Melrose, Mass. Card-catalogue for libraries, &c.....	572,132	Dec. 1	71	16	77	1292
Son, Eleanor D., Utica, N. Y. Corn-holder.....	556,369	Aug. 4	760	181	76	758
Sondheim, Lewis H., New York, N. Y. Cigarette and making same.....	556,218	Mar. 10	1311	308	74	1391
Sondheim, Lewis H., New York, N. Y. Smoking-tube.....	561,288	June 2	398	99	75	1447
Song, Arvid. (See Hildebrandt, Rudolph, assignor.)						
Sonn, Leopold, New York, N. Y. Display-box.....	558,432	Apr. 14	1634	394	75	326
Sonne, Otto F., Boston, Mass. Grade-delineator.....	573,717	Dec. 22	2941	695	77	1889
Sonneson, Christian, Torrington, Conn. Vegetable-parer.....	566,812	Sept. 1	123	30	76	1305
Soper, Frank, Denver, Colo., assignor of one-third to N. O. McClees. Ore-concentrator.....	552,931	Jan. 14	834	202	74	170
Soper, George J., Brooklyn, N. Y. Electric push-button.....	559,416	May 5	128	27	75	706
Sorenson, Theolinda B., Chicago, Ill. Combined coal-shovel and ash-sifter.....	571,205	Nov. 10	1400	327	77	927
Sorgan, Otto, New York, N. Y. Mechanical musical instrument.....	572,458	Dec. 8	656	155	77	1403
Sorsoleff, Isaac, Owatonna, Minn. Stop-box.....	572,836	Dec. 8	1317	316	77	1548
Soto, Abelardo J., Martinez, Cal. Arm-rest for books.....	571,936	Nov. 24	2680	636	77	1201
Sotter, Jacob C., Pottstown, Pa. Feed-water heater and purifier.....	561,032	May 26	3084	711	75	1337
Soulé, George W., Meridian, Miss. Rotary engine.....	560,760	May 26	2609	600	75	1247
Souney, Edward C. and T. D., Sacramento, Cal. Invalid-bed.....	552,672	Jan. 7	299	80	74	58
Souney, Thomas D. (See Souney, Edward C. and T. D.)						
Sours, John L., Anoka, Minn. Nippers.....	573,548	Dec. 22	2619	628	77	1827

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South Bend Iron Works. (See Anderson, Charles, assignor.)						
South Bend Iron Works. (See Oliver, James, assignor.)						
Southard, Calvin B., St. Albans, Me. Cut-off box machine.....	554,152	Feb. 4	647	147	74	623
Southard, Frank E., Auburndale, Ohio. Hand-sled.....	557,346	Mar. 31	3333	800	74	1834
Southard, Robertson & Co. (See Southard, William D., assignor.)						
Southard, William D., assignor to Southard, Robertson & Co., Peekskill, N. Y. Combined fuel and gas stove.....	558,618	Apr. 21	1942	471	75	399
Southey, Henry, Worthing, England. Boot-cleaning machine.....	564,115	July 14	1556	365	76	306
Southgate, Louis W., Worcester, Mass., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-machine.....	557,907	Apr. 7	669	160	75	126
Southgate, Louis W., Worcester, Mass., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-machine.....	558,996	Apr. 28	2601	633	75	539
Southgate, Louis W., Worcester, Mass., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Apparatus for handling offset webs.....	560,945	May 26	2951	677	75	1312
Southgate, Louis W., Worcester, Mass., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-press.....	569,434	Oct. 13	1229	{ 288 289 }	{ 77 77 }	{ 249 249 }
Southwark Foundry and Machine Company. (See Good, William E., assignor.)						
Southwark Foundry and Machine Company. (See Good and Marichal, assignors.)						
Southwark Foundry and Machine Company. (See Marichal, Arthur, assignor.)						
Southwick, Albert N., New York, N. Y. Apparatus for sales-checking.....	574,010	Dec. 29	3472	830	77	2001
Southwick & Co., George W. (See Southwick, George W., assignor.)						
Southwick, David E. (See Rowell, George W., assignor.)						
Southwick, George W., assignor to G. W. Southwick & Co., Stamford, Conn. Belt-fastening.	562,747	June 23	2940	712	75	1984
Southwick, Jesse N., and A. Walker, said Southwick assignor to said Walker; said Walker assignor of two-thirds to W. and T. Thompson, What Cheer, Iowa. Coal or rock drilling machine.....	563,087	June 30	3590	860	75	2129
Spahr, Fritz, Rockford, Ill. Faucet.....	568,217	Sept. 22	2611	628	76	1809
Spain, Andrew J., and S. K. Christopher, Gainesville, Ga. Cotton cultivator and chopper.	554,153	Feb. 4	653	147	74	625
Spake, William H. (See Moon, Spake, and Bain.)						
Spalckhaver, William, Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Web-printing machine.....	567,051	Sept. 1	562	131	76	1388
Spalding-Bidwell Company. (See Ahern, Florence L., assignor.)						
Spalding, Frank, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Micrometer gage.....	557,445	Mar. 31	3500	837	74	1856
Spalding, George, and J. S. Robbins, Stockton, Cal. Rotary-disk plow.....	563,514	July 7	473	111	76	90
Spalding, George, and J. S. Robbins, Stockton, Cal. Rotary plow.....	563,515	July 7	475	112	76	90
Spalding, George, and J. S. Robbins, Stockton, Cal. Wheeled plow.....	563,516	July 7	476	112	76	91
Spamer, Eliza M. and R. F., St. Louis, Mo. Removable cover for bicycle handle-bars.....	571,025	Nov. 10	1087	254	77	869
Spamer, Richard F. (See Spamer, Eliza M. and R. F.)						
Spangenberg, Eugene, St. Louis, Mo. Car-fender.....	566,347	Aug. 25	2514	616	76	1143
Spangler, Adam, Silverton, Oreg. Steam bake-oven.....	564,116	July 14	1558	366	76	307
Spangler, John A., Washington, Pa. Pile-driver.....	569,435	Oct. 13	1234	{ 289 290 }	{ 77 77 }	{ 250 250 }
Spangler, Laura S. (See Jessop, Jonathan, assignor.)						
Spann, William M., Doniphan, Mo. Propeller for boats.....	568,499	Sept. 29	3090	744	76	1914
Spannaus, Otto. (See Breakspear, Spannaus, and Weisbecker.)						
Sparsburg, John, Chicago, Ill. Castrating instrument.....	558,668	Apr. 21	2036	490	75	416
Sparks, Charles, assignor of one-half to J. H. Plumb and J. S. Metteer, Pacific Grove, Cal. Hose-clamp.....	565,698	Aug. 11	1375	335	76	893
Sparks, William E., assignor to Sargent & Company, New Haven, Conn. Lock.....	562,204	June 16	2018	487	75	1795
Sparring, William, assignor of one-half to T. E. Little, Little Rock, Ark. Churn.....	564,228	July 21	1747	409	76	354
Sparmo, Mariano, New York, N. Y. Car-fender.....	552,789	Jan. 7	533	131	74	100
Sparmo, Mariano, and L. Russo, New York, N. Y. Car-fender.....	573,242	Dec. 15	2031	487	77	1702
Sparr, Augustus, Chicago, Ill. Machine for coating picture-moldings.....	559,466	May 5	203	45	75	721
Sparr, Benjamin F., Newark, N. J. Antifriction-bushing.....	567,728	Sept. 15	1734	415	76	1632
Spaugh, Sarah, St. Louis, Mo. Fastening for garments.....	567,843	Sept. 15	1936	463	76	1671
Spaulding, Algenon S., Worcester, Mass. Flexible door.....	558,577	Apr. 21	1873	455	75	387
Spaulding, Almond R., Clinton, Me. Combined valve and seat grinding device.....	563,331	July 7	175	39	76	36
Spaulding, Edward, Brooklyn, N. Y. Auditory device.....	565,872	Aug. 11	1692	414	76	952
Spaulding, Elijah F., Bound Brook, N. J. Cash-register.....	573,046	Dec. 15	1678	{ 403 404 }	{ 77 77 }	{ 1637 1637 }
Spaulding, Elijah F., assignor to American Engine Company, Bound Brook, N. J. Valve for steam-engines.....	572,579	Dec. 8	862	{ 207 208 }	{ 77 77 }	{ 1461 1461 }
Spaulding, Frank M., Kalamazoo, assignor of one-third to H. C. King, Three Rivers, Mich. Electric igniter for gas or hydrocarbon engines.....	562,673	June 23	2803	681	75	1957
Spaulding, Helen E. (See Spaulding, James M., assignor.)						
Spaulding, Henry F., Canastota, S. D. Grain-bundle stacker.....	571,865	Nov. 24	2547	{ 603 604 605 198 199 200 }	{ 77 77 77 75 75 75 }	{ 1174 1174 1174 856 856 856 }
Spaulding, Hollon C., Boston, Mass. Telegraphic printing apparatus.....	559,821	May 12	846	{ 198 199 200 }	{ 75 75 75 }	{ 856 856 856 }
Spaulding, James M., assignor to H. E. Spaulding, Syracuse, N. Y. Rail-fastener.....	568,173	Sept. 22	2535	610	76	1795
Spaulding, Nelson W., Monroeville, Ind. Square.....	558,117	Apr. 14	1088	{ 266 267 }	{ 75 75 }	{ 223 223 }
Spaulding & Pepper Company. (See Pepper, Charles L., assignor.)						
Spaulding, Warren W., Waterville, Me. Medical compound.....	565,125	Aug. 4	307	.....	76	674
Spaventa, Camillo, New York, N. Y. Advertising-clock.....	562,430	June 23	2393	581	75	1880
Speakman, William M., Philadelphia, Pa. Dental-disk carrier.....	552,625	Jan. 7	208	57	74	41
Spear, John J., Landport, England. Apparatus for reducing noise of water flowing into tanks.....	560,287	May 19	1740	396	75	1074
Spear, Riley R., Wauke, Iowa. Check-row corn-planter.....	557,160	Mar. 31	2982	712	74	1762
Specht, George H., Louisville, Ky. Book-covering machine.....	555,910	Mar. 3	716	{ 173 174 }	{ 74 74 }	{ 1263 1263 }
Specialty Manufacturing Company. (See Capewell, George J., assignor.)						
Specialty Manufacturing Company. (See Mingle, William J., assignor.)						
Specialty Manufacturing Company. (See Mingle and Bemis, assignors.)						
Specialty Novelty Company. (See Freeman, Albert A., assignor.)						
Speer, Edward D., Providence, Md., assignor to himself, and W. M. Singerly, Philadelphia, Pa. Paper-pulping engine.....	573,627	Dec. 22	2778	658	77	1860
Speer, Edwin A., assignor of three-fourths to J. P. Collins, Toledo, Ohio. Automatic fire-alarm system.....	564,229	July 21	1748	409	76	354
Speer, Garret F. (See Hoyt and Speer.)						
Speirs, John C. (See Bye, Martin, assignor.)						
Spelman, Irwin H., Cortland, Ohio. Saw-set and tooth-holder.....	557,908	Apr. 7	674	161	75	128
Spence, Harvey S., Jewett, Ohio. Lifting-jack.....	570,614	Nov. 3	331	82	77	700

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Spence, James, Jr., Houston, Tex. Speed-recorder.....	559,627	May 5	474	110	75	773
Spence, Lavosier. (See Cox and Spence.)						
Spence, William H., Fairmount, Ind. Music-leaf holder and turner.....	558,997	Apr. 28	2602	633	75	540
Spencer, Albert E., Brooklyn, N. Y. Cushion-tire for vehicle-wheels.....	566,032	Aug. 18	1990	482	76	1029
Spencer, Albert E., Brooklyn, N. Y. Cushion-tire for vehicle-wheels.....	569,523	Oct. 13	1387	327	77	278
Spencer, Alvah C., Boston, assignor of one-half to A. P. Hanscom, West Medford, Mass. Machine for inseam trimming and beating out welts.....	559,314	Apr. 28	3204	774	75	652
Spencer, Charles F., et al. (See Saxton, Augustus C., assignor.)						
Spencer, Charles L., Providence, R. I. Hand raisin-seeder.....	552,975	Jan. 14	906	220	74	183
Spencer, Eugene J., San Diego, Cal. Thill-support.....	566,348	Aug. 25	2517	616	76	1144
Spencer, Frank S., et al. (See Stover, Peter N., assignor.)						
Spencer, Frederick M., et al. (See Sherwood, Earl, assignor.)						
Spencer, George A., Greenbush, assignor of one-half to F. C. Huyck & Sons, Albany, N. Y. Wool-oiling machine.....	553,628	Jan. 28	2041	483	74	425
Spencer, George O., Manchester, N. H. Road snow-plow.....	569,249	Oct. 13	924	221	77	192
Spencer, Ira H., Hartford, Conn. Starting apparatus for organs.....	553,695	Jan. 28	2160	511	74	446
Spencer, Jervis, Garrison, Md. Self-locking pulley-block.....	565,699	Aug. 11	1376	335	76	893
Spencer, Jervis, Baltimore county, Md. Device for hanging curtains.....	566,425	Aug. 25	2672	653	76	1174
Spencer, Lloyd G., Chicago, Ill. Pump attachment for bicycles.....	559,418	May 5	131	28	75	706
Spencer, Lucretia P., Dover, Del. Slate-pencil sharpener.....	570,570	Nov. 3	258	64	77	686
Spencer, Oliver H. P. G., assignor of one-half to W. G. Bayley and W. M. Quinn, Mount Carmel, Ill. Curtain or shade fixture.....	562,257	June 16	2098	508	75	1809
Spencer, Ripley F., Ashland, Wis. Harness.....	573,306	Dec. 15	2172	518	77	1727
Spencer, Sidney E., assignor to Automatic Cycle Stand, Limited, London, England. Bicycle-rest.....	572,664	Dec. 8	1010	244 245	77	1491
Spencer, Slaughter L., assignor of one-half to T. A. Taylor, Roanoke, Va. Automatic cattle-guard.....	571,142	Nov. 10	1307	304	77	909
Spencer, Theodore. (See Wales and Spencer.)						
Spencer, Thomas, Philadelphia, Pa. Electric-arc lamp.....	556,479	Mar. 17	1817	422 423	74	1502
Spencer, Thomas, and C. Toerring, Jr., assignors to Helios Electric Company, Philadelphia, Pa. Electric-arc lamp.....	572,777	Dec. 8	1219	295	77	1529
Spencer, Warner S. (See Temple and Spencer.)						
Spencer, Willard, Bath, assignor of one-half to J. A. Houck, Albany, N. Y. Street-car fender.....	557,161	Mar. 31	2984	713	74	1763
Spencer, William, Brooklyn, assignor to W. W. Farmer, New York, N. Y. Machine for engraving brass or other rules, bars, or similar articles.....	559,822	May 12	852	190 191	75	857
Spencer, William B., Chicago, Ill. Valve for piping.....	555,588	Mar. 3	175	41	74	1162
Spencer, William B., Chicago, Ill. Syringe.....	559,417	May 5	130	28	75	706
Spencer, William H., New York, N. Y. Postal package-box.....	567,283	Sept. 8	976	231	76	1475
Sperry, Barton E., Batavia, Ill. Transverse testing-machine.....	568,417	Sept. 29	2950	708	76	1888
Sperry, Edwin A., Gunnison, Colo. Vanner.....	561,355	June 2	519	130	75	1470
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. System of control for electric motors.....	555,291	Feb. 25	2656	622	74	1049
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. Power-transmitting device.....	557,162	Mar. 31	2985	713	74	1763
Sperry, Elmer A., Cleveland, Ohio, assignor, by mesne assignments, to General Electric Company, of New York. Power-gearing for electric cars.....	560,375	May 19	1893	431	75	1100
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. Controller for electric cars.....	560,658	May 26	2439	558	75	1214
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. Power-gearing for electric cars.....	561,354	June 2	517	130	75	1469
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. Controller for electric cars.....	562,100	June 16	1849	449	75	1762
Sperry, Elmer A., Cleveland, Ohio, assignor, by mesne assignments, to General Electric Company, of New York. Power-transmitting mechanism.....	562,498	June 23	2498	606	75	1900
Sperry, Elmer A., Cleveland, Ohio, assignor, by mesne assignments, to General Electric Company, of New York. Coupling for electric or other power transmission.....	562,499	June 23	2500	606	75	1901
Sperry, Elmer A., Cleveland, Ohio, assignor, by mesne assignments, to General Electric Company, of New York. Coupling device.....	562,500	June 23	2501	606 607	75	1901
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. Electric controller.....	562,501	June 23	2503	607	75	1901
Sperry, Elmer A., Cleveland, Ohio, assignor, by mesne assignments, to General Electric Company, of New York. Mechanical movement.....	563,424	July 7	322	72, 73	76	63
Sperry, Elmer A., Cleveland, Ohio, assignor, by mesne assignments, to General Electric Company, of New York. Power-gearing for trucks.....	563,425	July 7	325	73	76	64
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. Coupling device.....	565,935	Aug. 18	1814	441	76	993
Sperry, Elmer A., Cleveland, Ohio, assignor, by mesne assignments, to General Electric Company, of New York. Power-gearing for electric or other motors.....	565,936	Aug. 18	1815	441	76	994
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. Electric brake.....	565,937	Aug. 18	1817	441 442	76	994
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. Power-transmitting gearing for electric-railway trucks.....	565,938	Aug. 18	1820	442	76	995
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. Controller for electric-railway cars.....	565,939	Aug. 18	1821	442 443	76	995
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. System of control for electric motors.....	566,426	Aug. 25	2673	653 654	76	1174
Sperry, Elmer A., Cleveland, Ohio, assignor, by mesne assignments, to General Electric Company, of New York. Power-gearing for trucks.....	567,418	Sept. 8	1218	291 292	76	1519
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. System of control for electric motors.....	569,305	Oct. 13	1022	244	77	211
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. Electric brake.....	571,409	Nov. 17	1738	415	77	1005
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. Electric controller.....	571,410	Nov. 17	1740	415	77	1005
Sperry, Elmer A., Cleveland, Ohio, assignor to General Electric Company, of New York. Electric car-brake.....	574,120	Dec. 29	3670	875 876	77	2038
Sperry, Henry H., Albany, N. Y. Boiler-flue attachment.....	565,370	Aug. 4	766	181	76	758
Sperry, Washington W., Philadelphia, Pa. Coal-chute.....	559,628	May 5	477	110	75	773
Speyer, Emilie. (See Speyer, Julius, assignor.)						
Speyer, Julius, assignor to E. Speyer, Chicago, Ill. Indicator for books, forms, or the like.....	566,943	Sept. 1	357	83	76	1350
Spicer, Vibe C., Chicago, Ill. assignor to Union Switch and Signal Company, Swissvale, Pa. Switch and signal apparatus.....	553,477	Jan. 21	1773	422	74	360
Spiegel, James C., Middletown, N. Y. Bicycle-handle.....	572,226	Dec. 1	238	57	77	1324
Spiegle, Charles, Jr., Passaic, N. J., assignor to Donaldson Brothers, New York, N. Y. Toy.....	562,674	June 23	2804	681	75	1957

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Spiegle, Fred M., Philadelphia, Pa., assignor to American Lithographic Company of New York. Articulated toy figure	572,730	Dec. 8	1140	275	77	1514
Spielman, George D., deceased; W. C. Spielman, administrator, assignor of one-half to F. L. Denghausen, Cincinnati, Ohio. Ink-well.	568,709	Sept. 29	3494	836	76	1990
Spielman, W. C., administrator. (See Spielman, George D.)						
Spies, Louis G. (See Freiwald, Gustav, assignor.)						
Spindler, Valentine, Saginaw, Mich. Hose-carriage	570,237	Oct. 27	2682	637	77	547
Spink, John L., et al., trustees. (See Pennycuik, James G., assignor.)						
Spitzenberg, Philip, Brooklyn, N. Y. Valve	572,580	Dec. 8	865	208	77	1462
Spitzingen, Herman K. A. F. von, Baltimore, Md. Opera-chair	565,807	Aug. 11	1567	382	76	927
Spitzner, Ernest O., Portland, Oreg. Violin-bow	565,395	Aug. 4	806	191	76	766
Spivey, Thomas S., Cincinnati, Ohio. Type-writing machine	567,365	Sept. 8	1136	272	76	1504
Spithoff, Peter, Boston, Mass. Roller adjustment for printing-presses	552,790	Jan. 7	537	131	74	101
Sponable, Isaac, et al. (See Cazier, Perry H., assignor.)						
Sponseller, John E., Hoisington, Kans. Band-cutter and feeder	552,591	Jan. 7	150	41, 42	74	30
Sporleder, Michael, Lexington, Okla. Ter. Watch-regulator	569,844	Oct. 20	1981	471	77	401
Spradlin, Samuel R., North Topeka, Kans. Sad-iron	553,197	Jan. 14	1291	312	74	256
Spragg, Lorenzo D., Marion, Ohio. Nut-lock	559,629	May 5	478	110	75	774
Sprague, Anson, San Leandro, Cal. Electric railway	573,169	Dec. 15	1897	457	77	1678
Sprague, Arthur A., New York, N. Y. Railway-station signal	573,047	Dec. 15	1693	405	77	1640
Sprague, Austin V. M., New York, N. Y. Sterilizer	571,541	Nov. 17	1977	470	77	1048
Sprague, Austin V. M., New York, N. Y. Door for sterilizing-ovens	571,542	Nov. 17	1979	471	77	1048
Sprague, Chester M., et al. (See Ayer, Albert E., assignor.)						
Sprague, Daniel A., Poland, N. Y. Cheese-press	558,321	Apr. 14	1429	351	75	288
Sprague, David L., Clear Lake, Iowa. Grinding-mill	563,988	July 14	1322	308	76	260
Sprague, Edwin L. (See Stevenson, Daniel W., assignor.)						
Sprague, Edwin L., et al. (See Shaw, Clarence P., assignor.)						
Sprague Electric Railway and Motor Company. (See O'Shaughnessy and Crosby, assignors.)						
Sprague, Enoch, St. Louis, Mo. Trestle for plasterers, &c.	555,269	Feb. 25	2609	612	74	1040
Sprague, Frederick H., Orange, Mass. Vest	571,543	Nov. 17	1981	471	77	1048
Sprague, Harvey, Buffalo, N. Y. Wrench	556,443	Mar. 17	1758	408	74	1492
Sprague Manufacturing Company. (See McIntyre, John C., assignor.)						
Sprague Manufacturing Company. (See Roberts, William, assignor.)						
Sprague, Martin V., et al. (See Ogden, Ernest N., assignor.)						
Sprague, Martin V., et al. (See Ogden and Meech, assignors.)						
Sprague, William D., Black Mountain, N. C. Kneading and rolling machine	562,258	June 16	2099	509	75	1809
Spratt, Augustus N., Alpena, Mich. Hitching-post	554,963	Feb. 18	2048	485	74	920
Spratt, Charles, London, England. Speed-indicator	568,046	Sept. 22	2298	557	76	1750
Sprauer, Apollonia, Huntingburg, Ind. Photographic print and negative washer	567,052	Sept. 1	564	132	76	1388
Sprich, John, Jr. (See Sulzbach, Jacob and G., assignors.)						
Spring, Sylvester O. (See Cole, Charles L., assignor.)						
Springer, Franklin. (See Miller, Joseph H., assignor.)						
Springer, James J., assignor of one-half to S. P. Town, Philadelphia, Pa. Hook and eye for garments, &c.	561,289	June 2	401	99	75	1448
Springer, Joseph W. (See Estes, John H., assignor.)						
Springer, Narcissa S., assignor of one-half to J. N. Weld, Cleveland, Ohio. Medicine dose-indicating cabinet	569,359	Oct. 13	1111	265	77	229
Springer, Oliver T., Burlington, Canada. Sliding or folding door	567,370	Sept. 8	1460	350	76	1563
Springer Separator Company. (See Springer, Thomas H., assignor.)						
Springer, Theodore G., et al. (See Whitehead, Cabell, assignor.)						
Springer, Thomas H., Philadelphia, Pa. Centrifugal creamer	561,829	June 9	1376	330	75	1654
Springer, Thomas H., assignor to Springer Separator Company, Incorporated, Philadelphia, Pa. Dirt-arrester for liquid-separators	573,833	Dec. 22	3138	747	77	1926
Springfels, Charles F., Buffalo, N. Y. Snow or ice melting apparatus	557,163	Mar. 31	2987	713 714	74	1763
Springmire, Rachel W., Tiffin, Iowa. Dish-cleaner	553,943	Feb. 4	260	57	74	553
Springsted, Arthur E., Bluffton, Ind. Combined chair and cane	574,011	Dec. 29	3472	830	77	2001
Springsted, Henry, Schenectady, N. Y. Barrel-cover	571,544	Nov. 17	1982	471	77	1049
Springsteen, Silas, and H. Harris, Holland, Mich. Adjustable school desk and seat	572,731	Dec. 8	1141	275 276	77	1514
Springweiller, Philip W., et al. (See Porter, James S., assignor.)						
Sprinkle, William H., Galveston, Ind. Belt or eyelet punch	562,981	June 30	3392	816	75	2092
Sprinkle, William H., Lincoln, Ind. Band-cutter and feeder	570,514	Nov. 3	138	34, 35	77	664
Sproul, Henry M. (See Lyon, Dunham, and Sproul.)						
Sproul, William E. (See Lyon, Dunham, and Sproul.)						
Sproule, James, San Francisco, Cal. Seed-rack	553,571	Jan. 28	1950	460	74	409
Sproule, Robert F., Kittsburg, England. Relief-color screw stamping-press	566,239	Aug. 18	2326	569 570	76	1092
Sproull, Harmer & Sproull. (See Stickle, Samuel C., assignor.)						
Spühl, Heinrich, St. Gall, Switzerland. Embroidering-machine	562,675	June 23	2805	681	75	1958
Spurgin, Robert, Chicago, Ill. Memorandum calendar-pad	559,315	Apr. 28	3207	775	75	653
Spurr, Charles O., Brockton, Mass. Bicycle-handle	569,436	Oct. 13	1237	290	77	250
Spurr, George W., Marion, Ind. Egg-caster	557,622	Apr. 7	162	42	75	32
Spurr, George W., assignor to Household Specialty Company, Wabash, Ind. Egg-crate	569,390	Oct. 13	1163	277	77	238
Sputh, Robert, Dresden, Germany. Apparatus for making wood felt	571,580	Nov. 17	2039	485	77	1059
Spyer, Joseph, Mexico, Mexico. Adhesive plate for artificial dentures	554,740	Feb. 18	1656	391	74	846
Spyker, James C. (See Albright, Harry W., assignor.)						
Squier, Horace S., New Britain, Conn. Bridle-bit	552,932	Jan. 14	836	202 203	74	170
Squire, Roland M., Montreal, Canada. Pianoforte	555,409	Feb. 25	2854	673	74	1087
Squire, William. (See Livesey and Squire.)						
Squires, Charles W., Chicago, Ill. Mortise-lock	554,964	Feb. 18	2049	485 486	74	921
Squires, Charles W., Chicago, Ill. Lock	554,965	Feb. 18	2052	486 487	74	921
Squires, Charles W., Springfield, Mass. Lock. (Reissue)	11,564	Aug. 18	2398	588 589	76	1105
St. Bernard, Bion, St. Clair, Mich. Boat-detaching device	565,701	Aug. 11	1378	336	76	893
St. Charles Car Company. (See Udstad, Sigvald, assignor.)						
St. Croix, Edward J., Seattle, Wash. Air-ship	573,549	Dec. 22	2619	622	77	1827
St. Dennie, Richard D. (See Cleveland, George W., assignor.)						
St. Hubert, Jules C. de. (See Pokrantz and St. Hubert.)						
St. John, De Valois. (See Babcock and St. John.)						
St. John, Enos F., assignor of one-half to G. H. Bancroft, Highland Station, Mich. Wire-stay-weaving device	567,053	Sept. 1	565	132	76	1389

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St. John, Gamaliel C., New York, N. Y. Fuel-burner	553,696	Jan. 28	2162	511	74	447
St. John, Gamaliel C., New York, N. Y. Steam-meter	567,054	Sept. 1	566	132	76	1389
St. John, Gamaliel C., New York, N. Y. Grate	574,347	Dec. 29	4110	976	77	2118
St. John, Marsena, Ottawa, Kans. Overshoe-fastener	570,347	Oct. 27	2912	691	77	588
St. John, Spencer H., Canyon, Colo. Pulley-crowning machine	557,712	Apr. 7	330	79	75	63
St. John, Thomas M. (See Browning and St. John.)						
St. John, Thomas M., New York, N. Y. Manifold-copying pad	559,420	May 5	134	29	75	707
St. Louis Art Metal Company. (See Pauly and McQuilkin, assignors.)						
St. Louis Art Metal Company. (See Smith, Francis A., assignor.)						
St. Louis Electrical Supply Company. (See Ruebel, C. A. Ernst, assignor.)						
St. Louis Register Company. (See Rein, Gustavus, assignor.)						
St. Louis Stamping Company. (See Niedringhaus, Alexander, assignor.)						
St. Mary, Joseph, assignor to J. C. Winans, San Francisco, Cal., and P. St. Mary, Portland, Oreg. Pressure-governor	558,999	Apr. 28	2604	634	75	540
St. Mary, Peter, <i>et al.</i> (See St. Mary, Joseph, assignor.)						
Staats, Henry N. Cleveland, Ohio. Quadricycle	558,856	Apr. 21	2343	570	75	474
Stacey, Cyrus. (See Kline, Frank, assignor.)						
Stackhouse, Cassius C., <i>et al.</i> (See Walker, Joseph, assignor.)						
Stackhouse, Thomas H., Philadelphia, Pa. Compound stencil-sheet	565,043	Aug. 4	140	33	76	644
Stackpole, Charles F., Lynn, Mass. Sole-edge-burnishing machine	562,860	June 30	3159	765	75	2042
Stackpole, T., <i>et al.</i> (See Fisher, Robert J., assignor.)						
Stacy, Frank T., New York, N. Y. Portable fire-escape	561,733	June 9	1206	286	75	1623
Stacy, Fred M., Portsmouth, N. H. Hat-fastener	568,047	Sept. 22	2300	558	76	1751
Stacy, Fred M., Portsmouth, N. H. Music holder and turner	569,726	Oct. 20	1786	424	77	366
Stacy, Orrin T. (See Phinney, William B., assignor.)						
Stadelman, Charles H., Pittsburg, Pa. Jar or bottle	565,371	Aug. 4	762	181	76	758
Stadler, Rudolph. (See Kuepert and Stadler.)						
Stadtfeld, Charles, assignor to G. O. Warrington, Dayton, Ohio. Automatic car-switch	567,175	Sept. 8	784	185	76	1442
Stadtfeld, Charles, assignor to G. O. Warrington, Dayton, Ohio. Corn-planter	568,722	Sept. 29	3519	843	76	1995
Stadtmuller, Henry R., Whitneyville, assignor to Sargent & Company, New Haven, Conn. Master-key pin-lock	564,803	July 28	2736	651	76	551
Staede, Edward I. P., Mankato, Minn. Carbureter	572,837	Dec. 8	1318	316	77	1549
Stafford, Frank H., Chicago, Ill. Dental light and heater	553,572	Jan. 28	1951	460	74	409
Stafford, George A., Montague, Tex., assignor to one-half to F. H. Lieukfare, Terral, Ind. Ter. Wire twister and tightener	556,480	Mar. 17	1819	423	74	1503
Stafford, George W., Providence, R. I., assignor to Knowles Loom Works, Worcester, Mass. Loom	562,344	June 16	2258	547 548	75	1839
Stage, David L., Schenectady, N. Y. Refrigerator	564,165	July 14	1651	386	76	323
Stahl, Albert W., U. S. Navy, and R. Gatewood, deceased; F. B. Gatewood, Annapolis, Md., administratrix. Wave-motor	574,177	Dec. 29	3799	907	77	2059
Stahl, Harry E., assignor to Tomlinson & Stahl, Trenton, N. J. Crank-shaft and crank-shaft bearing for bicycles	563,211	June 30	3797	910	75	2168
Stahl, Henry K., Minneapolis, Minn. Grease-cup	556,780	Mar. 24	2337	551	74	1616
Stahl, John L., and F. B. Allen, Salt Lake City, Utah. Nozzle for watering-carts	561,065	May 26	3137	724	75	1343
Stahl, Karl M., New York, N. Y. Automatic gas-pressure regulator	572,838	Dec. 8	1319	316	77	1549
Stahlberg, Charles, Chicago, Ill. Time-stamp	552,647	Jan. 7	251 63 70	69	74	49
Stahlschmidt, Carl, Birtscheid, Germany. Preparing soluble saccharate of iron	564,261	July 21	1805		76	366
Staiger, John F., and G. W. Grabert, Mount Vernon, Ind.; said Grabert assignor to said Staiger. Cleaner for dust-collectors	572,620	Dec. 8	936	227 228	77	1476
Stair, Jacob L., Altamont, Ill. Furniture-base	558,854	Apr. 21	2341	569	75	473
Stake, Frank. (See North and Stake.)						
Staley, Ann, Alcony, Ohio. Stove-leg	554,381	Feb. 11	1034	240	74	712
Staley, James M., Reading, Pa. Car-fender	570,571	Nov. 3	259	64	77	686
Stalker, James, Rochester, N. Y. Device for scouring and polishing knives	566,944	Sept. 1	359	84	76	1351
Stall, William W., Boston, and J. T. Walton, Everett; said Walton assignor to said Stall and said Stall assignor to Boston Wood Rim Company, Bedford, Mass. Apparatus for making wood rims or bands	555,625	Mar. 3	237	56	74	1173
Stallard, F. M. (See Kite, Ambrose H., assignor.)						
Stallings, James W. (See Massey and Stallings.)						
Stallknecht, Harry S. (See Perdreux, Emile J., assignor.)						
Stamen, Levi A., Walnut, Iowa. Hay-rope trip	558,998	Apr. 28	2603	634	75	540
Stamford, Henry P., Grand View on Hudson, N. Y. Information-card	564,117	July 14	1559	366	76	307
Stamm, Jacob, Stuttgart, Germany. Electric annunciator	570,967	Nov. 10	988	230	77	850
Stammer, Caroline von, New York, N. Y. Bandage	565,700	Aug. 11	1377	336	76	893
Stanbridge, Samuel, assignor to one-half to S. Shorter, London, England. Machine for extracting and cleaning vegetable fibers	556,032	Mar. 10	960	230 231	74	1328
Stancil, Jesse W., Farmerville, La. Planter	569,891	Oct. 20	2058	489 490	77	415
Standard Air Brake Company. (See Merriam, Henry P., assignor.)						
Standard Brake Company. (See Howe, Henry L., assignor.)						
Standard Cotton Seed Company. (See Faulkner, James J., assignor.)						
Standard Coupler Company. (See Sessions, Henry H., assignor.)						
Standard Coupler Company. (See Sessions and Dennis, assignors.)						
Standard Dry-Kiln Company. (See Bemis, Albert T., assignor.)						
Standard Electric Signal Company. (See Denio, William L., assignor.)						
Standard Electric Signal Company. (See Hibbard, William W., assignor.)						
Standard Equipment Company. (See Foster, Charles E., assignor.)						
Standard Gauge Steel Company. (See Moltrup, William and S., assignors.)						
Standard Harrow Company. (See Babcock and St. John, assignors.)						
Standard Manufacturing Company <i>et al.</i> (See Bunting, William, Jr., assignor.)						
Standard Oil Company of New York. (See Saybolt, George M., assignor.)						
Standard Pearl Button Company. (See Carlyle and Nageborn, assignors.)						
Standard Railway Gate Company. (See Morse, William F., assignor.)						
Standard Sewing Machine Company. (See Mack, William A., assignor.)						
Standard Store Service Company. (See Gipe and Hildreth, assignors.)						
Standard Tool Company. (See Parpart, Otto, assignor.)						
Standard Underground Cable Company. (See Barrett, John A., assignor.)						
Standard Underground Cable Company. (See Barrett, John A., assignor.) (Reissue.)						
Standard Underground Cable Company. (See Marsh, Joseph W., assignor.)						
Standard Underground Cable Company. (See Reid, Edwin S., assignor.)						
Standfield, Edwin R., and W. Brew, Christchurch, New Zealand. Hat-securing apparatus	573,492	Dec. 22	2526	598	77	1809
Stanley, Charles E., Gallipolis, Ohio. Electric railway	561,830	June 9	1378	330	75	1654

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Stanley, Edward, Bridgeport, Pa. Mechanism for folding paper bags.....	568,500	Sept. 29	3090	{ 744 745 }	76	1914
Stanley Electric Manufacturing Company. (See Chesney and Kelly, assignors.)						
Stanley Electric Manufacturing Company. (See Kelly, John F., assignor.)						
Stanley Electric Manufacturing Company. (See Kelly and Chesney, assignors.)						
Stanley Electric Manufacturing Company. (See Kelly, Chesney, and Power, assignors.)						
Stanley Electric Manufacturing Company. (See Power, Pomeroy W., assignor.)						
Stanley, Frank F., trustee. (See Crosbie, John A., assignor.)						
Stanley, Frank F., <i>et al.</i> , trustees. (See Goddu, Louis, assignor.)						
Stanley, Franklin J., Brooklyn, N. Y. Machine for stretching leather.....	568,377	Sept. 29	2885	693	76	1877
Stanley, Henry O., Dixfield, Me. Artificial minnow.....	570,687	Nov. 3	506	118	77	733
Stanley, Ira N., assignor to himself, E. D. White, and J. E. Brick, Brooklyn, N. Y. Car-fender.....						
Stanley, John C. W., London, England. Means for treating refuse of cities.....	571,175	Nov. 10	1353	316	77	918
Stanley, John D., assignor of one-half to A. P. Merrill, Honcut, Cal. Hot-corn holder.....	565,577	Aug. 11	1163	279	76	851
Stanley, John D., assignor of one-half to A. P. Merrill, Honcut, Cal. Combined trace and holdback and shaft connection therefor.....	558,224	Apr. 14	1271	310	75	257
Stanley, Nelson D., and J. S. Reynolds, Essex, Vt. Trolley.....	559,544	May 5	338	82	75	748
Stanley Rule and Level Company. (See Traut and Schade, assignors.)	574,345	Dec. 29	4108	976	77	2117
Stanley Works. (See Corscaden, Thomas, assignor.)						
Stanley Works. (See Stevens, Willard E., assignor.)						
Stannard, John E., Springfield, Mass. Bicycle-pedal clip.....	570,778	Nov. 3	656	150	77	759
Stansbury, Elijah D., Plymouth, Ind. Guide-loop for checkreins.....	566,033	Aug. 18	1991	482	76	1029
Stansbury, George F., assignor of three-fourths to J. L. Goff, Weedsport, J. P. Pfohl, Syracuse, and E. W. Smith, Albany, N. Y. Buckle.....	565,396	Aug. 4	806	191	76	766
Stansel, Thomas J., assignor of one-half to A. Winslow and A. Thaison, Laredo, Tex. Automatic electric alarm.....	552,733	Jan. 7	418	{ 106 107 }	74	81
Stansfield, Howarth. (See Edgecomb, Harry A., assignor.)						
Stanton, Frederic B. (See Tozer and Stanton.)						
Stanton, Gilman S. (See Newell, Frank, assignor.)						
Stanton, Herbert. (See Tozer and Stanton.)						
Stanton, James P., Philadelphia, Pa., and W. Lewis, Camden, N. J. Apparatus for forging metallic rings.....	560,443	May 19	2023	463	75	1123
Stanton, William J., Jr., Lyndon, Vt. Coin holder or clip.....	559,758	May 5	706	167	75	815
Staple Fastening Machine Company. (See Hamm and Eaton, assignors.)						
Staples, John A., Newburg, N. Y. Wagon-jack.....	560,048	May 12	1285	289	75	939
Staples, John A., Newburg, N. Y. Upholstery.....	572,581	Dec. 8	866	{ 208 209 }	77	1462
Staples, Willard G., assignor of one-half to J. H. Lefavour, Brookfield, Mass. Screw holder and driver.....	565,808	Aug. 11	1568	382	76	927
Stapp, William A., and C. P. Hamilton, Tyler, Tex. Fluid-fuel burner.....	565,126	Aug. 4	308	73, 74	76	674
Star Novelty Company. (See Kersteter, John F., assignor.)						
Star Suction Washer Company. (See Chase, Lee L., assignor.)						
Starace, Frank, New York, N. Y. Window.....	574,283	Dec. 29	4011	952	77	2099
Starbuck, Robert B., Mattoon, Ill. Curtain-pole fixture.....	568,048	Sept. 22	2300	558	76	1751
Stark, Ernst P., Markneukirchen, Germany. Harp.....	570,826	Nov. 3	736	168	77	775
Stark, Gustav, assignor to M. Stark, New York, N. Y. Tobacco-pipe.....	571,805	Nov. 24	2438	581	77	1154
Stark, Marianna. (See Stark, Gustav, assignor.)						
Stark, Paul, Markneukirchen, Germany. Motor.....	573,366	Dec. 15	2266	541	77	1744
Starke, Conrad, Milwaukee, Wis. Steam-boiler.....	552,648	Jan. 7	262	70	74	51
Starkey, Sydney, East Liverpool, Ohio. Filter.....	566,631	Aug. 25	3013	736	76	1238
Starkey, Warren L., Paterson, N. J. Adjustable school desk and seat.....	556,565	Mar. 17	1972	461	74	1531
Starks, Nils O., Madison, Wis. Corn-planter.....	555,713	Mar. 3	386	89, 90	74	1199
Starkweather, James W. (See Holloway and Starkweather.)						
Starling, Stewart, <i>et al.</i> (See Daniel, John W., assignor.)						
Starr, Calvin R., Columbus, Ohio. Trunk.....	568,927	Oct. 6	355	82	77	68
Starr, John N., Snohomish, Wash. Automatic clutch-pulley.....	565,241	Aug. 4	570	134	76	720
Starrett, Laro S. (See Fay, Charles P., assignor.)						
Starrett, Laro S., Athol, Mass. Speed-measure.....	557,446	Mar. 31	3501	837	74	1857
Starrett, Laro S., and C. P. Fay, Athol, Mass., assignors to said Starrett. Surface-gage.....	556,703	Mar. 17	2178	509	74	1569
Starring, Ford. (See Mann, Edgar F., assignor.)						
Starritt, Joseph W., Richmond, Va. Rotary brush or cleaner.....	572,459	Dec. 1	658	155	77	1404
Startzel						

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Steber, Bernard T., Utica, N. Y. Match-machine.....	559,759	May 5	708	168	75	815
Stebinger, Eugene. (See Phillips and Stebinger.)						
Stecher Lithographic Company. (See Corkhill, Henry R., Jr., assignor.)						
Steck, Ernst F. (See Robinson and Steck.)						
Steck, Ernst F., Chicago, Ill. Chemical fire-extinguisher.....	552,880	Jan. 7	721	175 176	74	135
Steck, Ernst F., Chicago, Ill., assignor to Fire Extinguisher Manufacturing Company, Chi- cago, Ill., and New York, N. Y. Automatic sprinkler for fire-extinguishers.....	571,581	Nov. 17	2040	485 486	77	1059
Steck, Ernst F., Chicago, Ill., assignor to Fire Extinguisher Manufacturing Company, Chi- cago, Ill., and New York, N. Y. Chemical fire-extinguisher.....	571,582	Nov. 17	2042	486	77	1059
Stedman, Malvern V. (See Via and Stedman.)						
Steck, Herman, Winona, Minn. Wagon.....	558,003	Apr. 7	876	221	75	164
Steedman, George F. (See Steedman, James H. and G. F.)						
Steedman, James H. and G. F., St. Louis, Mo. Swage for upsetting teeth of mill-saws....	568,004	Sept. 22	2217	535	76	1736
Steel Cable Engineering Company. (See Berger, Ambrose J. B., assignor.)						
Steel, Canby, Philadelphia, Pa., assignor to George P. Steel Iron Company, Camden, N. J. Sectional water-heater.....	569,360	Oct. 13	1113	265	77	229
Steel, Harry L., and R. Goldsberry, Dayton, Ind. Marker for planters.....	555,538	Mar. 3	91	20	74	1147
Steel Motor Company. (See Harris, Samuel, assignor.)						
Steel Motor Company. (See Valley, Gustaf, assignor.)						
Steele, Elbert O., New York, N. Y. Supporter or holder for shades or globes.....	561,174	June 2	184	46	75	1402
Steele, Frances B., assignor to W. H. Miller, Brooklyn, N. Y. Bicycle-support.....	562,861	June 30	3161	766	75	2042
Steele, James S., Pittsburg, Pa. Feed-water regulator and low-water alarm.....	570,066	Oct. 27	2368	563	77	486
Steele, James W., Chicago, Ill. Magazine-pencil.....	561,734	June 9	1206	286	75	1624
Steele, John C., Vaughan, assignor of one-half to A. H. Dixon, Toronto, Canada. Road- planer.....	573,243	Dec. 15	2034	487	77	1702
Steele, Ruben F. (See Pratt and Ripley, assignors.)						
Steeles, William B., New Britain, Conn. Cutlery-handle.....	570,346	Oct. 27	2911	690	77	588
Steen, Frederick N. (See Hulse, Bray, and Steen.)						
Steere, Frederick E., Lynchburg, Va. Ice cracking and shaving machine.....	569,250	Oct. 13	925	221	77	192
Steffens, George W., Boston, Mass. Bottle-stopper.....	561,356	June 2	520	131	75	1470
Steffens, George W., Boston, Mass. Non-refillable bottle.....	565,242	Aug. 4	573	134	76	721
Steffens, James P., assignor of one-half to F. Haas, Chicago, Ill. Speed-gear for bicycles..	571,890	Nov. 24	2595	616	77	1182
Steffenson, Jacob, assignor of one-half to J. Fredricksen, North Cape, Wis. Manual motor	571,545	Nov. 17	1983	472	77	1049
Steffin, James. (See Conner, Daniel E., assignor.)						
Stege, Charles E. von. (See Risley, Caleb M., assignor.)						
Stehle, William H., et al. (See Richman, Wilbert, assignor.)						
Steiert, Albert, Philadelphia, Pa. Car-fender.....	555,292	Feb. 25	2658	622	74	1050
Steiger, Andrew W., Bridgeport, Conn., assignor to Jackson Typewriter Company, Boston, Mass. Type-writing machine.....	557,909	Apr. 7	675	161	75	128
Steiger, Andrew W., Bridgeport, Conn., assignor to Jackson Typewriter Company, Boston, Mass. Carriage-shift for type-writers.....	557,910	Apr. 7	677	161 162	75	128
Steiger, Andrew W., Bridgeport, Conn., assignor to Jackson Typewriter Company, Boston, Mass. Letter-spacing mechanism for type-writers.....	557,911	Apr. 7	679	162	75	129
Steiger, Andrew W., Bridgeport, Conn., assignor to Jackson Typewriter Company, Boston, Mass. Type-writer carriage.....	557,912	Apr. 7	681	162 163	75	129
Steiger, Andrew W., Bridgeport, Conn., assignor to Jackson Typewriter Company, Boston, Mass. Type-writing machine.....	557,913	Apr. 7	683	163 164	75	130
Steiger, Otto, Munich, Germany. Calculating-machine.....	558,913	Apr. 21	2449	597 598 599	75	494
Stein & Boericke. (See Boericke, Rudolph, assignor.)						
Stein, David J., New York, N. Y. Cloth sponging and refinishing apparatus.....	567,111	Sept. 1	669	156	76	1409
Stein, Gustav W. A., Wetzlar, Germany. Hydraulic cement.....	562,982	June 30	3393		75	2092
Stein, Theobald, assignor of one-fourth to L. Goos, Philadelphia, Pa. Car-fender.....	556,381	Mar. 17	1640	383	74	1468
Steinbach, William E., assignor of one-half to G. P. Keating, Philadelphia, Pa. Tire for vehicle-wheels.....	560,946	May 26	2954	678	75	1313
Steinbart, Alfred. (See Uehling and Steinbart.)						
Steinberger, Julius, San Francisco, Cal. Fastening-button for gloves.....	573,550	Dec. 22	2621	622	77	1827
Steinbrick, Albert E. (See Bair and Steinbrick.)						
Steiner, Charles, Elmira, N. Y. Bearing-rib for compression members for building pur- poses.....	567,202	Sept. 8	818	194	76	1448
Steiner, Eduard R., Hamburg, Germany. Apparatus for turning leaves of music-books....	568,049	Sept. 22	2302	558 559	76	1751
Steiner, Gottlieb A., Allegheny, and S. S. Babbitt, assignors to Shoenberger Steel Company, Pittsburg, Pa. Horseshoe-calk-forming machine.....	552,592	Jan. 7	152	42, 43	74	30
Steinert, Morris, New Haven, Conn. Piano-action.....	566,808	Sept. 1	119	29	76	1304
Steinhauer, August and H., Cleveland, Ohio. Stop and waste cock.....	574,079	Dec. 29	3590	858	77	2024
Steinhauer, Henry. (See Steinhauer, August and H.)						
Steinhäuser, Hermann. (See Müller, Wilhelm, assignor.)						
Steinhoff, Henry C., West Hoboken, N. J. Hot-air furnace.....	564,804	July 28	2738	651	76	551
Steinkoenig, Fred, Sioux City, Iowa. Burglar-alarm.....	570,616	Nov. 3	339	84	77	701
Steinkoenig, Frederick, Cincinnati, Ohio. Rotary steam-engine.....	563,814	July 14	985	234	76	200
Steinmann, Alfred, Elberfeld, Germany. Garment-hanger.....	566,034	Aug. 18	1991	482	76	1029
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Electric meter.....	557,164	Mar. 31	2989	714	74	1764
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Inductor-dynamo.....	559,419	May 5	133	28	75	707
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Alternating-current system of distribution.....	559,913	May 12	1041	231	75	892
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. System of electrical distribution.....	563,426	July 7	326	73, 74	76	64
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Compound-wound multiphase generator.....	563,427	July 7	328	74	76	64
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Constant-potential alternating generator.....	568,464	Sept. 29	3027	727	76	1902
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Inductor-dynamo. (Reissue).....	11,576	Nov. 24	3021	707	77	1260
Steinmetz, Charles P., Lynn, Mass., assignor to General Electric Company, of New York. System of electrical distribution.....	561,735	June 9	1207	286	75	1624
Steinmetz, Charles P., and E. J. Berg, Schenectady, N. Y., assignors to General Electric Company, of New York. Regulating alternating-current motors.....	558,119	Apr. 14	1092	267	75	224
Steinmetz, Jacob L., Lancaster, Pa. Rein attachment.....	564,295	July 21	1863	436	76	375
Steinmetz, Joseph A., Philadelphia, Pa. Chain-link.....	567,323	Sept. 8	1058	252	76	1490

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Steinmetz, T. M., <i>et al.</i> (See Reynolds, Dexter, assignor.)						
Stelling, Reinhard. (See Neuens, Michael W., assignor.)						
Stenberg, Lewis O. (See Freeman, Alson W., assignor.)						
Stendahl, Anders, Ala, Sweden. Apparatus for piling or stacking lumber.	563,626	July 7	656	153	76	123
Stendebach, Carl F. P., Leipsic, Germany. Electric railway.	558,322	Apr. 14	1431	352	75	288
Stenotype Company. (See Allen, Charles E., assignor.)						
Stentiford, Albert D., Palatka, Fla. Draw-bar attachment.	559,228	Apr. 28	3072	741	75	628
Stenz, Henry, assignor of one-half to J. J. Weyer, Faribault, Minn. Electric-light shade.	559,149	Apr. 28	2913	703	75	598
Stephan, William, Fort Wayne, Ind. Car-bolster.	566,546	Aug. 25	2900	707	76	1216
Stephen, Andrew, Rushville, Nebr. Manufacture of brooms.	553,365	Jan. 21	1593	390	74	326
Stephens, Albert F., and A. T. Connell, St. Joseph, Mo. Individual coffee or tea service utensil.	569,678	Oct. 20	1682	398	77	349
Stephens, Charles M., Detroit, Mich. Packing-case for aromatic substances.	555,027	Feb. 18	2170	517	74	941
Stephens, Dexter B., Youngstown, Ohio. Puzzle.	555,539	Mar. 3	93	20	74	1147
Stephens, Harry A., Missoula, Mont. Ball-bearing.	572,385	Dec. 1	547	129	77	1382
Stephens, James, Newark, N. J. Harness-saddle.	567,203	Sept. 8	819	194	76	1449
Stephens, James, and G. De Marce, Canisteo, N. Y. Extension-table.	570,572	Nov. 3	260	65	77	686
Stephens, James E., Ochlochnee, Ga. Rotary cabinet.	553,081	Jan. 14	1081	264	74	217
Stephens, James S., Chicago, Ill. Steam purifier and separator.	552,593	Jan. 7	153	43	74	31
Stephens, John H., Peterborough, Canada. Earth-digging machine.	567,622	Sept. 15	1552	374	76	1596
Stephens, John H., Vernon, Tex. Weighing-scale.	573,367	Dec. 15	2267	541	77	1745
Stephens, Joseph J., Clinton, Mo. Burial-casket box.	554,741	Feb. 18	1657	391	74	846
Stephens, Lawrence, Macksburg, Ohio. Device for flowing wells.	554,548	Feb. 11	1318	309	74	766
Stephens, Mordecai H., Dayton, Ohio. Tree-box.	572,133	Dec. 1	72	16	77	1292
Stephens, William, Franklin, Tex. Plow.	573,368	Dec. 15	2268	541	77	1745
Stephenson, Albert E., Chicago, Ill. Electric battery.	573,493	Dec. 22	2527	599	77	1810
Stephenson, Charles H., Lynn, Mass. Adjustable seat.	561,290	June 2	402	100	75	1448
Stephenson, Edwin N., Boston, Mass. Machine for stuffing mattresses.	572,914	Dec. 8	1430	345 346 347	77	1573
Stephenson, Franklin C., Green Meadows, Cal. Milk-aerator.	553,437	Jan. 21	1707	407	74	347
Stephenson, Richard. (See Nicholas and Stephenson.)						
Stephenson, Robert S., Allegheny, assignor of one-half to Baldwin & Graham, Pittsburg, Pa. Gas-range.	560,330	May 19	1817	413	75	1086
Stephenson, Walter V., Fort Dodge, Iowa. Adjustable step-ladder.	559,630	May 5	478	110 111	75	774
Stephenson, William J., Edna, Kans. Wagon-brake.	568,633	Sept. 29	3357	804 805	76	1962
Sterling, Charles B., New York, N. Y. Electric switch.	572,319	Dec. 1	417	99	77	1358
Sterling, Charles B., assignor to Dewey Electric Signal Company, New York, N. Y. Electric bell.	552,933	Jan. 14	837	203	74	171
Sterling, Edward, Fort Wayne, Ind. Check-holder.	556,871	Mar. 24	2488	587	74	1645
Sterling Supply Company. (See Hiscox, Gardner D., assignor.)						
Sterling, William H., <i>et al.</i> (See Hoyt, Frederick J., assignor.)						
Stern, Edward. (See Chamberlain, Orange M., assignor.)						
Stern, Isidor, <i>et al.</i> (See Bush, William H., assignor.)						
Stern, Isidor, <i>et al.</i> (See Cooper, Herbert, assignor.)						
Stern Manufacturing Company. (See Stern, Philip K., assignor.)						
Stern, Max, and G. Rothglessner, Dusseldorf, Germany. Pneumatic tire.	560,376	May 19	1896	432	75	1101
Stern, Philip K., assignor of one-half to H. W. Kirchner, St. Louis, Mo. System of electrical transportation.	559,872	May 12	960	214	75	877
Stern, Philip K., assignor of one-half to H. W. Kirchner, St. Louis, Mo. Electrical transportation system.	564,262	July 21	1806	423 424	76	366
Stern, Philip K., St. Louis, Mo., assignor to Stern Manufacturing Company, of Missouri. Roll-holding camera.	566,100	Aug. 18	2103	513 514	76	1049
Stern, Philip K., assignor to Stern Manufacturing Company, St. Louis, Mo. Camera.	571,806	Nov. 24	2439	582	77	1154
Stern, Sigmund, <i>et al.</i> (See Prah, Charles, assignor.)						
Stern, Wilhelm, Anvers, Belgium. Bucket.	560,659	May 26	2441	558 559	75	1214
Sternberg, Berthold. (See Huston, William C., assignor.)						
Sternberg, Lambert, Mitchellville, Iowa. Potato-cutter.	573,551	Dec. 22	2622	622	77	1828
Sternberg, Lothar, Jersey City, N. J., assignor to American Sugar Refining Company, New York, N. Y. Obtaining ammonia from waste sugar lyes.	557,166	Mar. 31	2992		74	1764
Sternberger, Herman S., Piqua, Ohio. Letter-file.	557,623	Apr. 7	163	42	75	32
Sternbergh, James H., Reading, Pa. Machine for manufacturing nuts.	559,500	May 5	261	61, 62	75	732
Sternkopf, Guido M., Eibenstock, Germany. Collapsible vapor-bath.	558,857	Apr. 21	2344	570 571	75	474
Sterns, Julius C., Buffalo, N. Y. Automatic pump-regulator.	570,968	Nov. 10	989	230	77	851
Sterrett, William H., <i>et al.</i> (See Lindley, Zachary M., assignor.)						
Sterry, Thomas N., and J. J. Murphy, Norwich, Conn.; said Murphy assignor to said Sterry. Bottle.	557,165	Mar. 31	2990	714	74	1764
Sterzing, Fred. (See Arnold, Lillard, and Sterzing.)						
Sterzing, Fred, Austin, Tex. Pinless clothes-line.	561,142	June 2	115	31	75	1389
Stetler, Jonas. (See Baird, John P., assignor.)						
Stetson, Clarence W. (See Canfield, Felix P., assignor.)						
Stevaley, Andrew, Newport, Ark. Attachment for sawing-machines.	564,118	July 14	1562	367	76	307
Stevens, Alfred L., assignor of three-fourths to C. P. Roush, Jr., and W. E. Beeghly, Dayton, Ohio. Diaper.	554,203	Feb. 4	728	165	74	638
Stevens, Arthur D., Jacksonville, Fla. Dredging apparatus.	558,118	Apr. 14	1089	267	75	223
Stevens, Benjamin F., assignor of one-half to J. Jolly, Marshfield, Mo. Double rotary top table.	556,566	Mar. 17	1974	461	74	1531
Stevens, Charles, assignor to Universal Printed Address Company, Chicago, Ill. Printing-press.	563,627	July 7	657	153 154	76	123
Stevens, Edgar, Lawrence, Mass. Web-selvaige guide.	568,884	Oct. 6	291	67	77	56
Stevens, Emanuel E. (See Mathewson, Jerry B., assignor.)						
Stevens, F. W. (See Shull, John H., assignor.)						
Stevens, F. W., <i>et al.</i> (See Midgley, Alexander, assignor.)						
Stevens, Frank B., and P. E. Hoffman, Whitesborough, N. Y. Saw-table.	565,940	Aug. 18	1824	443	76	995
Stevens, Frank C., and J. Donovan, Lowell, Mass. Railway block-signal.	558,858	Apr. 21	2345	571	75	474
Stevens, Frank N., Seneca Falls, N. Y. Air-pump.	556,704	Mar. 17	2179	509	74	1570
Stevens, Frank W., Newton, Mass. Window.	566,493	Aug. 25	2806	683 684	76	1198
Stevens, George A., Ringwood, Ill. Corn-husking attachment for feed-cutters.	561,450	June 2	695	171 172	75	1501

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Stevens, George D., assignor of one-half to C. B. Elliott, Metcalf, Ill. Pipe-wrench.....	562,101	June 16	1851	449	75	1762
Stevens, George H., Boston, Mass. Shank-stiffener.....	566,240	Aug. 18	2328	570	76	1093
Stevens, George W. (See Kirkpatrick, May, and Stevens.)						
Stevens, George W., Elyria, Ohio. Brake-shoe.....	568,809	Oct. 6	163	39	77	33
Stevens, Henry E., Lynn, assignor to Boston Lasting Machine Company, Boston, Mass. Tack-driving machine.....	561,833	June 9	1381	331	75	1655
Stevens, John C., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Machine for forming tubes, hollow articles, &c.....	533,573	Jan. 28	1954	{ 461 462 }	{ 74 74 }	{ 410 410 }
Stevens, John H., Jr., Cambridge, Mass. Leg for bath-tubs, &c.....	553,969	Feb. 4	305	68	74	560
Stevens, John H., assignor to Celluloid Company, Newark, N. J. Pyroxylin compound.....	552,934	Jan. 14	840	.....	74	171
Stevens, John H., assignor to Celluloid Company, Newark, N. J. Pyroxylin compound.....	552,935	Jan. 14	841	.....	74	171
Stevens, John H., assignor to Celluloid Company, Newark, N. J. Pyroxylin compound.....	553,270	Jan. 21	1423	.....	74	295
Stevens, John H., assignor to Celluloid Company, Newark, N. J. Compound of pyroxylin.....	564,343	July 21	1943	.....	76	889
Stevens, John H., assignor to Celluloid Company, Newark, N. J. Pyroxylin compound.....	566,349	Aug. 25	2518	.....	76	1144
Stevens, John H., Newark, N. J., assignor to Celluloid Manufacturing Company, of New York. Facitious lithographic stone.....	556,380	Mar. 17	1637	.....	74	1468
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Compound of pyroxylin.....	559,823	May 12	855	.....	75	857
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Compound of pyroxylin.....	559,824	May 12	857	.....	75	858
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound.....	561,624	June 9	1006	.....	75	1585
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound.....	568,105	Sept. 22	2423	.....	76	1773
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound.....	568,106	Sept. 22	2424	.....	76	1773
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound.....	572,134	Dec. 1	74	.....	77	1292
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound.....	572,135	Dec. 1	76	.....	77	1293
Stevens, John H., Newark, and F. C. Axtell, East Orange, N. J., assignors to Celluloid Company, New York, N. Y. Pyroxylin compound.....	568,104	Sept. 22	2421	.....	76	1773
Stevens, John H., Newark, N. J., and M. C. Lefferts, assignors to Celluloid Company, New York, N. Y. Apparatus for producing pyroxylin sheets.....	573,928	Dec. 29	3306	790	77	1972
Stevens, John W., New York, N. Y. Piano attachment.....	559,227	Apr. 28	3071	741	75	628
Stevens, Josiah P., Atlanta, Ga. Machine for inking printing-plates.....	573,552	Dec. 22	2623	{ 623 624 }	{ 77 77 }	{ 1828 1828 }
Stevens, Justus M. (See Whitney, George T., assignor.)						
Stevens, Le Roy W., Auburn, N. Y. Grain-separating machine.....	552,674	Jan. 7	304	82	74	59
Stevens, Le Roy W., and L. D. Swart, assignors to A. W. Stevens & Son, Auburn, N. Y. Corn-husking machine.....	559,545	May 5	339	82	75	749
Stevens, Levi, Trenton, N. J. Gas apparatus.....	563,891	July 14	1145	{ 268 269 }	{ 76 76 }	{ 230 230 }
Stevens, Levi, Trenton, N. J. Non-oxidizable lining for superheaters.....	569,251	Oct. 13	927	221	77	192
Stevens, Levi, Trenton, N. J. Process of and apparatus for making gas.....	570,516	Nov. 3	141	35	77	664
Stevens, Levi and Levi, Jr., Trenton, N. J. Gas-generator.....	563,892	July 14	1148	269	76	230
Stevens, Maria A., Waseca, Minn. Composition of matter for coloring fabrics.....	562,045	June 16	1750	.....	75	1745
Stevens, Paul R., Portland, Me. Felly-plate.....	565,809	Aug. 11	1592	382	76	927
Stevens, Paul W., Washington, D. C., assignor to Fenton Metallic Manufacturing Company, Jamestown, N. Y. Handle-bar for bicycles.....	564,848	July 28	2809	{ 669 670 }	{ 76 76 }	{ 564 564 }
Stevens, Richard, Braddock, Pa. Furnace-valve.....	570,272	Oct. 27	2745	653	77	558
Stevens, Russell, and W. H. Schroeder, Arago, Oreg. Compound for dressing leather.....	555,537	Mar. 3	90	.....	74	1146
Stevens, William E., assignor to Stanley Works, New Britain, Conn. Blind-hinge.....	553,970	Feb. 4	305	68	74	561
Stevenson, Albert H. (See Stevenson, Hugh and A. H.)						
Stevenson, Augustus, Kittery, Me. Oar-lock.....	552,673	Jan. 7	301	81	74	58
Stevenson, Benjamin E., Redding, Cal. Wagon-jack.....	557,167	Mar. 31	2995	714	74	1764
Stevenson, Daniel W., Brockton, assignor of one-half to E. L. Sprague, Boston, Mass. Sewing-machine.....	570,969	Nov. 10	990	230	77	851
Stevenson, David J., Bakersfield, assignor of one-half to H. A. Hellweg, Santa Rosa, Cal. Car-coupling.....	558,620	Apr. 21	1945	472	75	400
Stevenson, George C., Carlos City, Ind. Steering device for traction-engines.....	567,696	Sept. 15	1676	403	76	1621
Stevenson, George E., et al. (See Walker, Joseph, assignor.)						
Stevenson, Hugh and A. H., Manchester, England. Fancy box.....	571,206	Nov. 10	1401	328	77	927
Stevenson, J. G., et al. (See Dean, John K., assignor.)						
Stevenson, John, assignor to J. A. Sutcliffe, Blackburn, and G. Paley, Preston, England. Box for blacking.....	555,410	Feb. 25	2855	673	74	1087
Stevenson, John F., Lamolille, Ill. Car.....	552,701	Jan. 7	352	92, 93	74	69
Stevenson, John H., assignor to Ann Arbor Manufacturing Company, Ann Arbor, Mich. Pole-socket.....	572,778	Dec. 8	1921	296	77	1529
Stevenson, Robert F., Silvertown, Tex. Body-armor.....	570,667	Oct. 27	2369	563	77	486
Stevenson, William, Whitehall, N. Y. Music holder and turner.....	558,225	Apr. 14	1272	311	75	257
Stevenson, William, Philadelphia, Pa. Weather-board gage and support.....	572,582	Dec. 8	868	209	77	1463
Stever, George, Fairfield, Iowa. Rail-joint.....	556,781	Mar. 24	2338	551	74	1616
Steward, John A., Clarendon, Vt. Can-seaming mechanism.....	568,885	Oct. 6	293	67	77	56
Steward, John A., Clarendon, Vt. Seaming sheet-metal vessels.....	570,147	Oct. 27	2511	{ 595 596 }	{ 77 77 }	{ 514 514 }
Steward, John F. (See Ellis and Steward.)						
Steward, John F., Chicago, Ill. Mower.....	554,010	Feb. 4	374	82, 83	74	574
Steward, John F., Chicago, Ill. Butt-adjuster for grain-binders.....	557,447	Mar. 31	3503	837	74	1857
Steward, John F., Chicago, Ill. Multiple tongs.....	561,831	June 9	1379	331	75	1634
Steward, John F., Chicago, Ill. Side-delivery hay-rake.....	562,432	June 23	2395	582	75	1881
Steward, John F., Chicago, Ill. Mowing-machine.....	563,815	July 14	987	{ 234 235 }	{ 76 76 }	{ 201 201 }
Steward, John F., Chicago, Ill. Harvester.....	564,724	July 28	2603	{ 620 621 }	{ 76 76 }	{ 528 528 }
Steward, John F., Chicago, Ill. Sheaf-carrier for self-binding harvesters.....	573,244	Dec. 15	2035	488	77	1703
Steward, John F., Plano, Ill. Harvesting-machine.....	554,318	Feb. 11	932	214	74	692
Stewart, Allan, Govan, Scotland. Railway fog-signaling apparatus.....	561,357	June 2	522	131	75	1470
Stewart, Benjamin F., Plano, Ill. Harvester-reel.....	554,382	Feb. 11	1036	{ 240 241 }	{ 74 74 }	{ 712 712 }
Stewart, Benjamin F., Canton, Ohio. Harvester-reel.....	565,184	Aug. 4	440	106	76	698
Stewart, Benjamin F., West Pullman, Ill. Grain-binder.....	568,810	Oct. 6	164	39, 40	77	33
Stewart, Benjamin F., West Pullman, Ill. Bundle-carrier for harvesters.....	571,807	Nov. 24	2441	582	77	1155
Stewart, Benjamin F., Chicago, Ill. Trip mechanism for grain-binders.....	573,048	Dec. 15	1694	405	77	1640

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Stewart, Benjamin F., Chicago, Ill. Tying mechanism for grain-binders	573,307	Dec. 15	2173	518	77	1727
Stewart, Carl, <i>et al.</i> (See Kennedy, Richard G., assignor.)						
Stewart, Charles E., Woodstock, Canada. Amount-finding table	556,719	Mar. 17	2205	516	74	1575
Stewart, Charles E., Camden, N. J. Furrow opening or closing mechanism	558,578	Apr. 21	1876	{ 455 456 }	{ 75	387
Stewart, Charles E., Boston, Mass., assignor to Boston Lasting Machine Company, of Maine. Tack-delivering nozzle	561,832	June 9	1380	331	75	1654
Stewart, David C., Warren, Ohio. Railway-signal	560,071	May 12	1336	{ 299 300 }	{ 75	948
Stewart Hartshorn Company. (See Hartshorn, Edmund F., assignor.)						
Stewart Hartshorn Company. (See Temple, Ansel F., assignor.)						
Stewart, Hyland P. (See Harbaugh and Rudiger, assignors.)						
Stewart, James, Grand Rapids, Mich. Boot-treating machine	566,241	Aug. 18	2329	570	76	1093
Stewart, James B., Chico, Cal. Fruit or vegetable slicer	553,271	Jan. 21	1424	345	74	296
Stewart, James H. and W. C., Newark, N. J. Detachable clasp for wearing-apparel	561,736	June 9	1210	287	75	1624
Stewart, James O., Dirksen, Iowa. Husking-thimble	560,377	May 19	1898	432	75	1101
Stewart, John. (See Weiss, George W., assignor.)						
Stewart, John, Chicago, Ill. Street-lamp	565,044	Aug. 4	142	33	76	644
Stewart, John A. (See Pickering, Charles H., assignor.)						
Stewart, John A., Houston, assignor of two-thirds to J. C. Duke, Dallas, Tex., and C. W. Mansur, St. Louis, Mo. Disk plow	557,624	Apr. 7	164	43	75	32
Stewart, John H., Williamsport, assignor of one-half to J. Vashinder, Dubois, Pa. Washing machine	569,141	Oct. 6	728	171	77	138
Stewart, Morse, Jr., Detroit, Mich. Apparatus for feeding and exercising chickens	564,849	July 28	2811	670	76	565
Stewart, Perry H. (See Shelton and Stewart.)						
Stewart, Richard C., Jr., and W. A., Covington, Ky. Metallic fence	553,629	Jan. 28	2042	483	74	426
Stewart, Richard F., Mount Pleasant, N. Y. Self-propelling vehicle	554,319	Feb. 11	934	{ 214 215 }	{ 74	693
Stewart, Samuel A., Waltham, Mass. Electric switch	570,068	Oct. 27	2370	563	77	487
Stewart, Theodore L., Brooklyn, N. Y. Metal-working tool	560,239	May 19	1652	376	75	1058
Stewart, Wallace A. (See Stewart, Richard C., Jr., and W. A.)						
Stewart, Walter H., Franklin, N. H. Automatic yarn-changing attachment for knitting-machines	557,168	Mar. 31	2995	715	74	1765
Stewart, Walter H., Franklin, N. H. Machine for grooving knitting-machine needles	557,169	Mar. 31	2999	715	74	1765
Stewart, William D., Brooklyn, N. Y. Manufacture of crockery washtubs	560,049	May 12	1286	{ 289 290 }	{ 75	939
Stewart, William H., Kansas City, Kans., assignor to B. H. Barr, Kansas City, Mo. Scale-beam	565,519	Aug. 11	1063	255	76	832
Stewart, William J., Chicago, Ill. Sewing-machine feed mechanism	562,160	June 16	1947	472	75	1781
Stewart, William J., Chicago, Ill. Feed mechanism for sewing-machines	562,161	June 16	1948	{ 472 473 }	{ 75	1781
Stewart, William S., and I. F. Gatewood, Palmersville, Tenn. Flood-gate	568,634	Sept. 29	3359	805	76	1963
Stewart, William W. (See Swift and Stewart.)						
Stewart, Wilson C. (See Stewart, James H. and W. C.)						
Steyer, Robert, assignor to E. Moritz & Co., Dohna, Germany. Leather-working machine	552,791	Jan. 7	539	132	74	101
Stich, John, New York, N. Y. Register for billiard-tables	556,071	Mar. 10	1044	249	74	1342
Sticker, Francis. (See Brownley and Sticker.)						
Stickie, Samuel C., assignor of two-fifths to Sproull, Harmer & Sproull, New York, N. Y. Automatic lighting or extinguishing apparatus	553,198	Jan. 14	1294	313	74	257
Stickie, Samuel C., assignor of two-fifths to Sproull, Harmer & Sproull, New York, N. Y. Electric signal apparatus for elevators	564,344	July 21	1944	{ 458 459 }	{ 76	389
Stickney, Burnham C., Brooklyn, N. Y. Type-writing machine	557,711	Apr. 7	325	78, 79	75	62
Stickney, Caleb, assignor of one-half to G. E. Stickney, Newburyport, Mass. Music-stand	564,397	July 21	2038	478	76	407
Stickney, George E. (See Stickney, Caleb, assignor.)						
Stiebel, Henry G., Jr., assignor of one-half to H. J. Nathan, St. Louis, Mo. Water-sterilizing apparatus	564,657	July 28	2481	586	76	506
Stienbarger, Sheldon A., Augusta, Ill. Dental forceps	554,844	Feb. 18	1840	433	74	882
Stiens, Peter, London, England. Incandescent mantle	569,892	Oct. 20	2060		77	415
Stier, Hermann, assignor of one-half to A. Schwill & Co., Cincinnati, Ohio. Malting apparatus	572,665	Dec. 8	1012	245	77	1491
Stieringer, Luther, New York, N. Y., assignor to G. Maitland, Detroit, Mich. Combined gas and electric-light fixture (Reissue)	11,544	May 26	3161	731	75	1352
Stikeman, George, Brooklyn, N. Y. Library-shelving	571,249	Nov. 10	1477	346	77	941
Stiles, George A., Brookline, assignor to Judson L. Thomson Manufacturing Company, Waltham, Mass. Lacing-stud-setting machine	565,810	Aug. 11	1571	{ 382 383 }	{ 76	928
Stiles, Henry A., <i>et al.</i> (See Boyle, James E., assignor.)						
Stiles, Norman C., Middletown, Conn. Fountain-pen	566,350	Aug. 25	2520	616	76	1145
Stiles, Wallace C., Auburn, Mass. Machine for truing flat wire or metal bars	556,724	Mar. 17	2224	{ 518 519 }	{ 74	1581
Still, Henry, Norfolk, Va. Feed-box	556,033	Mar. 10	965	231	74	1328
Still, Peter, <i>et al.</i> (See Entwistle, William G., assignor.)						
Still, William J., assignor to C. Riordan, Toronto, Canada. Storage battery	563,428	July 7	330	74	76	65
Stillaway, Thomas, Binbrook, Canada. Portable sectional fence	562,046	June 16	1751	423	75	1745
Stillman, Henry M., Milwaukee, Wis. Adjustable bracket for ladders	567,755	Sept. 15	1750	427	76	1641
Stillman, Herbert L., Charlestown, R. I. Railway	565,045	Aug. 4	143	33	76	644
Stillman, Oscar B. (See Guiler, James, Jr., assignor.)						
Stillson, Daniel C., Somerville, Mass. Automatic fire-extinguisher	568,886	Oct. 6	294	67	77	56
Stillwell, Lewis B., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Switchboard for electrical distribution systems	565,811	Aug. 11	1573	383	76	928
Stilson, Amos C., Bradford Pa. Axle-bearing	567,697	Sept. 15	1677	{ 403 404 }	{ 76	1621
Stilson, Spencer M., Price, Mich. Snap-hook	565,520	Aug. 11	1064	255	76	833
Stilwell, Arthur E. (See Eastwood, James N., assignor.)						
Stilwell-Bierce & Smith-Vaile Company. (See Gesler, Arthur, assignor.)						
Stilwell-Bierce & Smith-Vaile Company. (See Rice, Alva C., assignor.)						
Stilwell, Charles B., Philadelphia, Pa. Window-blind awning	564,413	July 21	2064	483	76	412
Stilwell, Edwin R., Dayton, Ohio. Self-oiling journal-bearing	559,956	May 12	1111	248	75	904
Stimpson, Edward S. (See Stimpson, Wallace I. and E. S.)						
Stimpson, Edward S., assignor to Dutcher Temple Company, Hopedale, Mass. Loom-shuttle	556,705	Mar. 17	2180	509	74	1570
Stimpson, Edward S. and W. I., assignors to Dutcher Temple Company, Hopedale, Mass. Loom-temple	564,166	July 14	1653	386	76	323
Stimpson, Lorenzo L., assignor of one-half to F. Cunningham, Boston, Mass. Trolley and switch for electric railways	554,350	Feb. 11	986	{ 228 229 }	{ 74	702

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Stimpson, Wallace I. (See Stimpson, Edward S. and W. I.)						
Stimpson, Wallace I., assignor to Dutcher Temple Company, Hopedale, Mass. Loom-temple	573,308	Dec. 15	2175	519	77	1727
Stimpson, Wallace I. and E. S., assignors to Dutcher Temple Company, Hopedale, Mass. Loom-temple	553,216	Jan. 14	1322	321	74	262
Stimson, Charles W., New York, N. Y. Garment-clasp	554,742	Feb. 18	1657	391	74	847
Stimson, Charles W., New York, N. Y. Needle	559,108	Apr. 28	2800	677	75	580
Stimson, Charles W., New York, N. Y. Clasp or buckle	572,915	Dec. 8	1443	347	77	1575
Stimson, William H., New York, N. Y. Safety-pin	557,347	Mar. 31	3334	800	74	1825
Stinchcomb, Alfred A., St. Margarets, Md. Corn-planter	564,658	July 28	2482	586	76	507
Stiner, Christopher C., Girard, Kans. Strainer for pumps	555,831	Mar. 3	568	137	74	1234
Stiner, Samuel, New York, N. Y. Lock	565,702	Aug. 11	1380	336	76	894
Stingley, Rion G., Franklin, Oreg. Gate	562,102	June 18	1852	449 } 450 }	75	1763
Stinson, James C., El Paso, Tex. Music-leaf turner	563,088	June 30	3591	860 }	75	2129
Stirckler, John D., assignor of one-half to E. F. Bumpus, Boston, Mass. Fastener-socket	570,069	Oct. 27	2371	861 }	77	457
Stirling Company. (See Pell, Harry S., assignor.)						
Stirling Company. (See Schlieper, John E., assignor.)						
Stites, George, Philadelphia, Pa. Filter	572,136	Dec. 1	78	17	77	1293
Stites, Samuel T., Rockford, Ill. Collar and cuff starching machine	566,242	Aug. 18	2330	571	76	1093
Stitt, Louise G., Chicago, Ill. Bust-girdle	572,621	Dec. 8	938	228	77	1476
Stitzel, Frank R., Londonville, Ohio. Cleaner for flour-bolts	571,411	Nov. 17	1742	416	77	1006
Stivers, George E. W. (See Stivers, Jerome, assignor.)						
Stivers, Jerome, New Rochelle, assignor to G. E. W. Stivers, New York, N. Y. Fastener for vehicle-doors	558,226	Apr. 14	1273	311	75	258
Stobie, William H., Winslow, and W. H. Cunningham, Waterville, Me. Stuff-regulator for paper-making machines	564,035	July 14	1399	326	76	274
Stobrawa, Max, Dresden, Germany, assignor to Siemens & Halske Electric Company, of America, Chicago, Ill. Contact device for conduit electric railways	566,035	Aug. 18	1992	483	76	1029
Stock, Harry A., Millersburg, Pa. Culinary mill	564,345	July 21	1947	459	76	390
Stockdale, Henry. (See Henderson and Morse, assignors.)						
Stocker, John. (See Kaiser and Stocker.)						
Stockford, Charles E., Sulphur Creek, Cal. Ore-roasting furnace	569,361	Oct. 13	1115	265 }	77	229
Stockham, James H., Des Moines, Iowa. Clamping device	562,862	June 30	3161	766 }	75	2042
Stocking, Lewis G., Limona, Fla. Envelop	574,284	Dec. 29	4012	952 }	77	2099
Stockstrom, Charles A. (See Stockstrom, Louis, assignor.)						
Stockstrom, Charles A., and R. Curran, St. Louis, Mo. Trap for ice-boxes, &c	557,449	Mar. 31	3505	838	74	1857
Stockstrom, Louis, assignor of one-half to C. A. Stockstrom, St. Louis, Mo. Range	556,706	Mar. 17	2181	509	74	1570
Stockstrom, Louis, assignor of one-half to C. A. Stockstrom, St. Louis, Mo. Vapor-burner	569,524	Oct. 13	1388	327	77	278
Stockton, Robert N., Philadelphia, Pa. Dental plugger	570,176	Nov. 10	1355	316	77	919
Stockwell, Emory, assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Time-lock	567,623	Sept. 15	1553	374	76	1596
Stockwell, Emory, assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Combination-lock	567,698	Sept. 15	1679	404 }	76	1621
Stoddard, Ebenezer M. (See Chapman, Kivlin, and Stoddard.)				405 }		
Stoddard, Joseph F., et al. (See Pearson, Thomas T., assignor.)						
Stoddard Manufacturing Company. (See Graham, David F., assignor.)						
Stoddard, Merchant, assignor of one-half to C. H. Scott, Farmington, Iowa. Ore-concentrator	565,812	Aug. 11	1575	384	76	929
Stoddard, Oscar, assignor of one-half to J. H. Walsh, Detroit, Mich. Key	559,467	May 5	205	45	75	721
Stoddard, Samuel G. (See Rhind, Stoddard, and Baldwin.)						
Stoddard, Samuel G., assignor to Bridgeport Brass Company, Bridgeport, Conn. Air-pump	559,957	May 12	1113	248	75	904
Stoddard, William H., Carlinville, Ill. Test-tube holder	558,433	Apr. 14	1635	394	75	327
Stoffregen, William H., Chicago, Ill. Prescription-file	563,517	July 7	477	112	76	91
Stogsdill, Benjamin R., Webb City, Mo. Carpet-stretcher	558,227	Apr. 14	1275	311	75	258
Stokes, Charles S., Brooklyn, N. Y. Umbrella or parasol	571,911	Nov. 24	2644	626	77	1191
Stokes, Ellis, Jr., trustee. (See Jackson, John B., assignor.)						
Stokes, Henry M., Boston, Mass. Sofa-bed	569,679	Oct. 20	1683	399	77	349
Stokes, S. G. W. (See Eckerd, John W., assignor.)						
Stokes, Walter C., New York, N. Y. Wrench	572,035	Nov. 24	2845	669	77	1230
Stoll, Albert A., Louisville, Ky. Ice-cushion	563,429	July 7	331	75	76	65
Stoll, Albert A., Louisville, Ky. Combination bed and bath for invalids	568,811	Oct. 6	169	40	77	34
Stoll, Daniel H., assignor of one-half to M. Newell, Buffalo, N. Y. Pipe-corrugating machine	568,635	Sept. 29	3360	806	76	1963
Stoll, Heinrich, and F. Maercklin, Reutlingen, Germany. Knitting-machine	572,839	Dec. 8	1321	317	77	1549
Stoltz, William H., Dayton, Ohio. Commode	559,109	Apr. 28	2-02	678	75	580
Stolz, Otto G. (See Jerome, William C., assignor.)						
Stolz, Otto G., Chicago, Ill. Sticky fly-paper	552,792	Jan. 7	541	132	74	102
Stolz, William G., and C. G. Eshelman, Reading, Pa. Differential gear for bicycles	557,242	Mar. 31	3154	756	74	1789
Stolzer, Charles, assignor to W. A. Porter, Philadelphia, Pa. Type-case cabinet	565,703	Aug. 11	1382	336	76	894
Stone, Allison R., assignor to Chicago Daily News, Chicago, Ill. Newspaper-box	562,933	June 30	3292	795	75	2070
Stone, Arthur B., Windsor, Conn. Expansion-bit	560,050	May 12	1290	290	75	940
Stone, Charles E., assignor of one-half to B. F. Sargent, Amesbury, Mass. Garment-supporter	568,812	Oct. 6	170	41	77	34
Stone, F. E., et al. (See Walker, Joseph, assignor.)						
Stone, Frank A., et al. (See Billings, George W., assignor.)						
Stone, Frank P. (See McLachlan, John, assignor.)						
Stone, Harvey, Cambridge, Vt. Ironing-table	555,225	Feb. 25	2527	596	74	1025
Stone, James. (See Reece, William H., assignor.)						
Stone, James, Aurora, Ill. Corset	557,713	Apr. 7	333	79	75	64
Stone, John C. (See Andriot and McClanahan, assignors.)						
Stone, John C., Harriette, Mich. Stovepipe-fastener	562,984	June 30	3396	816	75	2093
Stone, John S. (See Slade and Stone.)						
Stone, John S., assignor to American Bell Telephone Company, Boston, Mass. Telephone-circuit	560,761	May 26	2613	601	75	1247
Stone, John S., assignor to American Bell Telephone Company, Boston, Mass. Telephone circuit and apparatus	560,762	May 26	2615	601	75	1248
Stone, John S., assignor to American Bell Telephone Company, Boston, Mass. System of current supply for telephone-circuits	562,435	June 23	2401	583	75	1882
Stone, John S., assignor to American Bell Telephone Company, Boston, Mass. Telephone signaling-circuit	563,692	July 7	767	181	76	144
Stone, John S., Boston, and G. K. Thompson, Malden, assignors to American Bell Telephone Company, Boston, Mass. Telephone speaking-tube system	556,034	Mar. 10	966	232	74	1328

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Stone, Lauriston L., <i>et al.</i> (See Burham, Charles, assignor.)						
Stone, Marcia A., Foster Centre, R. I. Means for repairing punctured sheet-metal articles	564,850	July 28	2812	670	76	565
Stone, Roy, Washington, D. C. Spreading-cart	559,150	Apr. 28	2915	704	75	598
Stone, Roy, Washington, D. C., assignor of one-half to C. E. Ashburner, Brookhill, Va. Wheelbarrow	559,001	Apr. 28	2608	635	75	541
Stone, Samuel J., Providence, R. I. Collar-button and stud	553,944	Feb. 4	261	57	74	553
Stone, Samuel J., and F. E. Farnham, Providence, R. I. Collar-button	556,219	Mar. 10	1314	308	74	1392
Stone, Samuel N., assignor to M. B. Short, P. Nerney, and J. J. Horton, Attleborough, Mass. Spectacles	557,448	Mar. 31	3504	837	74	1857
Stone, Thomas F., Jr., Weston, Mo. Wire-handling implement	567,204	Sept. 8	821	195	76	1449
Stone, Thomas W., Columbus, Ohio. Clothes-wringer	559,760	May 5	710	168	75	816
Stone, William, St. Kilda, C. Ralston, Armadale, J. Gregg, Elsternwick, and W. A. Holmes, Parkville, Victoria. Vapor-lamp	554,039	Feb. 4	432	95, 96	74	584
Stone, William E., <i>et al.</i> (See Rollandet and Gray, assignors.)						
Stone, William G., Knoxville, Ill. Gate	554,800	Feb. 18	1756	413	74	865
Stone, William G., Brooklyn, N. Y., assignor to H. W. Johns Manufacturing Company, Jersey City, N. J. Drying apparatus	554,743	Feb. 18	1659	391 392	74	847
Stonemetz, John H., Brooklyn, assignor, by mesne assignments, to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-press	559,000	Apr. 28	2605	634	75	540
Stoner, Charles H. (See Frick and Stoner.)						
Stoner, Christian F., and J. M. Martin, Lancaster, Pa. Fly-net holder	562,983	June 30	3394	816	75	2092
Stoner, Earl B., Seaside, Oreg. Attachment for angle-cocks	552,793	Jan. 7	543	133	74	102
Stoner, John B., Brooklyn, N. Y. Child's carriage	561,066	May 26	3138	724	75	1348
Stoney, William W., C. E. Crosby, and I. L. Crippen, Indianapolis, Ind. Automatic door-release for dump-cars	564,805	July 28	2739	651	76	551
Stoody, Charley H., Ripley, Ohio. Harness attachment	571,808	Nov. 24	2444	582	77	1155
Stopper, Michael, Cincinnati, Ohio. Fare-register	553,876	Feb. 4	121	24	74	528
Storck, John H., Wetona, Pa. Neck-yoke	571,412	Nov. 17	1744	416	77	1006
Storch, Wilhelm, assignor to C. D. A. Hansen, Copenhagen, Denmark. Ferment for ripening milk, &c	561,291	June 2	404	100	75	1448
Storck, Fritz, Prague, Austria-Hungary, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Producing azo colors on fiber	569,392	Oct. 13	1165	.....	77	238
Storer, Jacob J., and F. Martin, Helena, Mont., assignors to United Mill and Furnace Company, of Montana. Amalgamator	573,834	Dec. 22	3139	748	77	1926
Storer, Norman W., Wilksburg, assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Dynamo-electric machine	562,864	June 30	3164	766	75	2043
Storey Electric Drill and Power Company. (See Storey, Imle E., assignor.)						
Storey, Imle E., Boulder, Colo., assignor to Storey Electric Drill and Power Company, of Colorado. Electric coal-cutter	555,832	Mar. 3	569	137 138	74	1234
Storey, Imle E., Boulder, Colo., assignor to Storey Electric Drill and Power Company, of Colorado. Electric locomotive	562,502	June 23	2506	607	75	1902
Storey, Imle E., Boulder, Colo., assignor to Storey Electric Drill and Power Company, of Colorado. Friction-clutch	563,989	July 14	1322	309	76	261
Storey, Imle E., Hornellsville, N. Y., assignor to Storey Electric Drill and Power Company, of Colorado. Electric motor	557,714	Apr. 7	235	80	75	64
Storey, James E., St. Louis, Mo. Tailor's drafting-plate	552,976	Jan. 14	907	221	74	184
Storey, James W., assignor of one-half to B. Ford, Wesson, Miss. Horse-power	564,119	July 14	1562	367	76	307
Storlie, Ole O., Burlington, Wis. Rowlock	555,747	Mar. 3	444	106	74	1209
Storm, Alfred W., Ramsey, N. J., assignor to himself, W. D. Stratton, Middletown, and A. C. Butts, New York, N. Y. Facsimile telegraphy	555,626	Mar. 3	241	57	74	1174
Storm, Alfred W., assignor of one-half to C. S. Farrington, New York, N. Y. Automatic justifier	571,809	Nov. 24	2445	583	77	1155
Storm, Charles W., Elgin, Ill. Spray-nozzle	562,863	June 30	3163	766	75	2043
Stormer, Peter G., assignor to Johnson Company, Johnstown, Pa. Railway-frog	554,320	Feb. 11	936	215	74	693
Storrew, Edward C., Boston, Mass. Compound pipe	562,205	June 16	2020	487	75	1795
Storrs, Aaron P., Owego, N. Y. Chimney for burners	560,051	May 12	1291	290	75	940
Storrs, Aaron P., Owego, N. Y. Transparent chimney	571,866	Nov. 24	2553	605	77	1175
Storrs, Aaron P., Owego, N. Y. Chimney for light-giving burners	571,867	Nov. 24	2554	606	77	1175
Storrs, Aaron P., Owego, N. Y. Lamp-post cap	571,868	Nov. 24	2555	606	77	1175
Story, Robert K., Brooklyn, N. Y. Bath-tub	557,289	Mar. 31	3234	776	74	1804
Stoskopf, Peter, Chicago, Ill. Combined thill-support and antirattler	558,323	Apr. 14	1433	352	75	289
Stottmeister, Charles, Philadelphia, Pa. Neck-shield	561,737	June 9	1212	287	75	1625
Stotz, Paul, Stuttgart, Germany, and F. W. Schindler-Jenny, Kennelbach, Austria-Hungary. Electric soldering-club	573,245	Dec. 15	2037	488	77	1703
Stouder, Augustus G., <i>et al.</i> (See Slyder, William J., assignor.)						
Stouffer, Oliver J., Logansport, Ind. Roof-truss	571,055	Nov. 10	1134	285 266	77	878
Stough, Leona A., Durango, Colo. Pencil-sharpener	570,617	Nov. 3	340	84	77	701
Stoughton, Alexander F., <i>et al.</i> (See Paquette, Octave, assignor.)						
Stoughton, James C., <i>et al.</i> (See Paquette, Octave, assignor.)						
Stoughton, Peter T., <i>et al.</i> (See Paquette, Octave, assignor.)						
Stout, Amie E., assignor of one-half to F. W. Kammann, Aaron, Ind. Buggy-top attachment	566,351	Aug. 25	2522	617	76	1145
Stout, Cyrus R. (See Cook, Stout, and Morris.)						
Stout, John S., Oxford Junction, Iowa. Draw-bar	568,378	Sept. 29	2886	693	76	1876
Stout, John V., Easton, Pa. Automatic heat-regulating device	560,763	May 26	2617	601 602	75	1248
Stover, Cochran C. (See Dunham, Charles L., assignor.)						
Stover, Edward C., Trenton, N. J. Siphon water-closet	562,047	June 16	1753	424	75	1746
Stover, Edward C., Trenton, N. J. Siphon water-closet	571,026	Nov. 10	1088	254	77	869
Stover, John J., Erwinna, Pa. Shaft-brake	572,649	Dec. 8	985	237	77	1485
Stover Manufacturing Company. (See Held, August S., assignor.)						
Stover, Mark E., <i>et al.</i> (See Stover, Peter N., assignor.)						
Stover, Peter N., assignor of four-ninths to M. E. Stover and F. S. Spencer, Saginaw, Mich. Gearing for bicycles	564,948	July 28	2992	713	76	598
Stover, William B., assignor to Studebaker Brothers Manufacturing Company, South Bend, Ind. Wagon	563,433	June 23	2397	582	75	1882
Stover, William B., assignor to Studebaker Brothers Manufacturing Company, South Bend, Ind. Wagon	562,434	June 23	2399	583	75	1882
Stow, Nelson, Binghamton, N. Y. Flexible shaft	571,869	Nov. 24	2556	606	77	1175
Stow, William H., Frankfort, Mich. Sash-fastener	573,553	Dec. 22	2628	624	77	1829
Stowe, Aaron F., Worcester, Mass. Metal-banding implement	565,704	Aug. 11	1383	337	76	894
Stowe, Benjamin L., Jersey City, N. J. Apparatus for lining hose	553,877	Feb. 4	123	24	74	528
Stowe, John N., Jr., Galveston, Tex. Thill-coupling	570,718	Nov. 3	550	128	77	740

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Stowell, Byron F., assignor to Bundy Manufacturing Company, Binghamton, N. Y. En-graving-machine	570,070	Oct. 27	2372	564	77	487
Stowell, William H., <i>et al.</i> (See Keeler, William P., assignor.)						
Strader, Hannah M. D., Chicago, Ill. Screen for windows or doors	553,793	Jan. 28	2316	550	74	477
Strahan, John T., assignor to Grand Rapids Desk Company, Grand Rapids, Mich. Type-writer desk	556,707	Mar. 17	2182	510	74	1570
Strain, Edwin, Melrose, Mass., assignor of one-half to H. A. Blanchard, New York, N. Y. Making solit needles	568,418	Sept. 29	2952	709	76	1889
Strain, John H., Gentryville, Ind. Bell-ringing mechanism	565,306	Aug. 4	661	159	76	737
Strain, Robert R., assignor of two-thirds to A. T. Dewey and E. S. Barney, San Francisco, Cal. Adjustable hinge and window-lock	563,430	July 7	332	75	76	65
Straight, George S. (See Strait, Luther J. and G. S.)						
Straight, Luther J. and G. S., Humboldt, Iowa. Check-row corn-planter	559,825	May 12	859	191	75	858
Straight, William, Elmira, N. Y. Manufacture of wheels	554,204	Feb. 4	729	166	74	639
Straight, William, Elmira, N. Y. Plow	561,625	June 9	1008	242	75	1585
Strakosch, Edgar, Baltimore, Md. Bicycle-saddle	569,981	Oct. 20	2214	526	77	444
Straley, William, Cleveland, Ohio. Street-indicator	555,226	Feb. 25	2528	598	74	1025
Strang, Lew K., Gloucester, Mass. Dough-kneader	563,431	July 7	333	75	76	66
Strange, Emerson C., Taunton, Mass. Mechanic's tool	563,089	June 30	3594	861	75	2130
Strank, Eugene E., M. Bromeling, and J. L. Bates, Eaton Rapids, Mich. Water heater and reservoir	555,980	Mar. 10	862	204	74	1312
Strasburger, Alvin L., New York, N. Y. Apparatus for manipulating precious stones while being polished	569,252	Oct. 13	928	222	77	193
Strasburger, Frank C. H., Great Falls, Mont. Bottle-labeling machine	559,002	Apr. 28	2608	635	75	541
Stratton, Andrew, Augusta, Wis. Crate	573,718	Dec. 22	2944	696	77	1889
Stratton, Charles H., Buffalo, N. Y. Wheel-fender and step-cover for vehicles	560,331	May 19	1818	413 414	75	1086
Stratton, George M., Bridgeport, Pa., assignor to American Surgical Company, of Pennsylv- ania. Ligature-receptacle	554,040	Feb. 4	435	96	74	584
Stratton, George M., Bridgeport, Pa., assignor to American Surgical Company, of Pennsylv- ania. Ligature-receptacle	554,041	Feb. 4	436	96	74	584
Stratton, Henry H., Johnson City, Tenn. Sewing-machine attachment	565,705	Aug. 11	1383	337	76	894
Stratton, Henry W., Boston, Mass. Toy building-block	570,688	Nov. 3	508	118	77	733
Stratton, Jairus L., and F. Murdock, Kansas City, assignors to Cre-Ozone Company, Read- ing, Kans. Evaporating or vaporizing apparatus	568,928	Oct. 6	356	82	77	68
Stratton, Nathaniel A., New York, N. Y. Ore-roaster	565,813	Aug. 11	1577	384	76	929
Stratton, William D., <i>et al.</i> (See Storm, Alfred W., assignor.)						
Straub, Ambrose W., Philadelphia, Pa. Ball-bearing	554,629	Feb. 11	1479	346	74	795
Straub, Charles A., Rousseville, Pa. Boiler-pump regulator	555,540	Mar. 3	94	21	74	1147
Straub, Eugen. (See Krosenberg and Straub.)						
Straub, George C. and W. J., and F. A. Gestner, Reading, Pa. Automatic car-fender	556,444	Mar. 17	1759	409	74	1492
Straub, William J. (See Straub and Gestner.)						
Stravlo, Christian J., Chanute, Kans. Sample-case	566,484	Aug. 25	2808	684	76	1198
Straw, Henry, Garner, Iowa. Engraver's block	564,543	July 21	2271	532 533	76	448
Straw, Joseph L., Seward, Ill. Guard for horns of beeves	557,170	Mar. 31	3000	715	74	1765
Streabell, William C. (See Dunshee, Carlos E., assignor.)						
Street, Herbert G., New York, N. Y. Bicycle-crate	555,833	Mar. 3	571	138	74	1234
Strecker, Otto C., assignor to J. Scholz, Mentz, Germany. Producing relief-plates for print- ing	567,926	Sept. 15	2049		76	1693
Strecker, William H., and A. D. Moore, New York, N. Y. Pin-and-catch device	569,393	Oct. 13	1166	277	77	238
Street, Arthur W., assignor of one-third to S. C. McKnight, Chicago, Ill. Type-writing machine	561,834	June 9	1382	331 332	75	1655
Street, Charles. (See Georges, Ernest A.)						
Street, Charles F., San Mateo, Cal., and W. Garrett, Briagolong, Victoria. Bee-smoker	559,546	May 5	341	82	75	749
Street, Edward R., <i>et al.</i> (See McCawly, Joel A., assignor.)						
Street, Ernest A. G. (See Girard and Street.)						
Streeter, Herbert A., Chicago, Ill. Building construction	555,981	Mar. 10	863	204	74	1312
Streeter, Nelson R. (See Mosher and Streeter.)						
Stremel, Arthur, <i>et al.</i> (See Henning, Julius, assignor.)						
Stremel, Charles F., <i>et al.</i> (See Henning, Julius, assignor.)						
Stretch, Eleakim S. (See Serge-Kisslow, Paul, assignor.)						
Stretton, William. (See Terry, Samuel L., assignor.)						
Streuber, Louis. (See Read, Thomas G., assignor.)						
Strickler, William H., Roanoke, Va. Compensating bearing for sewing-machines	565,521	Aug. 11	1066	256	76	833
Striegel, Oscar. (See Schnebelin and Striegel.)						
Striker, George H., Buffalo, N. Y. Balance-staff gage	568,501	Sept. 29	3093	745	76	1915
Strite, Samuel M., assignor of one-half to J. P. S. Lawrance, United States Navy. Appa- ratus for manufacturing rolled metal plates, &c.	567,756	Sept. 15	1781	428	76	1641
Strobel, Frederick, Marion, Ohio. Threshing-machine and separator	554,351	Feb. 11	988	229	74	703
Strobel, Simon E., and W. C. Cone, assignors of one-third to N. M. Patchen, De Smet, S. D. Horse-power	559,914	May 12	1042	231 232	75	892
Stroebel, Conrad, Omaha, Nebr. Reversible plow	562,048	June 16	1754	424	75	1746
Stroeter, Henry H., Butte, Mont. Transposing-keyboard	573,227	Dec. 1	239	57	77	1324
Stroh, George. (See Lorenz, John and J., assignors.)						
Strohbach, Max, Magdeburg, Germany. Umbrella or sunshade holder for cycles	566,352	Aug. 25	2523	617	76	1145
Strohm Elevator Safety Device Company. (See Strohm, Samuel D., assignor.)						
Strohm, Samuel D., assignor to Strohm Elevator Safety Device Company, Philadelphia, Pa. Electrically-controlled elevator	570,827	Nov. 3	737	168 169	77	775
Stromberg, Alfred, and A. Carlson, Chicago, Ill. Telephone apparatus	558,859	Apr. 21	2348	572	75	473
Stromberg, Alfred, and A. Carlson, Chicago, Ill. Telephone-switchboard	565,046	Aug. 4	144	34	76	644
Stromberg, Alfred, and A. Carlson, Chicago, Ill. Telephone-transmitter	567,324	Sept. 8	1059	252	76	1490
Stromberg, Charles J. (See Dyer, Isaac T., assignor.)						
Stromberg, John, Kenosha, Wis. Micrometer-gage	570,189	Oct. 27	2585	614	77	528
Strong, Edwin J., Plover, Iowa. Wagon-body lifter	564,459	July 21	2144	501	76	425
Strong, Edwin J., Plover, Iowa. Wagon-body lifter	573,719	Dec. 22	2945	696	77	1890
Strong, Frederick J., Coventry, England. Chin rest or holder for violins	560,053	May 12	1295	291	75	940
Strong, George, Detroit, Mich. Bag holder	566,809	Sept. 1	119	29	76	1304
Strong, George S., assignor to Balanced Locomotive and Engineering Company, New York, N. Y. Steam-engine	559,501	May 5	263	62, 63	75	732
Strong, George S., assignor to Balanced Locomotive and Engineering Company, New York, N. Y. Compound engine	559,502	May 5	265	63	75	733
Strong, George S., assignor to Balanced Locomotive and Engineering Company, New York, N. Y. Steam-engine	572,732	Dec. 8	1144	276	77	1515

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Strong, John N., Philadelphia, Pa. Indicator for elevators.....	567,012	Sept. 1	490	114	76	1374
Strong Manufacturing Company. (See Chapman, William A., assignor.)						
Strong, Preston W., Brooklyn, N. Y. Sharpening device.....	560,052	May 12	1292	291	75	940
Strong, Samuel D., Homer, Mich. Tank-heater.....	555,667	Mar. 3	321	74	74	1187
Stroud, Clayton H., Memphis, Tenn. Saw-handle.....	563,090	June 30	3595	861	75	2130
Stroud, William. (See Barr and Stroud.)						
Strouse, Demetrius B., assignor to Bonsack Machine Company, Salem, Va. Machine for securing seams of paper tubes.....	554,095	Feb. 4	535	120	74	602
Strouse, Demetrius B., assignor to Bonsack Machine Company, Salem, Va. Cigarette-machine.....	554,096	Feb. 4	538	120	74	602
Strouse, James H. (See Hartman and Strouse.)						
Strouse, Jay S., Baltimore, Md. Fuse-box.....	554,042	Feb. 4	438	96	74	525
Strout, Joseph M., Portland, Me. Dental matrix carrier and retainer.....	574,012	Dec. 29	3475	830	77	2002
Strowger Automatic Telephone Exchange. (See Keith, Alexander E., assignor.)						
Struben, Jacob, Kalamazoo, Mich. Feed-water heater and purifier.....	569,362	Oct. 13	1116	266	77	230
Struble, Charles B., and C. S. Turner, Minneapolis, Minn. Vegetable-slicer.....	557,914	Apr. 7	686	164	75	130
Stuart, Abbie H. (See Stuart, Albert H., assignor.)						
Stuart, Albert H., assignor to A. H. Stuart, Boston, Mass. Tone-modifying attachment for pianos.....	568,050	Sept. 22	2304	559	76	1751
Stuart, Ithamer W., assignor of one-half to H. Turner, St. Louis, Mo. Power-wheel.....	566,632	Aug. 25	3013	736	76	1299
Stuart, John C., Chicago, Ill. Safety appliance for railway-switches.....	573,494	Dec. 22	2528	599	77	1810
Stuart, Robert J., New Hamburg, N. Y. Folding bed.....	570,348	Oct. 27	2913	691	77	5-9
Stuart, Sinclair, Plainfield, N. J. Construction of ships, &c.....	566,485	Aug. 25	2809	685	76	1198
Stuart, William, Musselburgh, Scotland. Double-knot netting and device for making same.....	562,676	June 23	2807	682	75	1958
Stuart, William T., Cheyenne, Wyo. Mail-bag catcher.....	564,120	July 14	1564	367	76	308
Stubblebine, William, Bethlehem, Pa. Housing and roll-journal bearing for shafting.....	562,259	June 16	2101	509	75	1809
Stubblebine, William, Bethlehem, Pa. Air-heating apparatus for furnaces.....	573,799	Dec. 22	3063	725	77	1913
Stubbers, Joseph, assignor to E. A. Kinsey, deceased, (S. M. Kinsey executrix,) Cincinnati, Ohio. Oven-rack.....	556,908	Mar. 24	2549	600	74	1655
Stubbs, Frederic. (See Wilson and Stubbs.)						
Stubbs, Frederic, Sheffield, England. Magazine-camera.....	573,309	Dec. 15	2176	519	77	1727
Stuckstede, John G., St. Louis, Mo. Bearing for rock-shafts.....	555,346	Feb. 25	2749	644	74	1066
Stucky, Giovanni, Venice, Italy. Drying apparatus.....	565,532	Aug. 11	1067	256	76	833
Studebaker Brothers Manufacturing Company. (See Stover, William B., assignor.)						
Stueber, Theodore W., Parsons, Kans. Railway signaling apparatus.....	568,218	Sept. 22	2612	628	76	1809
Stukes, John M., Roswell, New Mex. Ter. Churn.....	553,272	Jan. 21	1426	345	74	296
Stukes, John M., Field Creek, Tex. Churn.....	568,005	Sept. 22	2218	536	76	1736
Stump, Ira E., assignor of one-half to J. M. Schneider, Canton, Ohio. Land-roller.....	552,794	Jan. 7	544	133	74	102
Stump, Ira E., assignor of one-half to J. M. Schneider, Canton, Ohio. Carpet-sweeper.....	573,554	Dec. 22	2629	625	77	1829
Stump, William G. H. (See Ferguson, William J., assignor.)						
Stumpf, Johannes. (See Lenz and Stumpf.)						
Stumpf, John, Charlottenburg, Germany. Valve-motion for pumps.....	553,878	Feb. 4	124	25	74	529
Stumpf, John, Chicago, Ill. Pump.....	571,702	Nov. 17	2240	539	77	1097
Stumpf, Valentine A., Indianapolis, Ind. Adjustable umbrella-carrier.....	558,914	Apr. 21	2461	599	75	495
Stupakoff, Simon H. (See Goodman and Stupakoff.)						
Stuparich, Paul J., San Francisco, Cal. Cutter for bevel-cards.....	572,320	Dec. 1	419	99	77	1359
Sturges, Henry B., New Haven, Conn. Thill for carriages.....	563,091	June 30	3595	861	75	2130
Sturges, Ira B., Portland, Oreg. Device for cleaning tobacco-pipes.....	554,744	Feb. 18	1662	392	74	847
Sturges, George F., Leicester, England. Knitting-machine.....	562,436	June 23	2403	583	75	1882
Sturgis, Charles H. and W. H. Swartz Creek, Mich. Railway-switch.....	569,034	Oct. 6	549	126	77	105
Sturgis, Wilbur H. (See Sturgis, Charles H. and W. H.)						
Sturgis, James, Edgerton, Mo. Device for closing fine-thimbles.....	565,941	Aug. 18	1825	443	76	906
Sturm, Joseph N., and H. Froelich, San José, Cal. Water-heater.....	554,745	Feb. 18	1663	392	74	848
Sturtevant Mill Company. (See Sturtevant, Thomas L. and T. J., assignors.)						
Sturtevant, Thomas J. (See Sturtevant, Thomas L. and T. J.)						
Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Framingham, Mass., assignors to Sturtevant Mill Company, Portland, Me., and Boston, Mass. Grinding-mill.....	572,386	Dec. 1	548	129	77	1382
Stutsman, Henry, Portland, Oreg. Draft-regulator.....	557,715	Apr. 7	336	80	75	65
Stutsman, Reuben O., assignor to Bartholomew Company, Des Moines, Iowa. Corn-popper.....	564,230	July 21	1751	410	76	355
Stutsman, Reuben O., Des Moines, Iowa, assignor to Bartholomew Company, of Iowa. Corn-popper.....	564,231	July 21	1754	410	76	355
Stutz, J. C. (See Scholer, Gustave A., assignor.)						
Stutzman, Frank, Williamsport, Pa. Cutter-head.....	553,366	Jan. 21	1594	380	74	326
Styles, Robert. (See Hufschmidt and Styles.)						
Succop, Charles H. E., Pittsburg, Pa. Sash-fastener.....	561,451	June 2	692	172	75	1502
Sucker, Charles, London, England. Autoharp.....	557,290	Mar. 31	3235	776	74	1804
Suckert, Julius J. (See Dickerson and Suckert.)						
Suda, Franz. (See Hellmann, Ludikar, and Suda.)						
Sudenga, George F., and E. E. Keck, George, Iowa. Power-hammer.....	565,523	Aug. 11	1068	257	76	834
Suffolk Nailing Machine Company. (See Weeks, Horace, assignor.)						
Suffolk Nailing Machine Company. (See Weeks and Tuttle, assignors.)						
Sugden, Frederick, et al. (See Roy, John J., assignor.)						
Suggs, Martin L., Lowell, N. C. Nut-lock.....	565,942	Aug. 18	1826	443	76	996
Suidter, Johann B. O., Lucerne, Switzerland. Lustrous paint.....	565,147	Aug. 4	369	.....	76	686
Sullens, Charles A. (See Gordon, Charles A., assignor.)						
Sullivan, Charles L., and C. E. Burnap, assignors to American Brake Beam Company, Chicago, Ill. Brake-beam.....	567,664	Sept. 15	1628	392	76	1612
Sullivan, Cornelius F., Boston, Mass. Die for making screw-driver blades.....	562,934	June 30	3295	795	75	2071
Sullivan, Daniel F., assignor to A. White, Lowell, Mass. Stop-motion for knitting-machines.....	559,505	May 5	270	64	75	734
Sullivan, Eugene A., Denver, Colo. Cooking utensil.....	568,465	Sept. 29	3029	727	76	1903
Sullivan, G. R., et al. (See Norcross, George A., assignor.)						
Sullivan, Henry T. (See Fish and Sullivan.)						
Sullivan, J. O., et al. (See Norcross, George A., assignor.)						
Sullivan, James J., New York, N. Y. Device for starting race-horses.....	557,915	Apr. 7	687	164	75	130
Sullivan, James J., New Haven, Conn. Pool-pocket indicator.....	563,628	July 7	661	154	76	124
Sullivan, John L., Albia, Iowa. Mail-bag crane.....	572,916	Dec. 8	1444	348	77	1575
Sullivan, Joseph A., Cincinnati, Ohio. Electrical communication.....	567,112	Sept. 1	670	156	76	1409

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Sullivan Machinery Company. (See Ball, Albert, assignor.)						
Sullivan Machinery Company. (See Mitchell, Jonas L., assignor.)						
Sullivan, Michael E., New Bedford, assignor to G. Draper & Sons, Hopedale, Mass. Tension mechanism for ring-spinning machines.	562,777	June 23	2992	724	75	1994
Sullivan, Michael H., Carbondale, Pa. Carpet-holder.	569,525	Oct. 13	1390	328	77	278
Sullivan, Patrick. (See Snyder, George W., assignor.)						
Sullivan, Timothy, Fall River, Mass. Salvage-protector or cloth-guide.	553,045	Jan. 14	1011	247	74	204
Sullivan, Timothy J., Albany, N. Y. Siphon for tanks for water-closets.	559,503	May 5	267	64	75	734
Sullivan, Timothy J., Albany, N. Y. Trap for waste-pipes for bowls, &c.	559,504	May 5	268	64	75	734
Sultan, Simon, <i>et al.</i> (See Müller-Jacobs, Armand, assignor.)						
Sulzbach, Georg. (See Sulzbach, Jacob and G.)						
Sulzbach, Jacob, College Point, N. Y., and G. Sulzbach, Leipsic, Germany, assignors to J. Sprich, Jr., Paterson, N. J. Incandescent gas-lamp	556,481	Mar. 17	1820	423	74	1503
Sulzer, Oscar R. (See Bachmann and Sulzer.)						
Sumbling, William H., Chicago, Ill. Vacuum-pump.	560,240	May 19	1653	376	75	1058
Summerer, John C., Cleveland, Ohio. Joist-hanger.	560,947	May 26	2955	678	75	1313
Summers, Bertrand S., and C. O. Boring, Chicago, Ill. Electrolytic separation of vegetable fibers	565,706	Aug. 11	1386	337	76	894
Summers, Bertrand S. and L. L., Chicago, Ill. Electrolytic process of bleaching and refining	569,680	Oct. 20	1685	399	77	349
Summers, Dewitt C., assignor of one-half to B. Moore, Waco, Tex. Cotton chopper and cultivator	573,369	Dec. 15	2269	541	77	1745
Summers, James E., assignor to American Champion Plaster Company, Richmond, Va. Plastering compound	558,434	Apr. 14	1636		75	327
Summers, James E., assignor to American Champion Plaster Company, Richmond, Va. Plastering compound	558,435	Apr. 14	1637		75	327
Summers, James G., Charleston, W. Va. Rotary water-meter	571,703	Nov. 17	2242	539	77	1097
Summers, Leland L. (See Summers, Bertrand S. and L. L.)						
Summers, Leland L., Chicago, Ill. Automatic gate for railway-crossings.	568,051	Sept. 22	2305	559	76	1752
Summers, Smith W., St. Louis, Mo., assignor to International Automatic Air Brake Coupler Company, of Illinois. Automatic pipe-coupling	568,466	Sept. 29	3029	727	76	1903
Summers, W. Preston. (See Epting, Thomas E., assignor.)						
Summersgill, Mark W., Philadelphia, Pa. Apparatus for treating vegetable fiber	556,590	Mar. 17	2014	470	74	1538
Sumner, George F., Canton, Mass. Knit fabric for mattresses.	573,720	Dec. 22	2947	696	77	1890
Sumner, William J., assignor to Coburn Trolley Track Manufacturing Company, Holyoke, Mass. Trolley carrier and hanger	564,949	July 28	2995	713	76	598
Sumner, William J., assignor to Coburn Trolley Track Manufacturing Company, Holyoke, Mass. Switch and bracket for trolley-tracks.	564,950	July 28	2996	713	76	599
Sumser, John H. (See Schleicher, Charles, assignor.)						
Sunbury Water Company. (See Slaymaker, Jasper, assignor.)						
Sunderland, Jesse W., assignor of one-half to A. J. McDuffee, Chicago, Ill. Washing-machine	570,190	Oct. 27	2586	614	77	528
Sunderlin, Martin J., Watkins, N. Y. Carbon-holder for type-writing machines	555,748	Mar. 3	446	106	74	1210
Sundstrom, Herman T., Galveston, Tex. Mergenthaler linotype-machine	557,716	Apr. 7	338	80	75	65
Superior Drill Company. (See Packham, Frank R., assignor.)						
Superior Drill Company. (See Patric, Charles E., assignor.)						
Suppes, Maximilian M., Lorain, Ohio. Mechanism for cooling machinery	566,633	Aug. 25	3015	736	76	1239
Suppes, Maximilian M., Lorain, Ohio. Conveyor	569,681	Oct. 20	1687	400	77	349
Surface, William E. (See Powers and Surface.)						
Surface, William S. (See Goodwin, Adolphus D., assignor.)						
Susemihl, Francis G., Detroit, assignor to Sheffield Car Company, Three Rivers, Mich. Cattle-guard	567,844	Sept. 15	1937	464	76	1671
Sustins, Alfred A., A. F., and E. G., Stevens Point, Wis. Roundabout	570,739	Nov. 3	597	137	77	748
Sustins, Arthur F. (See Sustins, Alfred A., A. F., and E. G.)						
Sustins, Ernest G. (See Sustins, Alfred A., A. F., and E. G.)						
Sussmann, Max, Neu-Ruppin, Germany, assignor to Electric Exploitation Company, Limited, London, England. Secondary battery	556,782	Mar. 24	2340	551	74	1616
Sutcliffe, James A., <i>et al.</i> (See Stevenson, John, assignor.)						
Suter, Carl. (See Kiliani, Rathenau, and Suter.)						
Suter & Co., G. A. (See Pattison, Richard, assignor.)						
Sutherland, Robert, Boston, Mass. Window-sash	562,503	June 23	2507	608	75	1902
Sutherland, Robert V. V., Berryton, Kans. Mop-head	552,649	Jan. 7	263	71	74	51
Sutliff, Albert E. (See Thrall and Sutliff.)						
Sutter, Benjamin. (See Goschel and Sutter.)						
Surthoff, John H., Seattle, Wash. Tea-infuser.	561,921	June 9	1527	370	75	1683
Sutton, Benjamin F. (See Parker and Sutton.)						
Sutton, Benjamin F., Brooklyn, N. Y., assignor to Parker, Stearns & Sutton, of New York. Dress-shield	561,067	May 26	3139	725	75	1348
Sutton, Eugene S., Snohomish, Wash. Door-lock	553,367	Jan. 21	1596	381	74	396
Sutton, George W., New Rochelle, assignor to Phoenix Interior Telephone Company, New York, N. Y. Microphone	561,358	June 2	523	131	75	1470
Sutton, Thomas J., New York, N. Y. Fishing-reel	554,011	Feb. 4	376	83	74	574
Sutton, Thomas J., New York, N. Y. Burglar-alarm	555,982	Mar. 10	864	204	74	1312
Sutton, Thomas J., New York, N. Y. Burglar-alarm	559,631	May 5	480	111	75	774
Sutton, Thomas J., New York, N. Y. Sash-lock	568,992	Oct. 6	483	110	77	92
Sutton, William, St. Louis, Mo. Street-car	556,287	Mar. 10	1470	342	74	1421
Sutton, William, St. Louis, Mo. Street-car	556,288	Mar. 10	1472	342	74	1422
Sutton, William H., Mineral Springs, Ark. Combination-plow	563,518	July 7	479	113	76	91
Svagrösky, Max, Prague, Austria-Hungary. Tube	566,243	Aug. 18	2331	571	76	1093
Svensson, Claes A., assignor of one-half to W. W. Oliver, Buffalo, N. Y. Treadle.	558,228	Apr. 14	1276	812	75	258
Svensson, John H. (See Dahlgren and Svensson.)						
Swadling, John H., and H. H. Kelley, Minneapolis, Minn. Car-seal	560,176	May 12	1524	344	75	983
Swain, Fred B., and J. G. Clark, assignors to Grove Manufacturing Company, Oshkosh, Wis. Overalls	563,092	June 30	3596	862	75	2130
Swain, Hadwen, San Francisco, Cal. Gas or oil engine	564,769	July 28	2680	637	76	541
Swain, Harry C. (See Giddings and Swain.)						
Swain, James T., Pittsburg, Pa. Bolting or clamping device	559,506	May 5	272	64	75	735
Swain, Robert. (See Rauert, Henry A., assignor.)						
Swaine, George R. (See Eggerdinger and Swaine.)						
Swan, Alfred, New York, N. Y. Incandescent lamp and socket	570,517	Nov. 3	144	36	77	665
Swan, Alfred, New York, N. Y. Incandescent-lamp fitting	573,929	Dec. 29	3310	791	77	1972

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Swan, Alfred F., Bayonne, N. J. Telephone system	572,840	Dec. 8	1322	317	77	1550
Swan, George E., Beaver Dam, Wis. Sole and heel spring for boots or shoes	562,748	June 23	2942	713	75	1984
Swan, Henry C., Oshkosh, Wis. Running-gear for vehicles	558,229	Apr. 14	1278	312	75	259
Swan, Henry C., Oshkosh, Wis. Running-gear for vehicles	558,230	Apr. 14	1279	312	75	259
Swan, Henry C., Oshkosh, Wis. Vehicle running-gear	558,231	Apr. 14	1281	312 313	75	259
Swan, Henry C., Oshkosh, Wis. King-bolt socket for vehicles	558,232	Apr. 14	1282	313	75	259
Swan, Henry C., Oshkosh, Wis. Vehicle-spring	572,733	Dec. 8	1147	277	77	1515
Swan, Henry V., New York, N. Y. Decorative attachment for cycle-wheels	554,400	Feb. 11	1065	248	74	718
Swan, John P., Boston, Mass. Pipe-hanger	566,810	Sept. 1	120	30	76	1304
Swan, Joseph W. (See Kendall, James A., assignor.)						
Swaney, Fletcher D., Kansas City, Kans. Combined folding bed and couch	566,813	Sept. 1	124	30.31	76	1305
Swanger, Peter, Washington, Pa. Making metal tubes	572,583	Dec. 8	869	209	77	1463
Swanson, Nels E., Osceola, Nebr. Baling-press	556,482	Mar. 17	1822	423 424	74	1503
Swanson, Nils O., Lead, S. D. Drill-chuck	571,461	Nov. 17	1828	436	77	1022
Swanson, Olof P., Jobs, Ohio. Nut-lock	573,800	Dec. 22	3066	726	77	1913
Swanson, Peter N., assignor of one-third to E. Anderson, Galva, Ill. Folding gambrel	554,549	Feb. 11	1319	309	74	766
Swanson, Svert E. (See Smedeman, Gustaf, assignor.)						
Swanson, Theodore A. (See Hanna and Fairman, assignors.)						
Swanstrom, Charles J., Deadwood, S. D. Curtain-holder	564,121	July 14	1566	368	76	308
Swarbrig, David S., Philadelphia, Pa. Umbrella-runner retainer	554,897	Feb. 18	1939	456	74	900
Swaren, William A., Oblong, Ill. Vote-recording machine	569,682	Oct. 20	1688	400 401	77	350
Swart, Lester D. (See Stevens and Swart.)						
Swart, Lester D., assignor to A. W. Stevens & Son, Auburn, N. Y. Corn-husking machine	559,548	May 5	344	83	75	750
Swart, Lester D., assignor to A. W. Stevens & Son, Auburn, N. Y. Corn-husking machine	560,868	May 26	2820	646	75	1288
Swart, Lester D., and O. Avery, assignors to A. W. Stevens & Son, Auburn, N. Y. Corn-husking machine	559,547	May 5	343	83	75	749
Swartz, Joseph W., Philadelphia, Pa. Car-fender	561,293	June 2	407	101	75	1449
Swartz, Ananias, Timberville, Va. Label-holder	568,636	Sept. 29	3362	806	76	1964
Swartz, George W., Florence, Ala. Steam-boiler	561,292	June 2	406	100	75	1448
Swartz, Nelson R., and F. J. Frizzell, Findlay, Ohio. Grip for oil-wells	564,232	July 21	1757	411	76	356
Swartz, Nicholas, Jr., and H. M. Wood, Carversville, Pa. Meat-suspender	565,943	Aug. 18	1827	444	76	996
Swearengen, Claude, and D. S. Lemen, Milwaukee, Wis. Bicycle-alarm	573,555	Dec. 22	2630	655	77	1829
Sweeney, George J., Petaluma, Cal. Voting-machine	552,675	Jan. 7	306	82.83	74	60
Sweeney, John J., Louisville, Ky. Floating skimmer for boiler-cleaners	569,070	Oct. 6	609	138	77	117
Sweeney, Samuel B., and B. F. Clark, Zionsville, Ind. Street-car bridge for protection of fire-hose	556,382	Mar. 17	1641	384	74	1468
Sweeney, Thomas J., assignor to Penberthy Injector Company, Detroit, Mich. Injector	554,401	Feb. 11	1066	249	74	718
Sweeney, Vardiman T., Springfield, Ky. Vehicle-brake	573,246	Dec. 15	2038	489	77	1703
Sweeny, George D., Ewart, Iowa. Tool for setting hinges	560,869	May 26	2821	646	75	1288
Sweeny, Peter B. (See Dale and Denney, assignors.)						
Sweet, Alonzo L., Chicago, Ill. Friction-clutch	568,006	Sept. 22	2219	536	76	1736
Sweet, Alonzo L., assignor to Seamless Leather Company, Chicago, Ill. Machine for making clench-loops	568,637	Sept. 29	3364	807	76	1964
Sweet, Alonzo L., Chicago, Ill., assignor to Seamless Leather Company, of Illinois. Machine for forming and pressing loops	571,290	Nov. 10	1545	366 367	77	954
Sweet, Alonzo L., Chicago, Ill., assignor to Seamless Leather Company, of Illinois. Machine for splitting leather for forming pockets	571,291	Nov. 10	1549	367 368	77	955
Sweet, Alonzo L., Chicago, Ill., assignor to Seamless Leather Company, of Illinois. Machine for cutting leather	571,292	Nov. 10	1551	368 369	77	956
Sweet, Alonzo L., Chicago, Ill., assignor to Seamless Leather Company, of Illinois. Machine for trimming leather	571,293	Nov. 10	1553	369	77	956
Sweet, Alonzo L., Chicago, Ill., assignor to Seamless Leather Company, of Illinois. Machine for finishing leather loops	571,294	Nov. 10	1554	369 370	77	957
Sweet, Alonzo L., Chicago, Ill., assignor to Seamless Leather Company, of Illinois. Leather-slitting machine	571,295	Nov. 10	1558	370	77	958
Sweet, Benjamin F., Fond du Lac, Wis. Sleigh	556,783	Mar. 24	2341	552	74	1616
Sweet, Benjamin F., Fond du Lac, Wis. Lumber-wagon	556,784	Mar. 24	2342	552	74	1617
Sweet, Benjamin F., Fond du Lac, Wis. Sleigh	560,072	May 12	1337	300	75	948
Sweet, Don A. (See Pitney and Gardner, assignors.)						
Sweet, Franklin, Milwaukee, Wis. Catch for swinging doors	568,638	Sept. 29	3367	807	76	1964
Sweet, John E., assignor to O. M. Edwards, Syracuse, N. Y. Window	562,935	June 30	3296	795 796 306	75	2071
Sweet, John E., Syracuse, N. Y., assignor to Pratt & Whitney Company, Hartford, Conn. Traversing-machine	565,642	Aug. 11	1268	307 308 309	76	871
Sweet, Joseph L. (See Wilds, John, assignor.)						
Sweet, Larnette C., Loami, Ill. Top-adjuster for vehicles	565,814	Aug. 11	1578	384	76	929
Sweet, Ruxton S., and H. S. McBride, Bowling Green, Ohio. Hot-air furnace	573,930	Dec. 29	3311	791	77	1972
Sweetland, Alvah, Memphis, N. Y. Combined potato and corn planter	568,639	Sept. 29	3369	807	76	1965
Sweetland, Dana W., and A. C. H. Kraft, Chicago, Ill. Lantern	557,717	Apr. 7	340	81	75	65
Sweetland, Frank, Angola, N. Y. Pneumatic tire	559,873	May 12	962	214	75	877
Sweetmeat Automatic Delivery Company. (See Fotheringham, John, assignor.)						
Sweetser, George, et al. (See Temple, William J., assignor.)						
Swem, Lawrence W., West Liberty, Iowa. Hydraulic air-pump	556,220	Mar. 10	1316	308	74	1392
Swendeman, Joseph E., Boston, assignor to G. F. Pinkham, Wollaston, Mass. Electric gas-lighting burner	552,594	Jan. 7	154	43	74	31
Swenson, Magnus, Chicago, Ill. Device for sampling cotton or other products	557,088	Mar. 24	2853	683	74	1716
Swenson, Magnus, Chicago, Ill. Cotton-press	557,089	Mar. 24	2855	683	74	1716
Swenson, Magnus, Chicago, Ill., assignor to Cotton Ginners Compress Company, Jersey City, N. J. Machine for picking or opening bales of cotton	573,931	Dec. 29	3313	791	77	1973
Swenson, Magnus, Chicago, Ill., assignor to Cotton Ginners Compress Company, Jersey City, N. J. Cotton-bale opening or picking machine	574,048	Dec. 29	3538	845	77	2014
Swenson, Magnus, Chicago, Ill., assignor to Cotton Ginners Compress Company, Jersey City, N. J. Cotton-press	574,121	Dec. 29	3673	876	77	2038
Swenson, Swen E., New York, N. Y. Coin-bank	574,180	Dec. 29	3604	908	77	2060
Swenson, Swen E., New York, N. Y., assignor of one-half to E. M. Roche, Bloomfield, N. J. Lock	574,179	Dec. 29	3603	908	77	2060
Sweny, Henry R., Albany, N. Y. Golf-stick	566,101	Aug. 18	2107	514	76	1050

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Swerer, Elmore J. (See Maxfield, William C., assignor.)						
Swift, George W., Jr., Philadelphia, Pa., assignor to G. W. Swift, Sr., Bordentown, N. J. Umbrella or parasol	574,080	Dec. 29	3592	858	77	2024
Swift, George W., Jr., and C. T. Packer, assignors of one-half to C. R. Carver, Philadelphia, Pa. Embossing-press	558,860	Apr. 21	2350	<div>572 573 574</div>	<div>75</div>	475
Swift, Horace E., Boston, Mass., assignor to Jones-Swift Manufacturing Company, Portland, Me. Computing beam-scale	552,676	Jan. 7	308	83	74	60
Swift, Horace E., Boston, Mass., assignor to United States Computing Scale Company, Portland, Me. Price-computing scale	563,246	June 30	3851	923	75	2178
Swift, J. W., et al. (See Lent, Cyrenus W., assignor.)						
Swift, John P., Boston, Mass. Tag tying and bunching machine	566,353	Aug. 25	2523	<div>617 618 619</div>	<div>76</div>	1145
Swift, Theodore, et al. (See Lent, Cyrenus W., assignor.)						
Swift, William A., deceased, (S. Compton, administrator,) and W. W. Stewart, Columbus, Ga. Nozzle	573,721	Dec. 22	2947	697	77	1890
Swift, William R. (See Gordon and Swift.)						
Swift, William R., New York, N. Y. Regenerative gas-lamp	571,704	Nov. 17	2243	<div>539 540 541</div>	<div>77</div>	1097
Swihart, John H., Dayton, Ohio. Spring-balance scale	559,110	Apr. 28	2803	<div>678 679</div>	<div>75</div>	580
Swindell, Charles, Pollard, Tenn. Saddle-stirrup	569,071	Oct. 6	611	139	77	117
Swindell, James D., Allegheny, Pa. Gas-producer	557,171	Mar. 31	3001	<div>715 716</div>	<div>74</div>	1765
Swindell, James D., Pittsburg, Pa. Gas-producer	572,184	Dec. 1	155	38	77	1307
Swinglehurst, Harry. (See Williams and Swinglehurst.)						
Swink, Irving H., Dublin, Pa. Paint-oil	568,419	Sept. 29	2954		76	1889
Swink, Irving H., Dublin, Pa. Oil-paint	569,306	Oct. 13	1025		77	211
Swink, Irving H., Dublin, Pa. Gate	572,228	Dec. 1	240	57	77	1324
Swinscoe, Henry K., Clinton, Mass. Wire-netting	573,370	Dec. 15	2272	542	77	1746
Swisher, Orange, assignor of one-half to A. C. Vanlue, West Baltimore, Ohio. Device for leveling separators	564,544	July 21	2273	533	76	449
Switz, Theodore A., St. Paul Minn. Folding chair	563,816	July 14	991	235	76	201
Switzer, Ous T., Montour, Iowa. Harrow	561,452	June 2	699	172	75	1502
Swoboda, Hans O., New York, and E. Lavens, Brooklyn, N. Y., assignors to General Incandescent Arc Light Company, of New York. Electric-arc lamp	553,697	Jan. 28	2164	511	74	447
Swofford, Thomas C., Hope, Ark. Rail-joint	553,180	Jan. 14	1264	306	74	251
Syberg, Fritz. (See Flodman, Gustaf F., assignor.)						
Sykes, Thomas, Manchester, England. Fuel-economizer	565,643	Aug. 11	1277	310	76	873
Sykes, William R., Jr., and J. P. O'Donnell, London, assignors to R. B. Annesley, Liverpool, and E. Blakey, Bradford, England. Lock-and-block signaling on railways	568,993	Oct. 6	486	110	77	93
Sylvester, Edward G., Thornton, Iowa. Harness head-gear	569,526	Oct. 13	1391	328	77	279
Sylvester, Henry. (See Clennam, Milton A., assignor.)						
Syme, David A., Elmhurst, assignor of one-third to O. H. Fleischer, Chicago, Ill. Tool for repairing pneumatic tires	573,049	Dec. 15	1696	406	77	1640
Symington, William A. (See Smith, Thomas N., assignor.)						
Symmank, Herman, and E. Matthijez, Giddings, Tex. Plow	559,229	Apr. 28	3073	742	75	628
Symons, Frank H., assignor to H. G. Jordan, Boston, Mass. Coal-screen	557,172	Mar. 31	3002	716	74	1766
Symons, Sarah, Island of Guernsey. Millinery trimming	563,817	July 14	993	236	76	202
Symons, Walter, London, England. Means and appliance connected with book-covers, &c.	564,659	July 28	2485	<div>586 587</div>	<div>76</div>	507
Syms, Robert H., New York, N. Y. Apparatus for inking and wiping dies in printing-presses	567,797	Sept. 15	1846	443	76	1653
Synnestvedt, Paul, Oak Glenn, assignor to Crane Company, Chicago, Ill. Triple-valve mechanism for automatic air-brakes	556,221	Mar. 10	1317	303	74	1392
Syracuse Arms Company. (See Horne, George A., assignor.)						
Syracuse Chilled Plow Company. (See Burdick, Hiram M., assignor.)						
Syracuse Specialty Manufacturing Company. (See Frisbie, William L., assignor.)						
Syrverson, Nathan M. G., Rock Dell, Minn. Door-hanger	564,318	July 21	1903	449	76	382
Szalay, John, South Bend, Ind. Axle skein and box	567,665	Sept. 15	1629	393	76	1612
Szontagh, Oscar, and A. F. Schneider, Perth Amboy, N. J. Apparatus for circulating liquids in tanks	563,093	June 30	3597	862	75	2130
Taber, Freeman A., San Francisco, Cal. Producing embossed photographs	556,591	Mar. 17	2016	471	74	1538
Taber, Orrin, San Francisco, Cal. Thill-coupling	552,936	Mar. 30	3300	796	75	2071
Tabor, Thomas H., Ellijay, Ga. Wagon-bed hoist	557,450	Mar. 31	3506	838	74	1857
Tackaberry, John A., New York, N. Y. Truck	569,072	Oct. 6	611	139	77	117
Taft, Edward L., Fitchburg, Mass. Water-closet seat	554,501	Feb. 11	1247	292	74	751
Taft, Edward L., Gardner, assignor of one-half to J. L. Chapman, Worcester, Mass. Wood-planing machine for shaping warped or irregular surfaces	561,359	June 2	523	132	75	1471
Taft, Edward L., Gardner, assignor of one-half to J. L. Chapman, Fitchburg, Mass. Molding-machine for forming warped or irregular surfaces	573,050	Dec. 15	1698	406	77	1641
Taft, F. A. (See Loree, Perry E., assignor.)						
Taft, Jerome C., Providence, R. I. Swaging-machine	573,051	Dec. 15	1701	407	77	1641
Taft, Joseph A., Columbus, Ohio. Steam-boiler	559,915	May 12	1043	232	75	892
Taggard, J. R., et al. (See King, Calvin W., assignor.)						
Taggard, Robert, Decatur, Ill. Fan attachment for rocking-chairs	573,114	Dec. 15	1805	435	77	1662
Taggard, William P., assignor of one-half to T. H. Bechtel, Philadelphia, Pa. Drying-furnace	562,345	June 16	2260	548	75	1839
Tague, Edward J., McLuney, Ohio. Railway-crossing	574,285	Dec. 29	4013	952	77	2099
Tait, Felix B. (See Gross, John, assignor.)						
Tait, Felix B. (See Gross and Moore, assignors.)						
Tait, Felix B. (See Moore, Josiah H., assignor.)						
Tait, John C. (See Howard and Tait.)						
Takamine, Jokichi, Peoria, Ill. Converting starchy material into sugar	562,103	June 16	1853		75	1763
Talbot, Benjamin, Pencoyd, Pa. Metallurgical furnace	571,250	Nov. 10	1479	347	77	941
Talbot, George, Lynn, Mass., assignor to Talbot Heater Manufacturing Company, of Maine. Heater for hot water or steam	568,994	Oct. 6	488	110	77	93
Talbot, George H., Newton, Mass. Envelop-sealer	556,942	Mar. 24	2599	611	74	1664
Talbot Heater Manufacturing Company. (See Talbot, George, assignor.)						
Talbot, John, Birmingham, England. Bedstead-fittings	556,222	Mar. 10	1318	309	74	1392
Talbot, Reginald. (See Jones and Talbot.)						
Talbot, Reginald S., Lincoln, Me., assignor to New England Sulphite Digester Company, Boston, Mass. Method of and apparatus for assorting wood-pulp chips	556,111	Mar. 10	1109	264	74	1354

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Talbot, Reginald S., and N. M. Jones, Lincoln, Me. Apparatus for assorting wood-pulp chips	557,718	Apr. 7	341	81	75	65
Talbot, Romuald J., Providence, R. I. Merry-go-round	566,945	Sept. 1	360	84	76	1351
Tallerday, Franklin G., assignor of two-thirds to J. W. Zigler and W. E. Borley, Mishawaka, Ind. Tank	567,666	Sept. 15	1630	393	76	1612
Tallerday, Franklin G., assignor of two-thirds to J. W. Zigler and W. E. Borley, Mishawaka, Ind. Tank	567,667	Sept. 15	1631	393	76	1612
Tallmadge, James W., Boston, Mass. Chemical ink-eraser	556,785	Mar. 24	2344		74	1617
Tallmadge, James W., assignor, by mesne assignments, to Bridgeport Gas Machine Company, Bridgeport, Conn. Receptacle for holding hydrocarbon or other volatile liquids	570,884	Nov. 3	850	198	77	799
Tallman, Wilber H., McKeesport, Pa. Car-brake	566,814	Sept. 1	127	31	76	1305
Tamm, William B. (See Gnadt, Adolph, assignor.)						
Tama, James, Trenton, N. J. Device for placing pottery in kilns	556,229	Mar. 10	1472	343	74	1422
Taneyhill, Olin B. (See Kelly, Henry, assignor.)						
Tangeman, Charles O., Fern Bank, Ohio. Device for issuing tickets, &c.	565,185	Aug. 4	443	106	76	699
Tangyes, Limited. (See Pinkney, Charles W., assignor.)						
Tanner, Albert, Melrose Park, Ill. Molder's sand for steel castings	566,486	Aug. 25	2210		76	1198
Tanner, Grace L., et al. (See Whitcomb, Willis E., assignor.)						
Tantine, Joseph. (See Bauche and Tantine.)						
Taplin Rice & Company. (See Rook, William H., Jr., assignor.)						
Tapscott, Robert L., Liverpool, England. Machine for cleaning and polishing boots or shoes	558,324	Apr. 14	1435	353	75	229
Tarbet, Samuel B. (See Keedle and Tarbet.)						
Tarbet, Wilton P. (See Keedle and Tarbet.)						
Tarbell, Charles A. (See Benedict, Daniel B., assignor.)						
Tardis, Patrick P., Anthony, R. I. Combined baby-chair, swing, and crib	565,047	Aug. 4	145	34	76	645
Tarr, John B., New Bedford, Mass. Steam fire-engine	568,379	Sept. 29	2286	694	76	1277
Tarr, Katherine S., New York, N. Y. Bag or sack supporter	558,531	Apr. 21	1800	437	75	374
Tate, Samuel W., Elberton, Ga. Kitchen-cabinet	557,095	Mar. 24	2266	685	74	1718
Tatham, James, Philadelphia, Pa. Electric railway	563,094	June 30	3593	862	75	2131
Tatham, William. (See Tatham, William P. and W.)						
Tatham, William P., Philadelphia, Pa., and W. Tatham, Helena, Mont. Manufacture of white lead	562,437	June 23	2405		75	1883
Tattersall, Arthur A., Blackburn, England. Combination-tool	560,824	May 26	2717	624	75	1269
Tatton, Joseph, Leek, England. Skirt-grip and belt-shaper	558,233	Apr. 14	1283	313	75	260
Taube, Henning G. (See Andersson, Gustaf M., assignor.)						
Taulis, Enrique, Santiago, Chile. Process of and apparatus for sterilizing milk	564,851	July 28	2813	671	76	565
Tausig, Emil, New York, N. Y. Apparatus for delivering disinfecting material, &c.	570,518	Nov. 3	146	36	77	665
Taylor, Christopher. (See Slade, Daniel, assignor.)						
Taylor, Albert. (See Jackson and Taylor.)						
Taylor, Arthur K., Wilmington, Del. assignor to Economic Machine Company, New York, N. Y. Automatic trip mechanism for printing-presses	567,259	Sept. 8	917	{ 219 220 }	76	1465
Taylor, Benjamin W., Evansville, Ind. Game apparatus	570,779	Nov. 3	657	150	77	759
Taylor, Call, assignor of three-fourths to W. J. Kimmont, C. W. Walton, Detroit, Mich., and W. H. Faxon, Buffalo, N. Y. Boiler-compound feeder	560,764	May 26	2624	602	75	1250
Taylor, Charles H. (See Meeker and Taylor.)						
Taylor, Charles H., San Francisco, Cal. Sand-box for cars	559,549	May 5	345	- 83	75	750
Taylor, Charles H., South Orange, N. J. Car-coupling	561,835	June 9	1329	333	75	1656
Taylor, Charles H., South Orange, N. J. Car-coupling	561,836	June 9	1390	333	75	1656
Taylor, Charles O., Urbana, Ohio. Fly-exit	556,445	Mar. 17	1761	400	74	1492
Taylor, Charles Y., Wilmington, Del. Draft-screen	566,615	Sept. 1	128	31	76	1305
Taylor & Co., G. W., et al. (See Dodd, George R., assignor.)						
Taylor, Daniel, New Cumberland, W. Va. Pottery-molding machine	566,036	Aug. 18	1994	423	76	1020
Taylor, David F., Wichita, Kans. Spool-holder	569,307	Oct. 13	1026	244	77	211
Taylor, Edmund J., M. M. Cochran, and S. Adams, Toll Gate, W. Va. Bicycle attachment	555,271	Feb. 25	2613	{ 612 613 }	74	1041
Taylor, Edward T., Oakland, Cal. Cash register and indicator	566,878	Sept. 1	237	55	76	1328
Taylor, Elijah F., Sheffield, England. Paper bag	572,229	Dec. 1	241	57	77	1324
Taylor, Emery E., Minneapolis, Minn. Car-wheel shifter	558,532	Apr. 21	1802	438	75	374
Taylor, Emery E., Minneapolis, Minn. Car-jack	564,233	July 21	1758	411	76	356
Taylor, Eugene H. (See Elder and Taylor.)						
Taylor, Eugene H., Lynn, Mass. Beating-out machine	562,865	June 30	3165	767	75	2043
Taylor, Eugene H., Lynn, Mass. Cutting and scoring roll for paper-box machines	562,985	June 30	3397	817	75	2093
Taylor, Eugene H., Lynn, Mass. Cutting and scoring roll for paper-box machines	565,186	Aug. 4	444	107	76	699
Taylor, Eugene H., Lynn, Mass. Mechanical movement	572,584	Dec. 8	870	209	77	1463
Taylor, Eugene H., Lynn, Mass., assignor, by mesne assignments, to Heaton-Peninsular Button Fastener Company, of Rhode Island. Button-setting machine	558,234	Apr. 14	1284	{ 313 314 315 }	75	260
Taylor, Eugene H., assignor of one-half to A. H. Breed, Lynn, Mass. Machine for trimming heels	560,378	May 19	1893	{ 432 433 }	75	1101
Taylor, Franklin, Wilmington, Del. Wheel-rim	566,244	Aug. 18	2332	571	76	1093
Taylor, Frederick A., P. W. Farrell, and W. S. Quebe, Galveston, Tex. Coach and car step	565,645	Aug. 11	1289	311	76	875
Taylor, Frederick D., Leek, England. Anchor	566,427	Aug. 25	26-0	654	76	1176
Taylor, Frederick W., Philadelphia, Pa. Grinding-machine	565,644	Aug. 11	1277	{ 310 311 }	76	873
Taylor, Frederick W., Madison, Me. Crane	568,174	Sept. 22	2536	{ 610 611 }	76	1795
Taylor Gas Producer Company. (See Taylor, William J., assignor.)						
Taylor, George, and M. B. McLauthlin, Boston, Mass., assignors to Sanitary Construction Company, New York, N. Y. Garbage drier or carbonizer	563,332	July 7	176	39	76	36
Taylor, George A., St. Louis, Mo. Roofing-tile	553,321	Jan. 21	1517	364	74	311
Taylor, George H., New York, N. Y. Dress-protector	560,241	May 19	1655	377	75	1059
Taylor, Harold D., York, England. Lens	568,052	Sept. 22	2311	561	76	1753
Taylor, Hiram, Salem, Ohio. Device for operating windows for cleaning	560,948	May 26	2956	678	75	1313
Taylor Iron and Steel Company. (See Taylor, William J., assignor.)						
Taylor, Isabella L. (See De Moulin, John, assignor.)						
Taylor, Jacob, Prairie Depot, Ohio. Means for pumping oil-wells	565,815	Aug. 11	1579	325	76	929
Taylor, James A., Lima, Ind. Road-scraper and carrier	552,936	Jan. 14	843	203	74	171
Taylor, James A., Lima, Ind. Road-scraper and carrier	570,885	Nov. 3	852	199	77	799
Taylor, James A., assignor of one-half to C. S. Nichols, Lima, Ind. Road-scraper and carrier	555,270	Feb. 25	2610	612	75	1040
Taylor, James B., Fairview, N. Mex. Ter. Combined self-feeding bench-drill and lathe	559,003	Apr. 23	2611	636	75	542
Taylor, James M., Dubois, assignor of one-half to G. M. Bilger, Clearfield, Pa. Display-rack	573,835	Dec. 22	3141	748	77	1927

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Taylor, James T., assignor of one-half to S. F. Newton, J. T. and W. F. Morgan, J. L. Rader, and J. C. F. Raburn, Severy, Kans. Tire adjuster	573,310	Dec. 15	2177	519	77	1728
Taylor, Jeremiah, assignor of one-half to W. A. Lloyd-Davies, Wolverhampton, England. Hair-curler	568,175	Sept. 22	2541	611	76	1796
Taylor, Job, assignor of one-half to W. H. Thornton, Buffalo, N. Y. Thread-forming tool for bottle-necks	557,451	Mar. 31	3507	838	74	1857
Taylor, John, Troy, N. Y. Electric-car truck	561,530	June 2	844	203	75	1529
Taylor, John C., Findlay, Ohio. Car-coupling	563,095	June 30	3600	863	75	2131
Taylor, John C., Dallas, Tex. Roller-bearing well-wheel pulley	567,055	Sept. 1	569	132	76	1389
Taylor, John C., assignor of one-half to E. Ross, Findlay, Ohio. Car-coupling	571,251	Nov. 10	1480	347	77	941
Taylor, John D., Chillicothe, Ohio. Apparatus for railway signaling and switching	554,097	Feb. 4	541	{ 120 121 }	{ 74 74 }	{ 603 603 }
Taylor, John W., assignor of one-half to F. M. Williams, Cape Girardeau, Mo. Vegetable-mincer	555,834	Mar. 3	572	134	74	1234
Taylor, Joseph B., Greenbush, N. Y. Sight for firearms	561,360	June 2	527	133	75	1471
Taylor, Joseph S., et al. (See Welch, Rosia W., assignor.)						
Taylor, Joseph S., and C. Davies, Liverpool, England. Suction-connection device	566,816	Sept. 1	129	31	76	1306
Taylor, Lewis B. (See Webb, Paul L., assignor.)						
Taylor, Minor W., Waterloo, Iowa. Railway-crossing gate and signal	564,234	July 21	1759	{ 411 412 }	{ 76 76 }	{ 357 357 }
Taylor, Norton B., and J. C. Dias, assignors of one-tenth to J. Redfern, Wilmerding, Pa. Coke-oven	561,922	June 9	1530	370	75	1624
Taylor, Richard H., Westport, Conn. Weighing-machine	569,893	Oct. 20	2061	490	77	415
Taylor, Samuel, Manchester, England. Siphon-bottle	554,154	Feb. 4	655	148	74	625
Taylor, Samuel, Houston, Tex. Non-refilling bottle	570,238	Oct. 27	2683	637	77	547
Taylor, Samuel C., Chicago, Ill. Window	559,468	May 5	206	46	75	721
Taylor, Theodore A. (See Peckinpangh, Sebastian S., assignor.)						
Taylor, Thomas A., and G. W. S. Austin, Kenton, Ohio. Air-brake coupling-valve	558,235	Apr. 14	1288	315	75	260
Taylor, Thomas P., Bridgeport, Conn. Shoulder-bustle	553,546	Jan. 28	1905	451	74	401
Taylor, Thomas S., San Rafael, Cal. Device for coupling bicycles	556,168	Mar. 10	1221	285	74	1375
Taylor, Tidal A. (See Spencer, Slaughter L., assignor.)						
Taylor, Walter F., assignor of one-half to L. M. Pinolet, Montreal, Canada. Telephone-system	559,874	May 12	964	{ 214 215 }	{ 75 75 }	{ 877 877 }
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Door check and closer	558,621	Apr. 21	1948	472	75	400
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Door check and closer	558,622	Apr. 21	1949	473	75	401
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Padlock	558,623	Apr. 21	1951	473	75	401
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Knob and making same	563,693	July 7	770	181	76	145
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Rim-lock	565,372	Aug. 4	763	182	76	758
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Transom-lifter	567,205	Sept. 8	822	195	76	1449
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Padlock	567,206	Sept. 8	823	195	76	1449
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Pin-lock	567,624	Sept. 15	1554	375	76	1596
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock-hub	568,502	Sept. 29	3095	{ 745 746 }	{ 76 76 }	{ 1915 1915 }
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Rim-lock	571,027	Nov. 10	1089	254	77	869
Taylor, William B., et al. (See Norman, Addison, assignor.)						
Taylor, William H., Baltimore, Md. Machine for finishing shoe-counters	559,632	May 5	481	111	75	775
Taylor, William H., South Kingstown, R. I. Rowlock for boats	564,725	July 28	2604	621	76	528
Taylor, William H., Narragansett Pier, R. I. Tire for bicycles	568,813	Oct. 6	172	41	77	35
Taylor, William J., et al. (See Johnson and Adcock, assignors.)						
Taylor, William J., Bound Brook, assignor to Taylor Gas Producer Company, Camden, N. J. Gas-producer	565,048	Aug. 4	146	34	76	645
Taylor, William J., Bound Brook, assignor to Taylor Iron and Steel Company, High Bridge, N. J. Compound metallic article	565,243	Aug. 4	574	134	76	721
Taylor, William L. (See Hanable, Charles A., assignor.)						
Taylor, William L., East Liverpool, Ohio. Locking electric-lamp socket	569,727	Oct. 20	1787	424	77	366
Taylor, William O., Philadelphia, Pa., assignor to I. T. Jones, Sandwich, Mass. Tack or nail	565,397	Aug. 4	809	192	76	767
Taylor, William R. (See Duffield and Taylor.)						
Taylor, William S., Rensselaer, Ind. Nose-ringer	557,719	Apr. 7	343	81	75	66
Taylor, Zachariah A., assignor of one-half to J. M. Porter, Stevenson, Ala. Churn-operating mechanism	567,519	Sept. 8	1374	331	76	1547
Teahen, James M., and W. E. French, Syracuse; said Teahen assignor to S. H. French, Auburn, N. Y. Self-closing faucet	557,720	Apr. 7	345	81	75	66
Teal, Harry S., and W. S. Hamm, assignors to Adams & Westlake Company, Chicago, Ill. Illuminating-gas burner	557,721	Apr. 7	348	82	75	67
Teal, Henry S., and J. W. Crate, Chicago, Ill. Hose-band	554,155	Feb. 4	656	148	74	625
Teal, Wilber G., assignor of one-third to A. M. Johnson, Curtis, Nebr. Lister-cultivator	555,112	Mar. 10	1111	{ 264 265 }	{ 74 74 }	{ 1354 1354 }
Teamer, William H. B. (See Mucklé and Teamer.)						
Tearney, Francis S., et al. (See Dutro, Oliver T., assignor.)						
Tebbetts, Leslie W. (See Tebbetts, Marston and L. W.)						
Tebbetts, Marston and L. W., San Diego, Cal. Bottle	572,387	Dec. 1	551	130	77	1382
Tebo, Gracia C. (See Colby, Caleb K., assignor.)						
Teché, John V. (See Gaiennie, Alphonse F., assignor.)						
Techentin, Henry. (See Clark, John E., assignor.)						
Techintin, Henry, et al. (See Boswell, George G. F., assignor.)						
Technic Electrical Works. (See Bournonville and Zimmele, assignors.)						
Tedford, Sarah J., Los Angeles, Cal. Inhaler	560,177	May 12	1525	345	75	983
Teetor, Jacob, Hagerstown, Ind. Letter-holder	556,383	Mar. 17	1642	384	74	1469
Teetor, Charles N., Hagerstown, Ind. Railway-velocipede	569,683	Oct. 20	1698	402	77	351
Teetor, Martin, and G. W. Kemp, assignors to F. D. Wetherell, Des Moines, Iowa. Apparatus for cleaning boilers	563,893	July 14	1151	270	76	231
Teetor, Martin V., Sodun, N. Y. Liquid-dispensing apparatus	563,212	June 30	3799	910	75	2169
Teichmann, Richard, Brooklyn, N. Y. Game of skill	558,325	Apr. 14	1436	353	75	289
Teige, Georg A. J., Oldenberg, Germany. Electric meter	555,589	Mar. 3	177	41	74	1162

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Teller, Chauncey W., West Troy, N. Y. Street-railway car	567,798	Sept. 15	1848	{ 443 444 }	76	1653
Teltschik, Emil, Vienna, Austria-Hungary. Button-shank and button	571,986	Nov. 24	2767	653	77	1216
Temler, Josef, London, England, assignor, by mesne assignments, to National Metal Edge Box Company, of New Jersey. Rivet	571,177	Nov. 10	1356	316	77	919
Temmel, Richard, Berlin, Germany. Elastic tire	566,354	Aug. 25	2540	619	76	1147
Tempère, Albert J., Paris, France. Deodorizing petroleum and products thereof	557,291	Mar. 31	3237	-----	74	1205
Temple, Ansel F., Muskegon, Mich., assignor to Stewart Hartshorn Company, Newark, N. J. Extension curtain-roller	570,719	Nov. 3	552	128	77	741
Temple, Ansel F., Muskegon, Mich., assignor to Stewart Hartshorn Company, Newark, N. J. Extension curtain-roller	570,720	Nov. 3	554	128	77	741
Temple, Orville G., Russell, Ky., and W. S. Spencer, Milton, W. Va. Stock-guard for rail-ways	560,765	May 26	2625	{ 602 603 }	75	1250
Temple, Robert, assignor of one-third to A. C. Galland, Denver, Colo. Bottle and stopper therefor	560,444	May 19	2024	463	75	1123
Temple, Simpson G., Nottingham, Ohio. Fastening device	569,308	Oct. 13	1026	244	77	212
Temple, William, New York, N. Y. Whip-rack	561,243	June 2	284	71	75	1423
Temple, William E., et al. (See Saxton, Augustus C., assignor.)						
Temple, William J., assignor of two-thirds to H. Pickard and G. Sweetser, Hampden, Me. Shaft-coupling	562,206	June 16	2020	488	75	1795
Templeton, James S., Chicago, Ill. Removing smut from wheat, &c.	564,398	July 21	2040	478	76	407
Ten Eyck, Henry B., Johnstown, N. Y. Ironing-board	565,707	Aug. 11	1388	338	76	895
Ten Winkel, Herman, Denver, Colo. Apparatus for utilizing exhaust-steam	565,866	Aug. 11	1682	412	76	950
Tenney, Samuel A., Hartland, Wis. Bow-facing and self-feathering oar	557,318	Mar. 31	3282	787	74	1813
Tennison, John S., assignor of one-half to W. A. Patterson, Waco, Tex. Storage-condenser and lint-cotton conveyer	555,189	Feb. 25	2464	584	74	1014
Tennyson, John H., New York, N. Y. Safety appliance for elevators	559,633	May 5	483	{ 112 113 }	75	775
Terbell, Josephus B. (See Applegate, Eugene W., assignor.)						
Termaat, John D. (See Monahan and Termaat.)						
Terman, James W., New Sharon, assignor of one-half to D. Champlain, Colfax, Iowa. Compound for purifying butter	559,634	May 5	487	-----	75	775
Terpening, Clinton W., Bedford, Iowa. Bicycle-brake	572,137	Dec. 1	80	17	77	1293
Terrell, Elah, assignor of one-half to H. A. Lanman, Columbus, Ohio. Copying device	553,630	Jan. 28	2043	484	74	426
Terrell, Henry D., Atlanta, Ga. Heel-sweep	560,603	May 19	2327	524	75	1171
Terrell, William H., Yonkers, N. Y. Clamp	566,487	Aug. 25	2811	685	76	1198
Terror, Charles, Cannstadt, Germany. Knitting-frame	542,677	June 23	2808	682	75	1958
Terrot, Charles, Dijon, France. Chain-gearing	563,096	June 30	3601	863	75	2131
Terry, Ernest D. (See Place and Terry.)						
Terry, Eugene, Ithaca, assignor of one-half to C. H. Duell, Syracuse, N. Y. Type-writing machine	555,541	Mar. 3	96	21	74	1148
Terry, Eugene, Ithaca, assignor of one-half to C. H. Duell, Syracuse, N. Y. Type-writing machine	565,148	Aug. 4	370	85.86	76	686
Terry, Eugene, Ithaca, assignor of one-half to C. H. Duell, Syracuse, N. Y. Type-writing machine	570,886	Nov. 3	857	{ 199 200 }	77	890
Terry, Howell P. (See Wright and Terry.)						
Terry, John R., Long Island City, N. Y. Tire-protector	559,958	May 12	1114	249	75	904
Terry, John R., Long Island City, N. Y. Vehicle-wheel	561,738	June 9	1213	287	75	1625
Terry, John W., assignor, by mesne assignments, to V. H. Hewes, Bridgeport, Conn. Grinding-machine	570,110	Oct. 27	2448	522	77	502
Terry, Mack C., Marseilles, Ohio. Wire fence	562,538	June 23	2605	632	75	1918
Terry, Samuel H., assignor of one-half to S. P. Galt, St. Louis, Mo. Sash fastener and operator	566,428	Aug. 25	2681	{ 654 655 }	76	1176
Terry, Samuel L., assignor of one-half to W. Stretton, Phillipsburg, Kans. Pressure-recorder for fluid-pressure brakes	568,963	Oct. 6	422	94.95	77	81
Terstegge, Henry. (See Gohmann and Terstegge.)						
Terwilleger, Cornelius G., Volinia, Mich. Cutter-bar for harvesters	566,355	Aug. 25	2540	620	76	1148
Tesla Electric Company. (See Tesla, Nikola, assignor.)						
Tesla, Nikola, New York, N. Y. Electrical condenser	567,818	Sept. 15	1892	453	76	1662
Tesla, Nikola, New York, N. Y. Apparatus for producing electric currents of high frequency and potential	568,176	Sept. 22	2543	612	76	1796
Tesla, Nikola, New York, N. Y. Apparatus for producing ozone	568,177	Sept. 22	2544	612	76	1796
Tesla, Nikola, New York, N. Y. Regulating apparatus for producing currents of high frequency	568,178	Sept. 22	2546	613	76	1797
Tesla, Nikola, New York, N. Y. Method of and apparatus for producing currents of high frequency	568,179	Sept. 22	2548	613	76	1797
Tesla, Nikola, New York, N. Y. Apparatus for producing electrical currents of high frequency	568,180	Sept. 22	2550	614	76	1797
Tesla, Nikola, assignor to Tesla Electric Company, New York, N. Y. Alternating motor	555,190	Feb. 25	2467	584	74	1015
Tessaro, Angelo, Padua, Italy. Apparatus for printing or ruling on paper or metal	569,845	Oct. 20	1984	{ 472 473 474 }	77	402
Tesseyman, Henry, Dayton, Ohio. Car-truck	564,904	July 28	2892	693	76	580
Test, Charles E., assignor to Indianapolis Chain and Stamping Company, Indianapolis, Ind. Making rivets, studs, &c.	565,049	Aug. 4	147	35	76	645
Tetley, George, Valley Falls, R. I. Water-front for boilers	563,990	July 14	1324	309	76	261
Teuber, Arnold, and L. Odenheimer, assignors of one-third to Guiterman Bros., St. Paul, Minn. Watch-pocket	555,227	Feb. 25	2529	{ 596 597 }	74	1025
Teupe, Frank, Louisville, Ky. Piano	567,668	Sept. 15	1632	394	76	1612
Textile Manufacturing Company. (See Campbell, Sumner B., assignor.)						
Thacher, Edwin, Detroit, Mich. Bridge	570,239	Oct. 27	2684	637	77	547
Thackara Manufacturing Company. (See Peoples, George, assignor.)						
Thacker, Thomas, Fall River, Mass. Spinning-ring holder	562,986	June 30	3400	817	75	2093
Thackeray, Charles, Montreal, Canada Incinerator	553,574	Jan. 28	1960	{ 463 464 465 }	74	410
Thackrah, Benjamin, Amsterdam, N. Y. Spotting-feed for knitting-machines	561,739	June 9	1214	287	75	1625
Thain, Richard S., Oak Park, Ill. Soap-bubble pipe	555,411	Feb. 25	2856	674	74	1087
Thaison, A., et al. (See Stansel, Thomas J., assignor.)						
Thaison, Andrew, Laredo, Tex. Kiln	572,841	Dec. 8	1324	{ 318 319 }	77	1550
Thalheimer, Albert, Reading, Pa. Clamp for cigar-molds	567,419	Sept. 8	1220	292	76	1519
Thalheimer, Albert, Reading, Pa. Cigar-box	567,420	Sept. 8	1221	292	76	1519

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Thalmann, Ernst. (See Mayer, Karl, assignor.)						
Thaney, John. (See Koelzer and Thaney.)						
Thannheimer, Joseph, Dayton, Ohio. Pleasure-wheel.....	563,894	July 14	1152	{ 270 271 }	76	231
Thatcher, Brigham G. (See Peterson and Curtis, assignors.)						
Thatcher, Frederick B., Providence, R. I. Salt-shaker.....	568,503	Sept. 29	3096	746	76	1915
Thatcher, Frederick B., Providence, R. I. Salt-shaker.....	572,138	Dec. 1	82	17	77	1293
Thatcher, Frederick B., Pawtucket, R. I. Bottle-stopper.....	574,013	Dec. 29	3476	830	77	2002
Thatcher, Hervey D., Potsdam, N. Y. Paraffined pail.....	553,794	Jan. 28	2317	550	74	477
Thatcher Manufacturing Company. (See Barnhart, Harvey P. and S. L., assignors.)						
Thauer, George. (See Gates and Thauer.)						
Thaw, Charlie. (See Silverston, Anthony B., assignor.)						
Thayer, George B. (See Tobey and Thayer.)						
Thayer, George B., and E. D. Wheeler, Benton Harbor, Mich. Mechanism for wiring baskets.....	573,311	Dec. 15	2178	520	77	1728
Thayer, Harry B., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Spring-jack for telephone-switchboards.....	563,333	July 7	177	40	76	36
Thayer, Henry J., et al. (See Wold, Olaus C., assignor.)						
Thayer, Henry W. (See Thayer, James H. and H. W.)						
Thayer, James H. and H. W., Brooklyn, N. Y. Guard for railway-cars.....	554,898	Feb. 18	1940	456	74	900
Thayer, Joseph S., and H. L. Michael, Parsons, Kans. Shackle-bar for drawing drift-bolts.....	564,122	July 14	1566	368	76	308
Thayer, Sanders M., Jamestown, N. Y. Dumping device for earth-scrapers.....	571,959	Nov. 24	2724	644	77	1208
Thayer, Silas R., Chicago, Ill. Label-attaching machine.....	554,012	Feb. 4	378	83, 81	74	575
Thayer, William H., Atchison, Kans. Hog trough.....	561,453	June 2	700	172	75	1502
Theiring, Andrew J., Cincinnati, Ohio. Axle-bearing.....	561,626	June 9	1009	242	75	1576
Theiring, Andrew J., Cincinnati, Ohio. Knee-rest.....	568,320	Sept. 29	2289	694	76	1877
Theiring, Andrew J., Cincinnati, Ohio. Axle-bearing.....	570,111	Oct. 27	2449	582	77	502
Thelen, Leonard N., Darlington, Wis. Adjustable candle-holding attachment for candle-sticks.....	559,875	May 12	968	215	75	879
Theobald, George, Boston, Mass., assignor of one-fourth to G. Theobald, Jr., Providence, R. I. Saddle-tree.....	564,726	July 28	2605	621	76	528
Theobald, John J., Mount Oliver, Pa. Die.....	573,371	Dec. 15	2274	542	77	1746
Therrell, Daniel M., Charleston, S. C. Electric-railway system.....	560,551	May 19	2195	501	75	1153
Théry, Charles, Marseilles, France. Wheel with electrical motor-hub for vehicles.....	572,036	Nov. 24	2846	670	77	1230
Theurer, Jacob F., Milwaukee, Wis. Beer-cooler.....	561,740	June 9	1216	{ 288 289 }	75	1625
Theurer, Jacob F., assignor to Pabst Brewing Company, Milwaukee, Wis. Process of and apparatus for reclaiming gas employed in displacing liquids.....	572,779	Dec. 8	1222	{ 296 297 }	77	1529
Theurer, Jacob F., and P. Fischer, assignors to Pabst Brewing Company, Milwaukee, Wis. Process of and apparatus for obtaining air-free carbonic-acid gas from fermentation for carbonating beer, &c.....	554,352	Feb. 11	989	229	74	703
Theurer, Jacob F., and O. Mueller, assignors to Pabst Brewing Company, Milwaukee, Wis. Apparatus for pitching casks.....	554,399	Feb. 18	1942	{ 456 457 }	74	900
Theurer, Jacob F., and O. Mueller, assignors, by mesne assignments, to A. Pawling and H. Harnischfeger, Milwaukee, Wis. Cask-pitching apparatus.....	574,181	Dec. 29	3805	{ 908 909 }	77	2060
Thew Automatic Shoveling Company. (See Thew, Richard, assignor.)						
Thew, Richard, Cleveland, Ohio, assignor to Thew Automatic Shoveling Company, Cleveland, Ohio, and Charlestown, W. Va. Machine for handling and distributing coal, &c.....	553,082	Jan. 14	1082	{ 264 265 }	74	217
Thiange, Eduard, Bloemfontein, Orange Free State. Lock-nut.....	561,923	June 9	1531	371	75	1684
Thibodeau, Charles, Somerville, Mass. Bush-hammer.....	555,714	Mar. 3	388	90	74	1199
Thiel, Otto. (See Bertrand and Thiel.)						
Thiele, Henry, Milwaukee, Wis. Loom-heddle for cross-weaving.....	554,845	Feb. 18	1841	433	74	883
Thiele, Louis C., Indianapolis, Ind. Combined gas-burner and grate-bar.....	565,050	Aug. 4	148	35	76	645
Thieler, Gustav, Insterburg, Germany. Desk.....	561,454	June 2	701	173	75	1502
Thielman, Leonard, et al. (See Berg, Peter H., assignor.)						
Thielman, Peter R., et al. (See Berg, Peter H., assignor.)						
Thiem, Edward A., St. Paul, Minn. Adjustable wheel-gage.....	563,944	July 14	1242	290	76	246
Thiem, Edward A., St. Paul, Minn. Toe-clip for bicycles.....	574,286	Dec. 29	4015	953	77	2100
Thierkoff, Anthony W., Redding, Cal. Force-pump.....	565,646	Aug. 11	1229	311	76	875
Thiery, Edward A., assignor to Carter, Hastings & Howe, Newark, N. J. Purse.....	561,924	June 9	1532	371	75	1684
Thim, John F., Chicago, Ill. Stem winding and setting watch.....	567,207	Sept. 8	824	{ 195 196 }	76	1449
Thirlwell, William S. (See Hobson, Charles H., assignor.)						
Thode, Gustav A., Osmond, Nebr. Gas-engine.....	568,814	Oct. 6	173	41	77	35
Thode, Hans M. O., Mattton, Ill. Dipper.....	554,550	Feb. 11	1321	310	74	766
Thoeni, Martin, assignor of one-half to A. Miller, Monticello, Iowa. Milk-cooling apparatus.....	566,817	Sept. 1	130	32	76	1306
Thom, Joseph R., Girard, Kans. Adjustable curtain-fixture.....	570,349	Oct. 27	2915	691	77	529
Thomalla, Robert. (See Mühlingshaus and Thomalla.)						
Thomann, Karl, Halle, Germany. Machine for making roofing-tiles.....	558,326	Apr. 14	1438	{ 354 353 }	75	289
Thomas, Alfred J., Carbondale, Kans. Attachment for corn-planters.....	564,545	July 21	2273	533	76	449
Thomas, Alphonse, Clabecq, Belgium. Three-high rolling-mill.....	553,368	Jan. 21	1597	381	74	327
Thomas Automatic Hand Truck Company. (See Thomas, Henry O., assignor.) (Reissue.)						
Thomas, Benjamin F., Louisa, Ky. Movable dam.....	574,229	Dec. 29	3918	932	77	2081
Thomas Braid Company. (See Diss, Albert B., assignor.)						
Thomas, Charles H., Sonora, assignor of two-thirds to A. Hayward and J. Cross, San Francisco, Cal. Ore-washer.....	554,551	Feb. 11	1322	310	74	766
Thomas, Conover A., assignor of two-thirds to F. Schoener, Philadelphia, Pa. Street-car fender.....	556,384	Mar. 17	1643	384	74	1469
Thomas, David, Dinas, J. E. Baker, Cardiff, and F. Jones, Bassaleg, England. Metallic packing.....	558,236	Apr. 14	1290	315	75	261
Thomas, David C., Gloucester, Ohio. Mine trap-door.....	556,073	Mar. 10	1048	249	74	1343
Thomas, Eddy T., New York, N. Y., and A. Melhado, Montclair, N. J. Dumping-car.....	552,595	Jan. 7	156	43	74	31
Thomas, Edward G., Waltham, Mass. Automatic weighing-machine.....	573,247	Dec. 15	2041	489	77	1704
Thomas, Edward W., Lowell, Mass. Fire-extinguishing system.....	570,689	Nov. 3	509	119	77	733
Thomas, Elmer L., and B. B. Forbes, Chicago, Ill.; said Forbes assignor to said Thomas. Bicycle-lock.....	563,991	July 14	1325	309	76	261
Thomas, Enoch K., assignor of one-half to E. Dahlmeyer, New York, N. Y. Awning.....	566,548	Aug. 25	2902	{ 707 708 }	76	1216
Thomas, Francis L., Youngstown, Ohio. Vehicle fifth-wheel.....	573,722	Dec. 22	2949	697	77	1891
Thomas, Frederic R. H., assignor to I. N. Thomas, Catskill, N. Y. Bottle-filling machine.....	567,555	Sept. 8	1430	344	76	1558

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Thomas, George B., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Electric snap-switch	569,309	Oct. 13	1027	244	77	212
Thomas, George H., Latrobe, Pa. Rack	563,694	July 7	771	182	76	145
Thomas, George L., Montclair, N. J. Electrically-controlled gas engine or motor	558,749	Apr. 21	2167	522	75	441
Thomas, George L., assignor to Hasell Perfected Railway Signal Company, New York, N. Y. Electric motor	552,858	Jan. 7	669	163	74	126
Thomas, George L., Brooklyn, assignor to Hasell Perfected Railway Signal Company, New York, N. Y. Electric signaling system for railways	556,072	Mar. 10	1046	249	74	1342
Thomas, Harry A., Niagara Falls, N. Y., assignor of one-half to E. B. Wyman, Highwood, N. J. Electric heater	561,294	June 2	408	101	75	1449
Thomas, Henry O., Chicago, Ill. Hand-truck	571,705	Nov. 17	2246	540	77	1098
Thomas, Henry O., Kimball, Nebr., assignor to Thomas Automatic Hand Truck Company, Chicago, Ill. Truck. (Reissue)	11,530	Apr. 7	921	229	75	173
Thomas, Imogen N. (See Thomas, Frederic R. H., assignor.)						
Thomas, J. W., Jr., et al. (See McDonald, Lorenzo D., assignor.)						
Thomas, Jacob A., Reading, Pa. Shutter worker and fastener	561,925	June 9	1533	371	75	1684
Thomas, James and W. R., Catasaugua, Pa. Metallic tunnel	558,436	Apr. 14	1638	394	75	327
Thomas, James B., St. Louis, Mo. Interchange coupling attachment	568,420	Sept. 29	2955	709	76	1889
Thomas, James E., et al. (See Hargrave, Edward C., assignor.)						
Thomas, James R. (See Fitzgerald and Thomas.)						
Thomas, James R., New York, N. Y. Car-fender	566,879	Sept. 1	242	55, 56	76	1329
Thomas, Jesse B. (See Knight, Alfred J., assignor.)						
Thomas, John R., assignor to Berlin Machine Works, Beloit, Wis. Jointing-machine	563,097	June 30	3601	{ 863 864 865 }	75	2131
Thomas, John W., Jr., Nashville, Tenn. Apparatus for operating locomotive-whistles	566,245	Aug. 18	2334	572	76	1094
Thomas, John W., Chicago, assignor to J. E. Porter, Ottawa, Ill. Rolls for rolling suspension-rails	560,949	May 26	2958	679	75	1313
Thomas, Joseph, and J. M. Truby, Starke, Fla. Refrigerator-crate	555,835	Mar. 3	574	{ 138 139 }	74	1235
Thomas, Joseph, and J. M. Truby, Starke, Fla. Refrigerator-car	564,660	July 28	2486	587	76	707
Thomas, Joseph H., Paterson, N. J. Baby-walker	571,583	Nov. 17	2043	486	77	1060
Thomas, Joseph M., St. Louis, Mo. Smoke-consuming furnace	565,307	Aug. 4	662	159	76	738
Thomas, Lancaster, Philadelphia, Pa. Centering device	571,584	Nov. 17	2044	487	77	1060
Thomas, Lewis R., assignor of one-half to F. Beers, Newton, Kans. Conductor's hand-clip and check-case	565,051	Aug. 4	149	35	76	645
Thomas, Louis V., Paris, France. Incandescent light	567,520	Sept. 8	1376	331	76	1548
Thomas Manufacturing Company. (See Chapin, Herbert L., assignor.)						
Thomas, Martin E. (See Twyman and Thomas.)						
Thomas, Martin E., and G. C. Twyman, Bowling Green, Ky.; said Thomas assignor to said Twyman. Bearing	564,123	July 14	1567	368	76	308
Thomas, Mary J. (See Leighton, Arthur M., assignor.)						
Thomas, Mikel W., Dunreith, Ind. Cultivator	566,549	Aug. 25	2902	708	76	1216
Thomas, Miles. (See Weiland and Thomas.)						
Thomas Porter Sons & Company. (See Eisenhardt and Flynn, assignors.)						
Thomas, Robert T., and T. B. Gorton, Chicago, Ill. Curling-iron	558,533	Apr. 21	1803	438	75	375
Thomas, Robert T., and T. B. Gorton, Chicago, Ill. Curling-iron	558,861	Apr. 21	2356	574	75	476
Thomas, Rosalie P., Martinsburg, W. Va. Drop-step attachment for railway passenger-cars	570,350	Oct. 27	2916	692	77	589
Thomas, Warren B. (See Mackin, Alvie O., assignor.)						
Thomas, Warren M. (See Ferris and Thomas.)						
Thomas, Wesley A., Vicksburg, Miss., assignor of one-half to J. J. Casey, Chicago, Ill. Lateral support for sides and ends of cars	570,148	Oct. 27	2515	596	77	515
Thomas, Wilfred A. (See Lehmer and Thomas.)						
Thomas, William R. (See Thomas, James and W. R.)						
Thomas, William W., Owego, N. Y. Elevated railway	563,818	July 14	993	236	76	202
Thomas, Wyndham P., Penarth, and R. Davies, Whitchurch, England; said Davies assignor to said Thomas. Apparatus for coating metals	566,880	Sept. 1	244	56	76	1329
Thommes, Mathias. (See Montgomery, Edwin H., assignor.)						
Thompson, Alexander C., St. Louis, Mo. Electric headlight for street-cars	564,036	July 14	1401	326	76	275
Thompson, Alexander M., assignor to Link-Belt Machinery Company, Chicago, Ill. Molding device	559,635	May 5	488	113	75	776
Thompson, Ashley J., San Francisco, Cal. Paper-file	564,580	July 21	2353	553	76	463
Thompson, Berry, et al. (See Holzheimer, Henry C., assignor.)						
Thompson, Charles E., Leesburg, Va. Combination-tool	568,381	Sept. 29	2890	695	76	1877
Thompson, Charles E., Leesburg, Va. Combination carriage-jack	568,382	Sept. 29	2891	695	76	1878
Thompson, Charles I., Peoria, Ill. Lubricator	556,786	Mar. 24	2345	552	74	1617
Thompson, Charles T. (See Sanders and Thompson.)						
Thompson, Charles T., Philadelphia, Pa. Vise for holding pipes	566,246	Aug. 18	2335	572	76	1094
Thompson, Charles T., Philadelphia, Pa. Bicycle-tire	566,247	Aug. 18	2336	572	76	1094
Thompson, Christopher C., Grayson, Ky. Carpet-stretcher	574,122	Dec. 29	3676	876	77	2039
Thompson, Mrs. Clinton M. (See Larimer, William H., assignor.)						
Thompson, Courtenay W., London, England. Cut-off-valve mechanism	557,916	Apr. 7	690	165	75	131
Thompson, David M., Providence, R. I. Steam-generator	559,151	Apr. 28	2915	704	75	599
Thompson, David W., Englewood, Ill. Geographical-clock dial	557,173	Mar. 31	3003	717	74	1766
Thompson, Edward O., assignor of one-half to E. M. Mallette, Thomasville, Ga. Hydraulic-pressure-regulating valve	564,167	July 14	1655	{ 386 387 }	76	323
Thompson, Enoch A., Minneapolis, Minn. Violin	552,555	Jan. 7	92	25	74	19
Thompson, Frank E., assignor to Pratt & Whitney Company, Hartford, Conn. Weighing-machine	568,589	Sept. 29	3277	787	76	1947
Thompson, Frank E., assignor to Pratt & Whitney Company, Hartford, Conn. Weighing-machine	573,424	Dec. 15	2384	{ 568 569 }	77	1767
Thompson, Frank E., and H. J. Bingham, assignors to Pratt & Whitney Company, Hartford, Conn. Weighing-machine	568,590	Sept. 29	3279	788	76	1947
Thompson, Franklin, Brooklyn, N. Y. Sling-pulley	573,248	Dec. 15	2043	490	77	1705
Thompson, Frederic P., Fredericton, Canada. Wrench	552,795	Jan. 7	545	133	74	102
Thompson, George, Cleveland, Ohio. Micrometer-gage	571,178	Nov. 10	1357	316	77	919
Thompson, George C., and T. C. Edwards, Salinas, Cal. Thill-coupling	572,734	Dec. 8	1148	277	77	1516
Thompson, George F., et al. (See Mitchell, James C., assignor.)						
Thompson, George K. (See Stone and Thompson.)						
Thompson, George L., Chicago, Ill. Crimping-tongs	570,413	Oct. 27	3035	719	77	611
Thompson, George M. (See Harper, James R., assignor.)						
Thompson, Helen M. A., Gloversville, N. Y. Corset	564,414	July 21	2066	484	76	412

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Thompson, Henry. (See Doe, Walter S., assignor.)						
Thompson, Henry, <i>et al.</i> (See Conrad, Charles P., assignor.)						
Thompson, Herschel G., Union City, Ohio, assignor of one-half to C. W. and C. S. Pierce, Union City, Ind. Sulky corn-cultivator	566,248	Aug. 18	2336	{ 572 573 }	76	1094
Thompson, Hezekiah J., Nassau, Bahama Islands. Bicycle	569,394	Oct. 13	1167	277	77	239
Thompson, James C., London, England. Fuse for explosive projectiles or shells	565,524	Aug. 11	1069	257	76	834
Thompson, James J., Jacksonville, Fla. Mechanism for propelling railway-velocipedes and hand-cars	553,093	Jan. 14	1092	265	74	219
Thompson, James F. (See Hanstine, Harry S., assignor.)						
Thompson, James M., Burnett, Okla. Ter. Nut-lock	574,287	Dec. 29	4016	953	77	2100
Thompson, James W., St. Louis, Mo. Ore washer and collector	569,894	Oct. 20	2062	490	77	416
Thompson, John G., Leominster, and T. E. Thompson, Lawrence, Mass. Apparatus for teaching words and identifying objects	569,846	Oct. 20	1987	474	77	402
Thompson, John H., Columbus, Ind. Tanning and compound therefor	555,028	Feb. 18	2171		74	942
Thompson, John L., assignor to Margraf, Fricke & Co., Cincinnati, Ohio. Wind-wheel	571,056	Nov. 10	1135	266	77	879
Thompson, John P., Providence, R. I. Carding-machine	556,272	Mar. 24	2489	587	74	1645
Thompson, Joseph A., Rockmart, Ga. Brick-machine	564,263	July 21	1810	{ 424 425 }	76	366
Thompson, Lawrence P., Waynesborough, Pa. Machine for exhibiting and taking pictures	553,369	Jan. 21	1601	{ 381 382 }	74	327
Thompson, Lucius C. (See Warner, George W., assignor.)						
Thompson, Lucius C., Rolfe, Pa. Duplicate-whist board	553,741	Jan. 28	2246	532	74	463
Thompson, Mark S., New York, N. Y., assignor to H. W. Johns Manufacturing Company, New York, N. Y., and Jersey City, N. J. Flat-iron support	573,052	Dec. 15	1702	407	77	1641
Thompson, Merritt L., Brooklyn, N. Y. Galvanic ring	567,422	Sept. 8	1223	293	76	1520
Thompson, Oliver C., Emporia, Kans. Can-opener	556,223	Mar. 10	1319	309	74	1392
Thompson, Ralph P., <i>et al.</i> (See Paxson, Charles H., assignor.)						
Thompson, Robert H., New York, and E. W. Morton, White Plains, N. Y. Cash register, indicator, recorder, and check-printer	552,554	Jan. 7	85	{ 23 24 25 }	74	19
Thompson, Robert J., Grandin, Mo. Punch	563,098	June 30	3605	865	75	2132
Thompson, Robert J., Grandin, Mo. Combined pipe and nut wrench	563,519	July 7	480	113	76	91
Thompson, Robert P. (See Thompson, William P. and R. P.)						
Thompson, Roland B., <i>et al.</i> (See Minnias, Thomas S., assignor.)						
Thompson, Silvanus P., London, England. Electric cable	568,964	Oct. 6	426	95	77	82
Thompson, Silvanus P., London, England. Electric cable	571,706	Nov. 17	2249	540	77	1098
Thompson, Silvanus P., London, England. Electric cable	571,707	Nov. 17	2251	{ 540 541 }	77	1099
Thompson & Son, H. G. (See Snell, Adolphus G., assignor.)						
Thompson, Thomas, <i>et al.</i> (See Southwick and Walker, assignors.)						
Thompson, Thomas, New London, Wis. Neck-yoke fastener	559,008	Apr. 28	2619	634	75	543
Thompson, Thomas, New London, Wis. Rein-guard	566,818	Sept. 1	131	32	76	1306
Thompson, Thomas E. (See Thompson, John G. and T. E.)						
Thompson, Thomas G., Chicago, Ill. Machine for assorting bristles	560,870	May 26	2822	647	75	1288
Thompson, Walter V., Pasadena, Cal. Fastener	572,735	Dec. 8	1149	277	77	1516
Thompson, William, <i>et al.</i> (See Southwick and Walker, assignors.)						
Thompson, William, Brockton, Mass. Vise	557,453	Mar. 31	3510	839	74	1858
Thompson, William, assignor to E. R. Hartt, Albany, N. Y. Car-fender	569,684	Oct. 20	1700	402	77	351
Thompson, William and W. A., Brockton, Mass. Vise	557,452	Mar. 31	3508	{ 838 839 }	74	1853
Thompson, William A. (See Thompson, William and W. A.)						
Thompson, William K., Alexandria, Ind. Manufacturing edged tools	566,037	Aug. 18	1995		76	1030
Thompson, William P. and R. P., Philadelphia, Pa. Drainage-valve for radiators	573,556	Dec. 22	2633	625	77	1830
Thompson, William Y., Fort Howard, Wis. Dust-guard for air-brake hose-couplings	571,708	Nov. 17	2254	541	77	1099
Thompson, Yern, Racine, Wis. Device for carrying lanterns	565,052	Aug. 4	150	35	76	646
Thomson, Andrew, and J. Drever, San Francisco, Cal. Clasp for garment-supporters	567,421	Sept. 8	1222	293	76	1519
Thomson, Benjamin T. L., London, England. Manufacturing carbonic-acid gas	573,053	Dec. 15	1702	408	77	1642
Thomson, Charles A., Newark, N. J. Attachment for stone-planing machines	560,871	May 26	2825	647	75	1289
Thomson, Charles D. (See Dodds and Thomson.)						
Thomson, David P., and A. R. Goranson, Schenectady, N. Y., assignors to General Electric Company, of New York. Commutator	558,120	Apr. 14	1094	267	75	224
Thomson, David P., and A. H. Armstrong, Schenectady, N. Y., assignors to General Electric Company, of New York. Armature for dynamo-electric machines	565,647	Aug. 11	1290	312	76	875
Thomson, David P., and H. Geisenhöner, Schenectady, N. Y., assignors to General Electric Company, of New York. Field-magnet structure	571,462	Nov. 17	1829	436	77	1022
Thomson Electric Welding Company. (See Harthan, Charles E., assignor.)						
Thomson Electric Welding Company. (See Lemp, Hermann, assignor.)						
Thomson Electric Welding Company. (See Lemp and Lewis, assignors.)						
Thomson Electric Welding Company. (See Thomson, Elihu, assignor.)						
Thomson, Elihu, Swampscott, Mass. Producing gas	564,806	July 28	2741	652	76	552
Thomson, Elihu, Lynn, Mass., assignor to Thomson Electric Welding Company, of Maine. Electric welding indicator	555,130	Feb. 25	2371	563	74	996
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Electrical measuring-instrument	554,321	Feb. 11	937	{ 215 216 }	74	693
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Monocyclic generator	555,590	Mar. 3	178	41	74	1162
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Electric measuring instrument	560,379	May 19	1903	433	75	1102
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Rotary transformer	563,895	July 14	1154	271	76	231
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Controlling electric arcs	571,463	Nov. 17	1830	{ 436 437 }	77	1022
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Electric-arc lamp	574,123	Dec. 29	3677	876	77	2039
Thomson, Elihu, Swampscott, Mass., assignor to Thomson Electric Welding Company, of Maine. Electric riveting	555,131	Feb. 25	2374	564	74	996
Thomson, Elihu, Swampscott, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric motor	555,191	Feb. 25	2469	585	74	1015
Thomson, Fredrick W., Fort William, Canada. Machine for pulverizing quartz	554,802	Feb. 18	1760	414	74	866
Thomson, George. (See Thomson, James and G.)						
Thomson, Henry C., assignor to Electric Gas Lighting Company, Boston, Mass. Electric hand-lighting gas-burner	562,937	June 30	3301	796	75	2071
Thomson, Henry C., assignor to Electric Gas Lighting Company, Boston, Mass. Electric battery	568,007	Sept. 22	2220	536	76	1736

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Thomson, Henry C., Boston, Mass., assignor to Electric Gas Lighting Company, of Maine. Electric floor-push.....	573,723	Dec. 22	2950	697	77	1891
Thomson-Houston Electric Company. (See Bassett, Norman C., assignor.)						
Thomson-Houston Electric Company. (See Burke, James, assignor.)						
Thomson-Houston Electric Company. (See Hunter, Rudolph M., assignor.)						
Thomson-Houston Electric Company. (See Mansfield and Baker, assignors.)						
Thomson-Houston Electric Company. (See Thomson, Elihu, assignor.)						
Thomson-Houston Electric Company. (See Wightman, Merle J., assignor.)						
Thomson, James, Hamilton, and G. Thomson, Dundas, Canada. Iron-pipe pattern.....	571,413	Nov. 17	1745	416	77	1006
Thomson, John, Brooklyn, N. Y. Inkstand.....	570,191	Oct. 27	2590	615	77	529
Thomson, John, Brooklyn, N. Y., assignor to Neptune Meter Company, Newark, N. J. Disk water-meter.....	556,113	Mar. 10	1114	265	74	1355
Thomson, John, Brooklyn, assignor to Neptune Meter Company, New York, N. Y. Disk water-meter.....	568,640	Sept. 29	3372	808	76	1965
Thomson, John, Brooklyn, N. Y., assignor to Neptune Meter Company, Jersey City, N. J. Water-meter.....	568,641	Sept. 29	3374	808	76	1966
Thomson, John, Brooklyn, N. Y., assignor to Neptune Meter Company, Jersey City, N. J. Disk water-meter.....	568,642	Sept. 29	3376	809	76	1966
Thomson, Joseph L., Bayonne, N. J., assignor to Orford Copper Company, New York, N. Y. Slag-baggy train coupling.....	573,724	Dec. 22	2952	698	77	1891
Thomson, Le Roy B., and W. Burke, assignors of one-third to T. S. Brooke, Portland, Oreg. Bicycle rest.....	560,178	May 12	1529	345	75	983
Thomson, Meave. (See Gedney, Meave T.)						
Thomson, Wallace G., Halifax, England. Machine for making inlaid linoleum or other floor-cloths.....	564,852	July 28	2818	671 } 672 }	76	566
Thomson, William S., London, England. Combined bottle and case.....	565,373	Aug. 4	764	182	76	759
Thonar, Michel, Namur, Belgium, assignor, by mesne assignments, to Batterson & Eisele, New York, N. Y. Pulley-guide for ropes.....	568,076	Sept. 22	2362	571	76	1761
Thonar, Michel, Namur, Belgium, assignor, by mesne assignments, to Batterson & Eisele, New York, N. Y. Machine for cutting stone.....	568,077	Sept. 22	2364	571	76	1761
Thorn, Ashley, Clearfield, Pa. Weather-strip.....	557,319	Mar. 31	3283	787	74	1813
Thorn, George, and C. F. Austin, assignors of one-third to L. H. Partridge, Chicago, Ill. Cabinet for sheets of paper.....	559,469	May 5	207	46	75	722
Thorndyke, Thomas B., New York, N. Y. Mechanical theater.....	564,853	July 28	2820	673	76	566
Thorne Type Setting Machine Company. (See Andrews, Elbert J., assignor.)						
Thorneley, Edward H., assignor of one-half to A. W. McGowan, Ilion, N. Y. Single trigger for double-barreled guns.....	568,285	Sept. 22	2722	652	76	1830
Thornwell, Charles, assignor of one-half to A. Abrahams, Brooklyn, N. Y. Switch-operating apparatus.....	568,815	Oct. 6	174	42	77	35
Thornton, Albert H., et al. (See Wheeler, Albert H., assignor.)						
Thornton, Benjamin H., Thompsonville, Conn. Bottle.....	565,187	Aug. 4	446	107	76	699
Thornton, E. G., et al. (See Burnett, Carter J., assignor.)						
Thornton, William, Chattanooga, Tenn. Washing-machine.....	559,507	May 5	272	65	75	735
Thornton, William H. (See Taylor, Job, assignor.)						
Thornycroft, John I., London, England. Lubricator.....	554,801	Feb. 18	1757	413 } 414 }	74	866
Thornycroft, John I., London, England. Water-tube boiler.....	555,543	Mar. 3	101	22, 23	74	1149
Thornycroft, John I., London, England. Automatic feed-water regulator.....	570,351	Oct. 27	2918	692 } 693 }	77	589
Thorp, Adelbert H., Toledo, Ohio. Electropneumatic block-signal system.....	573,932	Dec. 29	3314	791 } 792 }	77	1973
Thorpe, Eliza. (See Porter, William, assignor.)						
Thorpe, John C. (See Edwards, Dolph, assignor.)						
Thorpe, John T., New Orleans, La. Duplex tube.....	554,322	Feb. 11	938	216	74	694
Thorpe, Joseph M., San José, Cal. Window pocket and cover.....	560,950	May 26	2959	679	75	1314
Thorpe, Robert H. (See Brown and Thorpe.)						
Thorpe, Robert H., New York, N. Y. Apparatus for purifying and storing water.....	568,550	Sept. 29	3199	770 } 771 }	76	1933
Thorpe, Robert H., and T. E. Brown, Jr., New York, N. Y., assignors to National Company, Chicago, Ill. Apparatus for filling air vessels under pressure.....	569,774	Oct. 20	1871	443 } 444 }	77	381
Thorson, Soren D., Chicago, Ill. Steamboat.....	569,253	Oct. 13	929	222	77	193
Thorsen, Reinhold, Gothenburg, Sweden, assignor, by mesne assignments, to Singer Manufacturing Company, Elizabeth, N. J. Machine for sewing on shank-buttons.....	559,004	Apr. 28	2613	636	75	542
Thrall, Burton H., and A. E. Sutliff, Tomahawk, Wis. Saw-swage.....	559,230	Apr. 28	3074	742	75	629
Threlkeld, J. M., et al. (See Holzheimer, Henry C., assignor.)						
Threlkeld, John H. (See Threlkeld, Thomas G. and J. H.)						
Threlkeld, John H. and T. G. Cool, Iowa. Horse-collar.....	557,722	Apr. 7	350	82	75	67
Threlkeld, Thomas G. (See Threlkeld, John H. and T. G.)						
Threlkeld, Thomas G. and J. H., Liberty Centre, Iowa. Hay rake and loader.....	570,071	Oct. 27	2375	564	77	488
Thresh, John C., Chelmsford, England. Disinfecting apparatus.....	560,951	May 26	2960	679 } 680 }	75	1314
Throm, Charles F., Toledo, Ohio. Apparatus for forming eaves-troughs.....	557,348	Mar. 31	3335	800	74	1835
Throop, John H., Evansville, Ind. Stage apparatus for boats or vessels.....	555,542	Mar. 3	96	22	74	1148
Thuman, Frederic, Evansville, Ind., assignor to Humphrey & Glasgow, New York, N. Y., and London, England. Gas-generator.....	557,243	Mar. 31	3156	756 } 757 }	74	1790
Thunderbolt, Edward, Carlton, Victoria. Governor for regulating speed of machinery.....	567,366	Sept. 8	1133	273	76	1504
Thunen, Charles G., Oroville, Cal. Sight for firearms.....	573,725	Dec. 22	2953	698	77	1891
Thurnan, Robert E., Victoria, Canada. Bottle.....	573,495	Dec. 22	2330	599	77	1810
Thurman, Squire P., assignor of one-half to O. C. Shellman, Chambers, Ky. Fence-machine tension device.....	567,113	Sept. 1	672	157	76	1409
Thurman, Thomas I. (See Barnhill and Thurman.)						
Thurston, Joel P. (See Neal, George P., assignor.)						
Thurston, John H., Boston, Mass. False nipple for receivers.....	566,881	Sept. 1	246	56	76	1329
Thury, René, assignor to Compagnie de l'Industrie Electrique, Geneva, Switzerland. Regulating device for controlling working of electromotors.....	556,945	Mar. 24	2602	612	74	1065
Thury, René, assignor to Compagnie de l'Industrie Electrique, Geneva, Switzerland. Dynamo-electric machine.....	567,423	Sept. 8	1224	293 } 294 }	76	1520
Thury, René, assignor to Compagnie de l'Industrie Electrique, Geneva, Switzerland. Transformer for electric currents.....	567,424	Sept. 8	1227	294 } 295 }	76	1520
Huston, Eli A., and G. E. Gill, Columbus, Ohio. Wheel-tire.....	553,698	Jan. 28	2166	512	74	448
Thwaite, Robert S., Little Falls, N. J. Ash-sifter.....	568,383	Sept. 29	2692	696	76	1878
Thwaite, Harry, Philadelphia, Pa. Flush-tank.....	568,995	Oct. 6	489	110	77	93
Thwaite, Frederick C. (See Engels, Hugo F., assignor.)						
Thyll, Arthur K., assignor to Electric Sutter Company, New York, N. Y. Electric cloth-cutting machine.....	556,224	Mar. 10	1320	309	74	1393

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Tibbetts, J. E. (See White, Edward F., assignor.)						
Tibbetts, Samuel F., Biddeford, Me. Wood-mortising machine	573,312	Dec. 15	2180	520	77	1728
Tibbits, Milton O. (See Cover and Tibbits.)						
Tibbitt, Alton W., St. Louis, Mo., assignor of one-third to H. C. Tucker. Sectional pneumatic tire						
Tibbitts, Frank R., W. A. Madison, and C. J. Allen, assignors to Playford Stoker Company, Cleveland, Ohio. Furnace-grate for steam-boilers	567,521	Sept. 8	1378	332	76	1548
Tice, Frederic C., Roanoke, Va. Dilating-irrigator	561,627	June 9	1012	242 243	75	1586
Tice, Josiah. (See Lockwood, William C. and J. M., assignors.)	572,736	Dec. 8	1151	277	77	1516
Tice, Phillip B., Elk county, Kans. Cold tire shrinker or expander	568,643	Sept. 29	3377	809	76	1966
Tidd, Marshall, assignor of one-half to J. Robertson, Woburn, Mass. Instrument for measuring thickness of leather	564,235	July 21	1763	412	76	358
Tideman, Henry. (See Kern and Tideman.)						
Tiede, Emil L., Belmont, Iowa. Ribbon-clasp	533,084	Jan. 14	1094	266	74	220
Tiedtke, Franz, Goslar, Germany. Label-fastener	561,244	June 2	286	72	75	1423
Tiemann, Johann C. W. F., Berlin, assignor to Haarmann & Reimer, Holzminden, Germany. Making ketone from orris-root	559,636	May 5	490		75	776
Tiefel, Leonard C., assignor to H. R. Lewis, Rochester, N. Y. Extension-ladder	555,836	Mar. 3	577	139	74	1235
Tiemann, Frederik, Rice, Minn. Belt-fastener	554,803	Feb. 18	1763	415	74	867
Tiemann, Johann C. W. F., Berlin, assignor to Haarmann & Reimer, Holzminden, Germany. Aromatic ketone and making same	556,943	Mar. 24	2600		74	1665
Tiemann, Johann C. W. F., Berlin, assignor to Haarmann & Reimer, Holzminden, Germany. Converting compounds of the citral series into isomers	556,944	Mar. 24	2602		74	1665
Tiff, Franklin D., Beaver Falls, N. Y., assignor to W. J. Hiss, East Orange, N. J. Apparatus for shaping wood and pulp plates	569,685	Oct. 20	1702	402 403	77	351
Tiffany, Eli, Bennington, Vt. Needle-actuating jack for knitting-machines	558,237	Apr. 14	1292	316	75	251
Tiffany, George S., Highland Park, Ill., assignor to Gray National Telautograph Company, Richmond, Va. Telautograph	567,325	Sept. 8	1061	253	76	1490
Tiffany, George S., Highland Park, Ill., assignor to Gray National Telautograph Company, Richmond, Va. Telautograph	570,072	Oct. 27	2376	565	77	488
Tiffany, George S., Highland Park, Ill., assignor to Gray National Telautograph Company, Richmond, Va. Telautograph	570,112	Oct. 27	2452	583	77	503
Tiffany, George S., assignor of one-half to T. S. Wheelright, Highland Park, Ill. Gas or vapor engine	573,628	Dec. 22	2779	658	77	1861
Tighe, Charles, London, England. Fog signaling apparatus for railways	557,036	Mar. 24	2774	659	74	1699
Tighe, Thomas, Schenectady, N. Y. Sliding-door fastener	568,078	Sept. 22	2366	571 572	76	1762
Tilden, Bert O., Hartford, Conn. Sewage system	552,677	Jan. 7	311	83, 84	74	61
Tilden, James A., Hyde Park, assignor to Hersey Manufacturing Company, Boston, Mass. Fluid-atomizer	570,721	Nov. 3	556	129	77	741
Tilghman, Benjamin C., Jr., Philadelphia, Pa. Apparatus for preventing collisions on electric railways	573,496	Dec. 22	2531	600	77	1811
Tilghman, Noah J., Palatka, Fla. Shingle-edging machine	556,169	Mar. 10	1222	285	74	1375
Tilley, Edwin F., New York, N. Y. Folding cot	554,098	Feb. 4	547	121 122	74	604
Tilley, Edwin F., New York, N. Y. Bedstead-fastening	563,099	June 30	3607	865	75	2132
Tilley, John S., West Troy, and F. C. Lovejoy, Albany, N. Y., said Lovejoy assignor to said Tilley. Ladder-hook	560,242	May 19	1656	377	75	1059
Tillinghast, Frederick. (See Van Guysling, Walter F., assignor.)						
Tillison, Hosea R. (See Lawrence and Tillison.)						
Tillman, Byron J. (See Wilhelm, Walter L., assignor.)						
Tilman, Humphrey D. (See Miller and Tilman.)						
Tilton, Wilfred R., Prairie Depot, Ohio. Cotter-pin press	569,527	Oct. 13	1392	328	77	279
Tilyou, George C., Brooklyn, and J. M. A. Lacomme, New York, N. Y. Aquatic exercising apparatus	567,056	Sept. 1	569	133	76	1389
Timewell, Arthur T., assignor to A. Dickinson, Chicago, Ill. Machine for filling and sewing sacks	562,438	June 23	2406	584 585	75	1883
Timmons, Louis H., assignor to L. B. Bernei and M. Laupheimer, Baltimore, Md. Derrick	565,708	Aug. 11	1388	338	76	695
Timmerman, George. (See Seneff, Albert, assignor.)						
Timmerwille, Frank J. (See Redeker and Timmerwille.)						
Timmons, Joseph W., Clallam, Wash. Hair-pin	574,288	Dec. 29	4017	953	77	2100
Timms, E. D., et al. (See Buchtel, Joseph, assignor.)						
Timms, Harvey N., Des Moines, Iowa. Movable stand for bicycles	563,819	July 14	935	237	76	202
Timms, Harvey N., Des Moines, Iowa. Movable stand for bicycles	568,053	Sept. 22	2322	561	76	1753
Timms, James, Columbus, Ohio. Car-coupling	559,005	Apr. 28	2-16	637	75	542
Timms, James, Columbus, Ohio. Safety attachment for car-couplings	570,650	Nov. 3	431	102	77	718
Timms, James, assignor to Buckeye Malleable Iron and Coupler Company, Columbus, Ohio. Car-coupling	554,746	Feb. 18	1664	392	74	848
Timms, James, assignor to Buckeye Malleable Iron and Coupler Company, Columbus, Ohio. Car-coupling	566,550	Aug. 25	2905	708	76	1217
Timpson, Frederick C., and R. F. Rankin, assignors of one-third to A. H. Gillingham, Philadelphia, Pa. Signaling system for railways	568,644	Sept. 29	3379	809 810	76	1967
Tiner, John F., Sutherland Springs, assignor of three-eighths to E. J. Newton, Austin, Tex. Wrench	573,313	Dec. 15	2181	520	77	1728
Tinkham, Francis M., Springfield, Mass. Post-and-rail connection for metallic bedsteads	565,709	Aug. 11	1390	339	76	895
Tinkle, Jesse C. (See Manritzen and Tinkle.)						
Tinnerholm, August F. (See Snyder and Tinnerholm.)						
Tinsley, George W., Columbus, Ind. Wire-splicing tool	561,143	June 2	115	31	75	1389
Tinsman, Charles M., Luray, and S. S. Ball, Kahoka, Mo. Wire-fence tool	566,249	Aug. 18	2338	573	76	1095
Tippett, Harold P., Columbus, Ohio. Lubricator	556,074	Mar. 10	1049	249 250	74	1343
Tipton, Charles E., et al. (See Garred, Ulysses A., assignor.)						
Tirard, Joseph L., Caen, France. Fire-extinguishing apparatus	569,686	Oct. 20	1703	403	77	352
Tirmann, Hugo, assignor to B. Patterson, Cleveland, Ohio. Track-sanding device for locomotives	554,747	Feb. 18	1666	393	74	848
Tirmann, Hugo, assignor to B. Patterson, Cleveland, Ohio. Track-sanding apparatus	557,723	Apr. 7	352	82	75	67
Tirmann, Hugo, assignor to B. Patterson, Cleveland, Ohio. Track-sanding device for locomotives	557,724	Apr. 7	353	82	75	67
Tirmann, Hugo, assignor to B. Patterson, Cleveland, Ohio. Track-sanding device for locomotives	557,725	Apr. 7	354	83	75	68
Tirmann, Hugo, assignor to B. Patterson, Cleveland, Ohio. Track-sanding device for locomotives	559,006	Apr. 28	2616	637	75	543
Tirmann, Hugo, assignor to B. Patterson, Cleveland, Ohio. Track-sanding device for locomotives	559,007	Apr. 28	2617	637	75	543
Tirmann, Hugo, assignor to B. Patterson, Cleveland, Ohio. Blast-controlling valve for track-sanding apparatus	562,049	June 16	1755	424	75	1746

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Tisdale, Charles D., Boston, Mass., assignor to J. D. Gould, Brooklyn, N. Y., and C. A. Hanson, East Orange, N. J. Electrical fire-alarm system.....	565,053	Aug. 4	151	36	76	646
Tisdale, Charles D., Boston, Mass., assignor to J. D. Gould, Brooklyn, N. Y., and C. A. Hanson, East Orange, N. J. Automatic electric fire-alarm.....	565,188	Aug. 4	447	107	76	699
Tise, Charles H., and J. D. King, Winston, N. C. Cigar-vending machine.....	566,250	Aug. 18	2340	573 574	76	1095
Tisner, Paul G., New York, N. Y. Electric switch.....	559,916	May 12	1044	232	75	892
Title and Improvement Company. (See Ambler, Arthur A., assignor.)						
Tittmann, Franz, Podersam, Austria-Hungary. Gun-barrel.....	559,550	May 5	347	83	75	750
Titus, Herbert B., New York, N. Y., and H. J. Knapp, East Dover, Vt. Hinge.....	563,432	July 7	334	75	76	66
Titus, John C., New Bremen, Ohio. Steam-boiler.....	564,346	July 21	1949	459	76	390
Titus, John T., San Francisco, Cal. Sewer-trap and flushing-gate.....	572,078	Nov. 24	2951	694	77	1250
Titus, Silas W., Brooklyn, N. Y., assignor, by mesne assignments, to Pneumatic Engineering Company, of West Virginia. Apparatus for using compressed air to elevate water.....	566,102	Aug. 18	2108	514	76	1050
Titus, Warren, Kelly's Island, Ohio. Scissors-sharpener.....	561,926	June 9	1334	371	75	1625
Tivy, William H., and J. E. Hill, assignors to American Roll Paper Company, St. Louis, Mo. Twine-holder.....	558,437	Apr. 14	1639	394	75	327
Tjerneld, Ivar, Munkfors, Sweden. Feeding apparatus for horseshoe-nail machines.....	555,715	Mar. 3	389	91	74	1199
Toal, David D., New York, N. Y. Shoe.....	563,629	July 7	662	154	76	124
Toal, David D., New York, N. Y. Elevated-railway structure.....	564,854	July 28	2822	674	76	567
Toan, Fred W., Portage, Ohio. Combined hame and neck-yoke.....	564,236	July 21	1764	412	76	358
Tobe, Frederick E., assignor to A. Cole, Baltimore, Md. Sand-box and mechanism for operating piano.....	565,578	Aug. 11	1165	279	76	851
Toben, George C., Bay City, Mich. Device for cooling hot boxes.....	570,519	Nov. 3	148	36	77	665
Tobey, Alonzo J., Elmira, N. Y. Incubator.....	566,429	Aug. 25	2682	655	76	1176
Tobey, Fred W., Grand Rapids, Mich. Desk-support.....	555,293	Feb. 25	2661	622	74	1050
Tobey, Fred W., Grand Rapids, Mich. Door-catch.....	573,372	Dec. 15	2275	543	77	1746
Tobey, Fred W., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Autographic register.....	554,748	Feb. 18	1668	393 394	74	849
Tobey, Horace P., Wareham, and G. B. Thayer, Boston, Mass. Ore-concentrator.....	560,552	May 19	2197	502	75	1153
Tobey, William B., and H. W. Smith, Pittsfield, Mass. Circuit-breaker.....	565,244	Aug. 4	576	134	76	721
Tobin, James A., Lancaster, Ohio. Office-indicator.....	571,585	Nov. 17	2045	487	77	1060
Tobin, M. A., et al. (See Reynolds, Dexter, assignor.)						
Tobiason, Hans, Chicago, Ill. Harness saddle.....	559,917	May 12	1045	233	75	892
Toch, Lucas. (See Heilmann, Salomon, assignor.)						
Todd, Alexander, Knox City, Mo. Farm-gate.....	552,937	Jan. 14	846	204	74	173
Todd & Co., Edward. (See Freer, Charles S., assignor.)						
Todd, Emma L. (See Parker and Todd.)						
Todd, Ferd. (See Campbell, William, assignor.)						
Todd, George N., trustee. (See Gaskill, Daniel W., assignor.)						
Todd, Henry H. (See Hall, Mary E., assignor.)						
Todd, James, assignor to Challenge Wind Mill and Feed Mill Company, Batavia, Ill. Metal tower.....	569,687	Oct. 20	1705	403	77	352
Todd, Libanus M., and J. J. Leary, assignors to Loewer Sole-Rounder Company, Rochester, N. Y. Sole-rounding machine.....	558,004	Apr. 7	873	221 222	75	165
Todd, Marquis J., Buffalo, N. Y. Spring-tooth harrow.....	556,290	Mar. 10	1474	343	74	1422
Todd, Robert T. (See Walsh and Todd.)						
Todd, Walter, Paterson, N. J. Loom-shuttle.....	568,929	Oct. 6	358	82	77	80
Toellner, Karl F., Bremen, Germany. Air drying apparatus.....	562,938	June 30	3302	796 797	75	2072
Toepper, Richard, Naumburg-on-the-Saale, Germany. Type-writing machine.....	571,414	Nov. 17	1746	416 417	77	1006
Toerring, Christian, Jr. (See Spencer and Toerring.)						
Tolcott, William A., et al. (See Nelson, Alfred, assignor.)						
Toler, Edward W. (See Kayser, William J., assignor.)						
Toler, Henry W., Massey, Tex. Clothes-pounder.....	573,314	Dec. 15	2182	521	77	1729
Tolf, Victor, assignor of one-half to S. P. Saaf, Chicago, Ill. Window-lock.....	563,820	July 14	996	237	76	203
Tolle, Morris, St. Louis, Mo. Face-protector.....	557,625	Apr. 7	166	43	75	33
Tollefson, Jefferson, St. Ansgar, Iowa. Sieve-holder.....	564,855	July 28	2824	674	76	567
Tolley, Henry, Birmingham, England. Time-fuse for shells.....	557,454	Mar. 31	3514	840	74	1859
Tollner, Charles, Pulaski, N. Y. Box-fastener.....	564,661	July 28	2488	587	76	508
Tollner, Charles, Pulaski, N. Y. Pen and pencil case.....	565,710	Aug. 11	1391	339	76	895
Tolman, Fred S. (See Goddard, George O., assignor.)						
Tolman, James P. (See Martin and Tolman.)						
Tolman, James P., Newton, assignor to Samson Cordage Works, Boston, Mass. Lacing-cord.....	573,249	Dec. 15	2044	490	77	1705
Tolmie, Robert C. (See Lobdell and Tolmie.)						
Tolson, Jacob L. (See Stauffer and Tolson.)						
Tomey, Francis S., Birmingham, England. Manufacture of thermometer-tubing.....	568,591	Sept. 29	3284	788	76	1948
Tomkins, Alfred S., assignor to Military Equipment Stores and "Tortoise" Tents Company, Limited, London, England. Portable cooking-stove.....	560,445	May 19	2026	463	75	1124
Tomkins, Mark H., New York, N. Y. Apparatus for estimating textile fabrics.....	552,596	Jan. 7	157	44	74	31
Tomkins, Mark H., New York, N. Y. Testing-machine.....	552,597	Jan. 7	160	44, 45	74	32
Tomkins, Mark H., New York, N. Y. Yarn-testing machine.....	570,970	Nov. 10	992	230	77	851
Tomlinson, Albert R., Severy, Kans. Metal-punching machine.....	553,370	Jan. 21	1605	383	74	328
Tomlinson, Charles E., Syracuse, N. Y. Wheel.....	560,660	May 26	2442	559	75	1214
Tomlinson, Charles E., assignor of one-half to E. Laass, Syracuse, N. Y. Wheel-hub.....	554,464	Feb. 11	1191	277	74	741
Tomlinson, Charles E., assignor of one-half to E. Laass, Syracuse, N. Y. Bicycle-frame.....	554,465	Feb. 11	1192	277	74	742
Tomlinson, James K., assignor of two-fifths to E. D. Harvey, Terre Haute, Ind. Automatic bicycle-pump.....	561,628	June 9	1013	243	75	1587
Tomlinson & Stahl. (See Stahl, Harry E., assignor.)						
Tompkins, Edward B., et al. (See Marquart, Rudolf, assignor.)						
Tonge, John, et al. (See Williams, Frederick W., assignor.)						
Tonkin, John J., Oswego, N. Y. Steam-boiler.....	556,909	Mar. 24	2551	601	74	1655
Tonner, William E. (See Lindsay, Tonner, and Lowmiller.)						
Toof, Edwin J. (See Ammermann, William M., assignor.)						
Toof, Edwin J., New Haven, Conn. Sewing-machine.....	570,722	Nov. 3	557	129	77	741
Toohy, Anthony. (See Toohy, Thomas, assignor.)						
Toohy, Thomas, assignor of one-half to A. Toohy, Gaytown, Mich. Hay or stock rack.....	555,347	Feb. 25	2750	644	74	1067
Toomer, Whitfield P., Wilmington, N. C. Trestle-liner or power-jack.....	558,121	Apr. 14	1096	268	75	224
Toops, Emory D., Indianapolis, Ind. Apparatus for operating hatchway-doors.....	560,010	May 12	1211	269 270	75	925
Toops, Emory D., Indianapolis, Ind. Churn.....	563,100	June 30	3608	865	75	2133

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Topham, Thomas A., Aspen, Colo. Ore-sampler	563,101	June 30	3609	866	75	2133
Topliff, Willard, Youngs, N. Y. Combination-tool	559,231	Apr. 28	3076	742	75	629
Topping, Alfred S., Hart, Mich., assignor of one-half to F. A. Luther. Interchangeable weeder and raker	572,935	Dec. 8	1486	357	77	1583
Topping, Charles P., Poughkeepsie, N. Y. Multiple-spindle lathe	573,726	Dec. 22	2954	698 699 749 250	77	1891
Topping, James R., Hartford, Conn. Center-square	554,402	Feb. 11	1068	249 250	74	718
Topping, James R., Hartford, Conn. Gaging and scribing tool	565,579	Aug. 11	1165	279	76	851
Topping, James R., and W. H. Honiss, Hartford, Conn.; said Honiss assignor to said Topping. Recessing-tool	554,466	Feb. 11	1193	278	74	742
Toquet, Benjamin L., Westport, Conn. Electrical connector	557,037	Mar. 24	2777	660	74	1699
Toquet, Benjamin L., Westport, Conn. Pliers or similar tool	562,260	June 16	2103	510	75	1810
Toquet, Benjamin L., Westport, Conn. Testing-joint for electric conductors	562,261	June 16	2104	510	75	1810
Toquet, Benjamin L., Westport, Conn. Electrical connector	563,695	July 7	772	182	76	145
Torbert, Alfred C., Austin, Ill. Rubber boot or shoe	569,125	Oct. 6	695	162	77	132
Torchiani, Harry, Brooklyn, N. Y. Apparatus for racking off beer	558,438	Apr. 14	1640	395	75	327
Torney, Julius L., Milwaukee, Wis. Book-carrying device	570,520	Nov. 3	149	36	77	666
Torpey, John J., et al. (See McClellan and Girling, assignors.)						
Torrance, Albert M. (See Davis and Torrance.)						
Torrance, Thomas, Bitton, and J. H. Howell, Bristol, England. Machine for straining paper-pulp, &c.	553,945	Feb. 4	263	57, 58	74	553
Torrey, Jay L., Embar, Wyo. Self-adjusting horse-collar	568,887	Oct. 6	295	68	77	57
Totham, James, assignor to Peck Bros. & Company, New Haven, Conn. Combination supply and waste fixture for washbasins	553,699	Jan. 28	2167	512	74	448
Totham, James, assignor to Peck Bros. & Company, New Haven, Conn. Reversible stop and waste cock	568,181	Sept. 22	2551	614	76	1798
Totham, James, assignor of one-half to J. M. Peck, New Haven, Conn. Coupling for water-closets	568,996	Oct. 6	491	111	77	94
Totman, Edsell, La Grange, Ill. House construction	557,726	Apr. 7	356	83	75	68
Toulmin, Charles T., New York, N. Y. Boiler	554,383	Feb. 11	1039	241 242	74	713
Tournier, Julius C., Schenectady, N. Y., assignor to General Electric Company, of New York. Socket for incandescent lamps	559,232	Apr. 28	3077	742 743	75	629
Tourtellotte, Leuteller H. (See Miller, Israel F., assignor.)						
Tousley, Edgar M., Jamestown, N. Y., assignor to Tousley Harvester Company. Self-binding harvester	572,585	Dec. 8	871	210 211	77	1463
Tousley Harvester Company. (See Tousley, Edgar M., assignor.)						
Toussaint, Emile, Berlin, Germany. Field-glass	569,528	Oct. 13	1393	328 329	77	279
Toward, Charles P., Putnam, Conn. Insulator-support	565,944	Aug. 18	1828	444	76	966
Tower, A. J., trustee. (See Palmer, Roscoe A., assignor.)						
Tower, Clinton A., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-coupling	557,917	Apr. 7	692	165 166	75	131
Tower, Clinton A., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-coupling	557,918	Apr. 7	694	166	75	131
Tower, Clinton A., assignor to National Malleable Castings Company, Cleveland, Ohio. Wheel	558,327	Apr. 14	1438	354	75	290
Tower, Clinton A., assignor to National Malleable Castings Company, Cleveland, Ohio. Chain-clevis	563,213	June 30	3800	911	75	2169
Tower, Daniel W., Grand Rapids, Mich. Tooth-brush	570,573	Nov. 3	261	65	77	686
Tower, Dewitt C., Cheneyville, La. Governor	563,433	July 7	337	76	76	66
Tower, George A., assignor of one-half to G. R. Jarman, Richmond, Va. Speed and direction indicator	564,168	July 14	1656	387	76	324
Tower, Levi L. (See Worthen, Julius E., assignor.)						
Tower, Warren M. (See Lavigne, Joseph P., assignor.)						
Tower, William G., assignor of one-half to A. B. Burnett, Murietta, Cal. Snap-hook	553,795	Jan. 28	2319	550	74	477
Towery, William H., Shady Grove, Ky. Back-band	560,011	May 12	1213	270	75	925
Towle, Charles B., Vallejo, Cal. School-desk	553,631	Jan. 28	2044	484	74	426
Towle, Elmer E., Richmond, Ind., assignor to Hoosier Drill Company, of Indiana. Corn-planter	555,749	Mar. 3	447	106	74	1210
Towler, William, Leeds, England. Compound tramway-rail	571,709	Nov. 17	2255	541	77	1099
Town, Joseph I. (See Miller, Charles H., assignor.)						
Town, Samuel P. (See Springer, James J., assignor.)						
Towne, Allan W., Pomona, Cal. Irrigating plant	572,842	Dec. 8	1325	319	77	1550
Towns, Albert O., Hudson, N. H. Sewing-machine	565,816	Aug. 11	1581	385 386	76	930
Townsend, Charles W. (See Roney and Townsend.)						
Townsend, Charles W., Sewickley, Pa. Steam-boiler	564,037	July 14	1403	326	76	275
Townsend, Frank B., assignor of one-half to G. H. Martin, Geneva, N. Y. Sash-fastener	561,927	June 9	1535	372	75	1685
Townsend, Frank P. (See Shover and Townsend.)						
Townsend, George, Greenville Centre, N. Y. Horse-detacher	566,946	Sept. 1	361	84	76	1351
Townsend, William T. A., et al. (See Bennum, George W., assignor.)						
Towsley, David B. (See Gregory, Charles A., assignor.)						
Towsley, John T., Cincinnati, Ohio. Glue-heater	553,946	Feb. 4	265	58	74	554
Towson, Charles M., et al. (See Miller, John D., assignor.)						
Toye, William H. R., assignor to himself, R. P. Brown, and E. L. Bailey, Philadelphia, Pa. Printing-press	557,626	Apr. 7	167	44	75	33
Toye, William H. R., assignor to himself, R. P. Brown, and E. L. Bailey, Philadelphia, Pa. Printing-machine	571,415	Nov. 17	1748	417	77	1006
Tozer, William, F. B. and H. Stanton, London, England. Wheel	553,295	Jan. 21	1476	355	74	304
Trabue, William, assignor to C. Pope, Louisville, Ky. Lantern for bicycles	564,662	July 28	2489	588	76	508
Trachsel, John C. E. (See Trachsel, John C. F. and J. C. E.)						
Trachsel, John C. F. and J. C. E., Stockton, N. J. Device for holding spools, balls, or skeins of yarn, &c.	556,592	Mar. 17	2017	471	74	1538
Tracy, James B., Meriden, Conn. Apparatus for producing music-rolls	570,352	Oct. 27	2921	694	77	590
Tracy, John D., Sterling, Ill. Circular cutter	570,828	Nov. 3	746	170	77	777
Tracy, John D., and J. F. Platt, Sterling, Ill. Fodder-shredder	557,727	Apr. 7	359	83	75	63
Tracy, John D., and J. F. Platt, Sterling, Ill. Cornstalk-shredder and snapping-machine	571,057	Nov. 10	1136	266	77	879
Tracy, Lewis W., Brooklyn, N. Y. Sewing-machine	559,637	May 5	492	113	75	776
Tracy, Milton S., et al. (See White, Albert, assignor.)						
Trafton, William G., assignor of two-thirds to L. Nichols and A. L. Hornburg, Fairfax, Minn. Windmill	559,876	May 12	970	215 216	75	879
Trainor, John J., New York, N. Y. Combined excavator and conveyer	564,727	July 28	2606	621	76	528

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Trainer, Peter. (See Dodge, Jasper L., assignor.)						
Tramblay, Felix, Chicago, Ill. Shoulder-brace and suspenders	555,272	Feb. 25	2615	613	74	1041
Tramblay, Felix, Chicago, Ill. Box-fastener	564,347	July 21	1950	460	76	390
Trancé-Armand, Jean, Toronto, Canada. Combined bicycle and vehicle	559,761	May 5	712	168	75	816
Traphagen, William H., assignor to Emerson, Talcott & Co., Rockford, Ill. Horse hay-rake	564,663	July 28	2491	588 589 266 267	76	508
Trapp, Edward A., New York, N. Y. Dump-car	571,058	Nov. 10	1138	267	77	879
Trask, Clarence S. (See Jacques and Trask.)						
Traut, John Jr., Milwaukee, Wis. Wrench	555,716	Mar. 3	391	91	74	1200
Traun, Heinrich, Hamburg, Germany. Comb.	564,460	July 21	2145	501	76	425
Traut & Hine Manufacturing Company. (See Adams, George E., assignor.)						
Traut, Justus A., New Britain, Conn. Scraping-tool	553,879	Feb. 4	126	25	74	529
Traut, Justus A., New Britain, Conn. Spokeshave and rabbet-plane	555,228	Feb. 25	2531	597	74	1025
Traut, Justus A., New Britain, Conn. Core-box plane	556,114	Mar. 10	1115	265	74	1355
Traut, Justus A., New Britain, Conn. Apparatus for adjusting spirit-levels	565,096	Aug. 4	251	61	76	663
Traut, Justus A., New Britain, Conn. Level	565,097	Aug. 4	253	61	76	663
Traut, Justus A., New Britain, Conn. Level	565,098	Aug. 4	255	61	76	663
Traut, Justus A., and C. Bodmer, New Britain, Conn. Machine for graduating glasses or tubes	562,678	June 23	2809	682	75	1958
Traut, Justus A., and C. Bodmer, New Britain, Conn. Marking level-glasses or analogous articles	562,679	June 23	2812	683	75	1959
Traut, Justus A., and E. A. Schade, assignors to Stanley Rule and Level Company, New Britain, Conn. Miter or bevel plane	553,322	Jan. 21	1519	364	74	312
Travers, Lawrence S., assignor of two-thirds to G. R. Brown, Palmyra, and W. A. Judd, Clifton Springs, N. Y. Meat-hanger	569,142	Oct. 6	729	171	77	138
Travers, Vincent P. (See Efros, Charles, assignor.)						
Traves, Webster F., assignor of two-thirds to G. W. and W. A. Irvine, Detroit, Mich. Safety-gate for elevators	560,306	May 19	1777	405	75	1079
Travis, Charles L., Minneapolis, Minn. Lawn-sprinkler	573,933	Dec. 29	3316	792	77	1973
Travis, Charles L., assignor to W. Y. Chute, Minneapolis, Minn. Power-transmitter	556,385	Mar. 17	1645	385	74	1469
Travis, Charles L., Minneapolis, Minn., assignor to Hygienic Wheel Company, Philadelphia, Pa. Bicycle or like vehicle	564,319	July 21	1904	449 450	76	382
Travis, Charles L., Minneapolis, Minn., assignor to Hygienic Wheel Company, Philadelphia, Pa. Bicycle or like vehicle	564,546	July 21	2275	534	76	449
Travis, William H., Philadelphia, Pa. Type-writing machine	557,728	Apr. 7	360	84, 85	75	68
Treadgold, George H., and J. E. Mills, Port Huron, Mich. Grain-car door	568,182	Sept. 22	2553	614	76	1798
Treadgold, George H., and J. E. Mills, Port Huron, Mich. Grain-car door	568,183	Sept. 22	2554	615	76	1798
Treasure, Frank R., Brooklyn, N. Y. Toy	569,728	Oct. 20	1788	425	77	366
Treat, Egbert W. (See Scheidler, John, assignor.)						
Treat, Francis H., Chicago, Ill. Draft-regulator	569,254	Oct. 13	930	222 223	77	193
Treat, James E., Boston, assignor to United States Tubular Bell Company, Methuen, Mass. Tubular bell	568,816	Oct. 6	175	42	77	35
Treat, Joseph A., Stuart, Iowa. Cash register, indicator, and recorder	561,837	June 9	1391	333 334	75	1657
Trede, Harder, Durant, Iowa. Windmill-pump regulator	560,243	May 19	1658	377	75	1059
Tregurtha, Alfred T., Everett, Mass., assignor, by mesne assignments, to Boynton Manufacturers' Supply Company, Portland, Me. Machine for applying metal coverings to spool-heads	557,729	Apr. 7	369	86, 87	75	70
Treharne, Frederick G. (See Whitaker and Treharne.)						
Treibus, John, New York, N. Y. Table implement	555,627	Mar. 3	248	57	74	1175
Treichler, Heinrich, Wollishofen, Switzerland. Washing-machine	555,591	Mar. 3	179	42	74	1163
Treitl, Moritz. (See Tresenreuter, Gustav, assignor.)						
Trelles Blanco, Amador, Havana, Cuba. Hygienic chamber	558,765	Apr. 21	2195	528 529	75	446
Tremaine, Harry B., assignor to Eolian Company, New York, N. Y. Stop-indicator for musical instruments	572,666	Dec. 8	1015	245	77	1491
Tremaine, William B., and R. W. Pain, New York, N. Y. Mechanical musical instrument	552,796	Jan. 7	546	133 134	74	103
Treman, Lafayette L., Ithaca, N. Y. Safe	559,111	Apr. 28	2805	679	75	581
Treman, Lafayette L., Ithaca, N. Y. Safe-wall	559,112	Apr. 28	2807	679	75	581
Tremblay, Marcel, assignor of one-half to P. Lussier, Jr., Springfield, Mass. Railway-switch	566,281	Aug. 18	2385	585	76	1103
Tremblay, Benjamin F., Holden, Mo. Reel-carrier	565,054	Aug. 4	153	36	76	646
Trendel, Jens A., Kulmbach, Germany. Collar-button	552,626	Jan. 7	209	57	74	41
Trendel, Jens A., Berlin, Germany. Automatic lighting and ejecting match-box	561,361	June 2	527	133	75	1471
Trenkle, Jacob, Portville, N. Y. Hoof-spreader	557,455	Mar. 31	3515	840	74	1859
Trenta, Hyacinthe, Lyons, France. Step for vertical shafts	572,282	Dec. 1	342	82	77	1345
Trenta, Hyacinthe, Lyons, France. Turbine	572,667	Dec. 8	1016	246	77	1492
Trenton Iron Company. (See De Camp, Alfred H., assignor.)						
Trenton Iron Company. (See Dickinson, Joseph H., assignor.)						
Trentowsky, Albert E., St. John, Canada. Fish-plate lock	554,156	Feb. 4	657	148	74	625
Trepte, Alfred H. C., St. Paul, Minn. Sliding-door lock	573,934	Dec. 29	3317	792	77	1974
Trescott, Stephen O., Pittsburg, Kans. Mucilage-bottle	572,079	Nov. 24	2953	695	77	1250
Tresenreuter, Gustav, assignor to M. Treitel, Berlin, Germany. Station-indicator	552,797	Jan. 7	553	134	74	105
Treverton, William, Ivanhoe, Va. Plunger-pump	562,939	June 30	3304	797	75	2072
Trevette, Wentworth G., assignor of one-half to L. W. Winchester, Chicago, Ill. Sheet-separating and feeding machine	562,866	June 30	3167	767 768	75	2043
Trevette, Wentworth G., assignor of one-half to L. W. Winchester, Chicago, Ill. Paper-feeding machine	562,867	June 30	3174	768 769	75	2046
Trewhella, William, Meriden, Conn. Portable mill for reducing crackers to powder	568,997	Oct. 6	492	111	77	94
Tribe, George T., Worcester, Mass. Railway-car	554,900	Feb. 18	1945	457 458	74	901
Trier, Frank, London, England. Machinery for working stone, &c.	558,439	Apr. 14	1642	395	75	328
Trigg, Lewis B., Powhatan Point, Ohio. Bait-bucket	574,049	Dec. 29	3540	845	77	2015
Trim, George, and J. F. Pryor, assignors of one-third to J. Pryor, Houghton, Mich. Dipper-tooth for steam dredgers and excavators	564,664	July 28	2492	589	76	509
Trimble, James. (See Wellman, Harlan P., assignor.)						
Trimborn, Anna. (See Trimborn, Peter W., assignor.)						
Trimborn, Peter W., assignor of one-half to A. Trimborn, Milwaukee, Wis. Safety device for elevators	573,935	Dec. 29	3319	792	77	1974
Trinder, Lizzie. (See Phinney and Trinder.)						
Tripp, Benjamin F. (See Davis, Milton G., assignor.)						
Tripp, Henry A. and W. Sodus, N. Y. Apple-parer	572,689	Dec. 8	1056	257	77	1499
Tripp, Seth D., Lynn, Mass. Edge-finishing machine	566,819	Sept. 1	132	32	76	1306

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Tripp, Seth D., Lynn, Mass. Edge-finishing machine. (Reissue).....	11,580	Dec. 29	4146	{ 984 985 }	77	2124
Tripp, Walter. (See Tripp, Henry A. and W.)						
Tripp, Sylvanus L., New York, N. Y. Electric-lighting system	555,192	Feb. 25	2473	585	74	1016
Trisler, John R., Westwood, assignor of one-half to M. A. McDevitt, Hyde Park, Ohio. Closure for bottles, vessels, &c	568,120	Sept. 22	2449	588	76	1778
Troast, William F., assignor to Slaymaker-Barry Company, Lancaster, Pa. Lock	565,648	Aug. 11	1291	312	76	875
Troast, William F., assignor to Slaymaker-Barry Company, Lancaster, Pa. Padlock	572,586	Dec. 8	876	212	77	1464
Trobach, Konrad O. E., Pankow, Germany, assignor of one-half to S. Bergmann, New York, N. Y. Incandescent lamp	558,122	Apr. 14	1097	268	75	225
Troendle, Theodore R., <i>et al.</i> (See Ferres, Ainslie W., assignor.)						
Trojan Button Fastener Company. (See Ham, Albert W., assignor.)						
Trojan Car Coupler Company. (See McKeen, Thomas L., assignor.)						
Trojan Car Coupler Company. (See McKeen and Renshaw, assignors.)						
Trost, Hugo J., Olneyville, R. I. Tension-regulator for yarn-beams	565,945	Aug. 18	1828	444	76	996
Trost, William D. F. H., Chicago, Ill. Device for preventing injury to colliding vessels ..	565,614	Aug. 11	1223	295	76	862
Trott, Joseph S. (See Brooke and Trott.)						
Trotz, Johan O. E., Worcester, Mass. Apparatus for casting ingots	560,661	May 26	2444	{ 559 560 }	75	1215
Trounstone, John. (See Frank, David, assignor.)						
Troutman, Adam R., Millerstown, Pa. Harrow	573,315	Dec. 15	2183	521	77	1729
Troutman, John J. (See Shearer, Joseph, assignor.)						
Troutwine, George F. (See McDonald, James, assignor.)						
Trowbridge, Charles W., Chicago, Ill., assignor to Sneed & Co. Iron Works, Louisville, Ky. Book-stack	565,189	Aug. 4	449	{ 107 108 }	76	700
Trowbridge, John H., Newark, N. J. Thread-pull-off device for sewing-machines	557,730	Apr. 7	374	87	75	71
Troxell, John W. (See Turner, John E., assignor.)						
Troxler, George W., Richmond, Va. Piston-rod packing	567,208	Sept. 8	826	196	76	1450
Troy, Daniel W., Montgomery, Ala. Automatic car-signal	574,182	Dec. 29	3809	909	77	2061
Troy, Robertus F. (See Hicks and Troy.)						
Troyer, Nelson, assignor of one-half to F. P. Kendall, Astoria, Oreg. Can-soldering machine	571,627	Nov. 17	2113	{ 507 508 }	77	1073
Troyke, Albert H., Chicago, Ill. Cabinet for sewing-machines	560,380	May 19	1906	{ 433 434 }	75	1102
Truby, Jacob M. (See Thomas and Truby.)						
Trucks, Benjamin H., Caldwell, Kans., assignor of one-half to W. G. Williams, Minco, Ind. Ter. Oscillating-piston engine	552,798	Jan. 7	554	134	74	105
Trudeau, Joseph A. G., Ottawa, Canada. Alternating electric motor	561,144	June 2	116	31, 32	75	1390
True, David, Amesbury, Mass. Oil-can	553,726	Jan. 28	2219	526	74	458
Truelsens, Carsten, Loup City, Nebr. Clothes-line or wire tightening device	567,367	Sept. 8	1139	273	76	1504
Trueman, William, New Haven, Conn., assignor to E. & H. T. Anthony & Company, New York, N. Y. Curtain-slide camera attachment	569,895	Oct. 20	2064	491	77	416
Truesdell, Allison D. and W. K., Warren, Ohio. Folding chair	564,575	July 21	2340	550	76	460
Truesdell, Herbert J., <i>et al.</i> (See Cox, Frank S., assignor.)						
Truesdell, Walter K. (See Truesdell, Allison D. and W. K.)						
Truex, Charles O., New York, N. Y. Game device	571,464	Nov. 17	1833	437	77	1023
Trufant, Walker E. (See Ford, Samuel D., assignor.)						
Truitt, John H., <i>et al.</i> (See Bennum, George W., assignor.)						
Trump Bros. Machine Company. (See Plumley, Raymond L., assignor.)						
Trump Brothers Machine Company. (See Frederick and Plumley, assignors.)						
Trussell, Emory A., assignor to Globe Manufacturing Company, Omaha, Nebr. Toy match-exploder	560,115	May 12	1421	319	75	965
Truxton, Joseph D., <i>et al.</i> (See Bennum, George W., assignor.)						
Tubbs, Amos C., Trading Post, Kans. Flooring and ceiling lever	571,810	Nov. 24	2448	583	77	1156
Tucker, Albert L. (See Oehring and Tucker.)						
Tucker, Albert L., assignor to Western Electric Company, Chicago, Ill. Apparatus for producing scenic effects	563,334	July 7	178	40	76	36
Tucker, Albert L. and F. H. Loveridge, assignors to Western Electric Company, Chicago, Ill. Circuit-re-establishing cut-out	563,335	July 7	180	40	76	37
Tucker, Clinger, Best, Ohio. Folding egg-crate	570,574	Nov. 3	262	65, 66	77	687
Tucker & Dorsey Manufacturing Company. (See Tucker, William H., assignor.)						
Tucker, Edwin D., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Lubricating device	569,847	Oct. 20	1989	474	77	402
Tucker, Frank S. (See Clinch, John C., assignor.)						
Tucker, Frederick D., St. Louis, Mo. Subsoil-plow	570,192	Oct. 27	2591	615	77	529
Tucker, Henry C. (See Tibbitt, Alton W., assignor.)						
Tucker, James D., Sierra Madre, Cal. Harness-anap	559,233	Apr. 28	3079	743	75	630
Tucker, Joseph J., <i>et al.</i> (See Billings, George W., assignor.)						
Tucker, Norman F., <i>et al.</i> (See Fowler, Charles M., assignor.)						
Tucker, Stephen D., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Stereotype-plate holder for cylinder printing-machines	568,054	Sept. 22	2323	{ 561 562 }	76	1753
Tucker, Stephen D., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Tripping-motion for printing-machines	573,425	Dec. 15	2390	{ 569 570 571 }	77	1768
Tucker, Thomas N., Celeste, Tex. Fence	571,937	Nov. 24	2687	636	77	1201
Tucker, William H., assignor to Tucker & Dorsey Manufacturing Company, Indianapolis, Ind. Caster	552,598	Jan. 7	164	45	74	32
Tucker, William H., assignor to Tucker & Dorsey Manufacturing Company, Indianapolis, Ind. Coat and hat rack	565,525	Aug. 11	1072	257	76	834
Tucker, William M., Nelsonpoint, Cal. Propeller	571,628	Nov. 17	2120	508	77	1074
Tuckey, Harry W., and A. Harris, San Francisco, Cal. Key retainer and locker	566,820	Sept. 1	134	33	76	1307
Tudor, Frederic, Boston, Mass. Steam and hot-water heater	559,551	May 5	348	84	75	750
Tuerk, Samuel O., Fulton, N. Y. Motor-driven fan	555,294	Feb. 25	2662	623	74	1050
Tuerk, Samuel O., Fulton, N. Y. Revolving fan	561,362	June 2	529	{ 133 134 }	75	1471
Tuerk, Samuel O., Fulton, N. Y. Motor-driven fan	570,651	Nov. 3	432	103	77	718
Tuffnell, Albert, Chicago, Ill. Fly-trap	557,919	Apr. 7	695	167	75	131
Tufts, Samuel F., Westbrook, Me. Trolley for electric cars	571,710	Nov. 17	2256	541	77	1099
Tuggle, S. R., <i>et al.</i> (See Fisk, Marston, assignor.)						
Tull, Viola J. (See Cloud and Tull.)						
Tullius, Julius, New York, N. Y. Driving-gear for bicycles	561,145	June 2	119	32	75	1390
Tullius, Julius, New York, N. Y. Bicycle	561,146	June 2	122	32	75	1390
Tulloch, Louis R., Angel's Camp, Cal. Ore-concentrator	561,629	June 9	1015	{ 243 244 }	75	1587
Tulloch, Louis R., Angel's Camp, Cal. Feed mechanism for ore-concentrators	561,630	June 9	1017	244	75	1587

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Tully, J. James. (See Fulcher, William H., assignor.)						
Tully, John W., St. Joseph, Mo. Match-safe	552,650	Jan. 7	263	71	74	51
Tully, William J., Crystal Falls, Mich. Car-ventilating mechanism	570,353	Oct. 27	2924	695	77	591
Tunison, William I., Paterson, N. J. Safety-pin	568,384	Sept. 29	2894	696	76	1878
Tupholme, Beeston, assignor to J. Baker & Sons, London, England. Coffee-roaster	558,123	Apr. 14	1097	268 269	75	225
Tupper, Avret G., Springfield, Mass. Car-coupling	553,371	Jan. 21	1607	383	74	328
Tupper, Melburn H., Erie, Pa. Brush	560,662	May 26	2450	561	75	1516
Turbeville, De Kalb, assignor of two-thirds to R. Brown and W. G. Floyd, Roanoke, Ala. Curtain-support	574,348	Dec. 29	4111	977	77	2118
Turbush, James H., New York, N. Y. Draft device for cars or other vehicles	553,438	Jan. 21	1709	408	74	348
Turk, Harry M., administrator. (See Du Vivier, Jules H.)						
Turkington, Alexander, Lafayette, Ind. Washing-machine for piece goods	573,936	Dec. 29	3321	793	77	1975
Turley, Aaron. (See Hardman and Turley.)						
Turnbull, Andrew, et al. (See Riecker, Charles E., assignor.)						
Turnbull, Frederick, Philadelphia, Pa. Warp-drying machine	574,289	Dec. 29	4018	953 954	77	2100
Turnbull, Joseph W., New Orleans, La. Shade-supporting device	554,552	Feb. 11	1323	310	74	766
Turner, Albert. (See Turner, Henry H., A., and A.)						
Turner, Albert, et al. (See Bradley, William, assignor.)						
Turner, Albert, et al. (See Whyatt, Henry J., assignor.)						
Turner, Arnold. (See Turner, Henry H., A., and A.)						
Turner, Arnold, et al. (See Bradley, William, assignor.)						
Turner, Arnold, et al. (See Whyatt, Henry J., assignor.)						
Turner Brass Works. (See Dobrick, August C., assignor.)						
Turner Brass Works. (See Noyes, William S., assignor.)						
Turner, Bryson M. (See Rinehart and Turner.)						
Turner, Charles E. (See Barhydt, James A., assignor.)						
Turner, Charles P., New York, N. Y. Scouring-brush for cleaning ships' bottoms	573,115	Dec. 15	1806	435	77	1662
Turner, Charles P., and D. L. Mekeel, Elyria, Ohio. Indicator reducing-motion for engines	555,668	Mar. 3	324	74	74	1188
Turner, Collatinus. (See O'Connor and Turner.)						
Turner, Cornelius S. (See Struble and Turner.)						
Turner, David D. (See O'Connor and Turner, assignors.)						
Turner, Edward A., Chicago, Ill. Rail bond or connection	557,174	Mar. 31	3005	717	74	1766
Turner, Edward H., assignor to J. S. Kearney, Minneapolis, Minn. Truck-platform for handling heavy articles	559,552	May 5	349	84	75	751
Turner, Ephraim M., Fort Worth, Tex. Stirrup	559,046	Apr. 28	2689	655	75	556
Turner, Fred H., Statesville, N. C. Pulley	565,526	Aug. 11	1073	258	76	834
Turner, Frederick W., Newton, and W. M. Chapman, Needham, Mass. Electric signaling apparatus	563,336	July 7	162	41	76	37
Turner, George D., Cleveland, Ohio, and G. W. Cummings, Monroe Centre, Mich.; said Turner assignor to said Cummings. Governor for propellers	573,116	Dec. 15	1807	436	77	1662
Turner, George E., Marion, Ohio. Track-cleaner for railways	573,842	Dec. 22	3148	750	77	1929
Turner, George W., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Web-printing press	572,283	Dec. 1	343	82, 83	77	1345
Turner, H. W. (See Hebgen, Max, assignor.)						
Turner, Henry. (See Ammons, Alfred M., assignor.)						
Turner, Henry. (See Stuart, Ithamer W., assignor.)						
Turner, Henry H., et al. (See Bradley, William, assignor.)						
Turner, Henry H., et al. (See Whyatt, Henry J., assignor.)						
Turner, Henry H., A., and A., Denton, England. Machine for trimming hat-brims	562,987	June 30	3401	817 818	75	2093
Turner, Henry H., A., and A., Denton, England. Hat-body-stretching machine	563,102	June 30	3611	866	75	2133
Turner, Howard A., Jr., Urbana, Ohio. Apparatus for treating dried fruits	571,100	Nov. 10	1236	287	77	896
Turner, Isaac J., Victoria, N. C. Nozzle for hose or sprinklers	556,291	Mar. 10	1475	343	74	1422
Turner, John E., assignor of one-half to J. W. Troxell, Greenville, Ohio. Wire-fence stay	558,534	Apr. 21	1807	438	75	375
Turner, John R. (See Turner, Kirby, and Turner.)						
Turner, Joseph R. (See Ward, Turner, and Kendall.)						
Turner, Moses R., Greensburg, assignor to C. L. White, Decatur county, Ind. Automatic drain for pumps	568,817	Oct. 6	176	42	77	35
Turner, Moses R., R. G. Kirby, and J. R. Turner, Adams, assignors to C. L. White, Decatur county, Ind. Pump	563,992	July 14	1326	310	76	261
Turner, Peter F., New York, N. Y. Ball-bearing	567,013	Sept. 1	492	114	76	1375
Turner, Samuel J., and C. T. Glasser, assignors of one-fourth to H. J. Glasser, Minneapolis, Minn. Pants-leg guard	569,945	Oct. 20	2161	512	77	435
Turner, Thomas L., et al. (See Frankel, Julius, assignor.)						
Turner, Will S., Greenville, S. C. Graining-tool	567,523	Sept. 8	1379	332	76	1548
Turner, William, Wilkinsburg, Pa. Nut-lock	570,354	Oct. 27	2926	695	77	591
Turner, William A., assignor to E. Converse, Worcester, Mass. Slow-closing faucet	557,292	Mar. 31	3238	776	74	1805
Turner, William A., assignor to E. Converse, Worcester, Mass. Sheet-metal knob	558,862	Apr. 21	2359	575	75	476
Turner, William A., assignor to E. Converse, Worcester, Mass. Self-closing faucet	570,306	Oct. 27	2850	676	77	577
Turner, William A., assignor to Chicago Cotton Picker Company, Chicago, Ill. Cotton-picking machine	572,493	Dec. 1	704	168 169 170	77	1412
Turner, William B., assignor to S. Insull, Chicago, Ill. Clarifier for liquids	556,593	Mar. 17	2018	471	74	1539
Turner, William H., Indianapolis, Ind. Heater	558,124	Apr. 14	1100	269	75	225
Turner, William M., Woodland, assignor of one-half to G. G. Wickson, San Francisco, Cal. Cheese-making	567,522	Sept. 8	1378		76	1548
Turner, William P., New York, N. Y. Mucilage-bottle	564,348	July 21	1951	460	76	390
Turner, William W., Chicago, Ill. Roof	571,416	Nov. 17	1749	417	77	1007
Turner, William W., Chicago, Ill. Roof	571,417	Nov. 17	1750	418	77	1007
Turner, William W., Chicago, Ill. Metal roofing	573,937	Dec. 29	3324	794	77	1975
Turney, Eugene T., assignor to C. E. Rand, Chicago, Ill. Process of and apparatus for generating gas	556,115	Mar. 10	1118	266 699	74	1356
Turney, Frederick N., Nottingham, England. Apparatus for extracting fat from wool	573,727	Dec. 22	2957	701	77	1892
Turney, John E., Oak Park, assignor to United States Grain Drying Company, Chicago, Ill. Grain-drier	565,055	Aug. 4	155	36, 37	76	646
Turnock, Charles E., Liverpool, England. Circular sawing machine	572,230	Dec. 1	242	58	77	1325
Turton, James E., Washington, D. C. Bicycle-lock	570,521	Nov. 3	151	37	77	666
Tuska, Alonzo L., et al. (See Miller, Max, assignor.)						
Tuttle, David H. (See Haley and Tuttle.)						
Tuttle, Frank. (See Jamison and Tuttle.)						
Tuttle, Hosmer, Cedar Rapids, Iowa. Mechanical movement for bicycles	564,665	July 28	2493	589	76	509

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Tuttle, James E. (See Weeks and Tuttle.)						
Tuttle, John F., Springdale, Wash. Device for operating hay-forks.....	569,437	Oct. 13	1238	{ 290 291	{ 77	250
Tuttle, Lewis G., North Haven, Conn. Poison-distributer.....	566,251	Aug. 18	2343	574	76	1095
Tuttle, Merritt L., Mather, Wis., assignor of one-half to J. H. Palmeter, Chicago, Ill. Bal- ing-press.....	558,624	Apr. 21	1952	473	75	401
Tweedale, Edmund and S., and J. Smalley, Castleton, England. Carding-engine.....	560,604	May 19	2288	{ 524 525	{ 75	1171
Tweedale, Edmund and S., and J. Smalley, Manchester, England. Thread-guide for spin- ning and doubling machines.....	563,696	July 7	773	182	76	145
Tweedale, Edmund and S., and J. Smalley, Manchester, England. Ring and traveler-clearer.....	564,124	July 14	1568	368	76	309
Tweedale, Edmund and S., and J. Smalley, Manchester, England. Carding-engine bend..	564,125	July 14	1569	369	76	309
Tweedale, Edmund and S., and J. Smalley, Manchester, England. Spindle.....	564,905	July 28	2895	694	76	581
Tweedale, Edmund and S., and J. Smalley, Manchester, England. Mechanism for driving traveling flats.....	570,829	Nov. 3	748	170	77	777
Tweedale, Edmund and S., and J. Smalley, Manchester, England. Jack or apparatus for insuring differential motion on slubbing and roving frames.....	572,917	Dec. 8	1446	348	77	1576
Tweedale, Samuel. (See Tweedale and Smalley.)						
Twiss, Freeman L., and L. A. Barber, Groton, assignors to H. P. Denison, trustee, Syra- cuse, N. Y. Type-writing machine.....	560,012	May 12	1214	{ 270 271 272	{ 75	925
Twiss, Myron, Norfolk, Nebr. Windmill.....	574,290	Dec. 29	4019	954	77	2101
Twist, Charles W., Springfield, Mass. Armor for pneumatic tires.....	559,152	Apr. 28	2918	705	75	599
Twist, Sylvester A., Coldwater, Mich. Eaves-trough strainer.....	571,711	Nov. 17	2257	542	77	1100
Twisted Wire Box Strap Company. (See Moltz, George A., assignor.)						
Twitchell, Herbert E., and J. Frazer, Hamilton, Ohio. Heating and ventilating furnace..	559,918	May 12	1046	233	75	893
Two-Reel Lock-Stitch Sewing Machine Company. (See Jones, Daniel, assignor.)						
Twombly, Orison. (See Appleton, Charles J., assignor.)						
Twyman, Goodloe C. (See Thomas and Twyman.)						
Twyman, Goodloe C., Bowling Green, Ky. Roller-bearing.....	564,127	July 14	1572	369	76	310
Twyman, Goodloe C., Versailles, Ky. Domestic boiler.....	564,128	July 14	1574	369	76	310
Twyman, Goodloe C., and M. E. Thomas, Bowling Green, Ky.; said Thomas assignor to said Twyman. Cow-milker.....	564,126	July 14	1571	369	76	309
Twyman, John W., Detroit, Mich., assignor to Chadwick Copying Book Company, Spring- field, Mass. Copying-book attachment.....	558,882	Apr. 21	2398	584	75	485
Tydemann, Brice, London, England. Hydraulic engine.....	560,332	May 19	1820	{ 414 415	{ 75	1086
Tyldesley, Samuel, Watertown, N. Y. Valve.....	568,965	Oct. 6	429	95	77	82
Tylee, Charles H., et al. (See Tylee, Felix, assignor.)						
Tylee, Felix, assignor of two-thirds to C. H. Tylee and R. B. Dunham, Cleveland, Ohio. Metallic rail-support.....	554,607	Feb. 11	1429	{ 335 336	{ 74	787
Tyler, Abel D., Jr., assignor of one-half to S. Mawhinney, Worcester, Mass. Impregnat- ing wood.....	553,547	Jan. 28	1906	451	74	401
Tyler, Charles C., Hartford, assignor of one-half to R. S. Tyler, Jewett City, Conn. Oil-cup.....	553,971	Feb. 4	306	68	74	561
Tyler, Charles T., New York, N. Y. Horseshoe.....	568,055	Sept. 22	2325	562	76	1754
Tyler, Harry L., Corning, N. Y. Electrical gas-cock.....	556,386	Mar. 17	1647	385	74	1470
Tyler, Harry L., Corning, N. Y. Electric railway.....	558,238	Apr. 14	1293	316	75	261
Tyler, Harry L., Corning, N. Y. Alternating-current motor.....	558,239	Apr. 14	1294	316	75	262
Tyler, Harry L., Corning, N. Y. Electric heater.....	573,629	Dec. 22	2782	659	77	1861
Tyler, Hiram, and J. F. Ohmer, assignors to M. Ohmer's Son's Company, Dayton, Ohio. Type-writer desk.....	559,421	May 5	135	29	75	707
Tyler, John S., et al. (See Muckenhirn, Charles H., assignor.)						
Tyler, Robert S. (See Tyler, Charles C., assignor.)						
Tyler, W. S. (See White, Joseph W., assignor.)						
Tymeson, Eugene, assignor to W. B. Smith, Yonkers, N. Y. Moquette fabric and moquette- loom.....	571,418	Nov. 17	1752	{ 418 419	{ 77	1008
Tynes, Jefferson D., Fort Smith, Ark. Nut-lock.....	558,440	Apr. 14	1642	395	75	328
Type-Writer Cushion-Key Company. (See Graham and Savell, assignors.)						
Tyree, William, Wellington, New Zealand. Apparatus for heaving lines or ropes.....	561,295	June 2	410	101	75	1449
Tyrell, Herbert H., and C. M. Holford, Slate Run, Pa. Device for overcoming dead-centers.....	573,801	Dec. 22	3067	727	77	1914
Tyson, Benjamin H., Raleigh, N. C. Seal-lock.....	555,412	Feb. 25	2858	674	74	1088
Tyson, George E., Reading, Pa. Lock.....	557,731	Apr. 7	375	87	75	71
Tyzick, James, and J. F. Lawton, St. John, New Brunswick. Bolt and fastening device for fish-plates.....	556,836	Mar. 24	2423	569	74	1632
U. S. Cycle Improvement Company. (See McIntire, Charles S., assignor.)						
U. S. Cycle Improvement Company. (See Peirce, Almy L., assignor.)						
U. S. Cycle Improvement Company. (See Williams, William H., assignor.)						
Udstad, Sigvald, St. Charles, Mo., assignor to St. Charles Car Company, of Missouri. Com- bined seat and berth for railway-cars, &c.....	567,819	Sept. 15	1893	453	76	1662
Uebelacker, Charles F., assignor to S. H. Short, Cleveland, Ohio. Electric locomotive.....	554,353	Feb. 11	995	230	74	704
Uehling, Edward A., Birmingham, Ala. Pressure-gage.....	552,678	Jan. 7	315	84	74	62
Uehling, Edward A., and A. Steinbart, Birmingham, Ala. Pyrometer.....	554,323	Feb. 11	939	216	74	694
Ugel, Albert J. (See Modes and Ugel.)						
Uhl, William. (See Bengler, Uhl, and Slawson.)						
Uhle, Oscar E., et al. (See Laubsch, Carl L., assignor.)						
Uhlich, Ferdinand G., St. Louis, Mo. Window.....	555,837	Mar. 3	578	139	74	1235
Ulbrich, Richard C., Boston, Mass., assignor to W. Firth, Winchester, Mass. Humidifier system and apparatus.....	572,780	Dec. 8	1228	297	77	1531
Ulferts, Ulfert H., Galveston, Tex. Bootjack.....	562,050	June 16	1756	425	75	1746
Ullman, Albert, Macon, Ga. Bottle.....	568,818	Oct. 6	178	42	77	36
Ullmann, Harry M. (See Shober and Ullmann.)						
Ullrich, Eduard, and M. von Gallois, assignors to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Dyeing phenetidin red.....	569,395	Oct. 13	1168	.....	77	239
Ulmann, Jacques G., Zurich, Switzerland. Machine for producing metal shavings.....	573,728	Dec. 22	2960	701	77	1893
Ulrich, Allen D., Kokomo, Ind. Horse-collar.....	560,333	May 19	1823	415	75	1087
Ulrich, Charles B., Ypsilanti, Mich. Lifting device.....	561,363	June 2	531	134	75	1472
Ulrich, Moritz. (See Bammann and Ulrich.)						
Ulrich, Moritz, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Black dye.....	560,334	May 19	1825	.....	75	1087
Ulrich, Peter. (See Kaup, William, assignor.)						
Umbach, Christian, Jersey City, assignor to H. Berg, Orange, N. J. Magazine-camera.....	563,697	July 7	774	{ 182 183 184	{ 76	145
Umbach, John A. H., Savannah, Ga. Sash-fastener.....	571,465	Nov. 17	1834	437	77	1023

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Umbrecht, Charles, trustee. (See Knapp, Edward J., assignor.)						
Umholtz, Charles W., Bristol, Va. Injector	559,067	Apr. 28	2721	661	75	562
Uncapher, J. W., et al. (See Deplanty and Wilson, assignors.)						
Underhill, James W., Pine Grove, Mich. Potato-planter	573,054	Dec. 15	1703	408	77	1642
Underwood, Chester J., Elgin, assignor of one-fourth to E. Haskins, St. Charles, Ill. Mercury air-compressor	558,125	Apr. 14	1102	269	75	226
Underwood, Chester J., Elgin, assignor of one-fourth to E. Haskins, St. Charles, Ill. Air-motor	561,033	May 26	3086	712	75	1338
Underwood, Frank H., Auburndale, and F. H. Daniels, Worcester, Mass. Rail-bond	568,385	Sept. 29	2894	696	76	1878
Underwood, Frank M., Upper Sandusky, Ohio. Sparker for gas and gasoline engines	553,181	Jan. 14	1265	306	74	254
Underwood, Frank M., Upper Sandusky, Ohio. Mixer for gas-engines	574,183	Dec. 29	3811	{ 910 911	{ 77	2062
Underwood, Frank W., et al. (See Nivison, Charles, assignor.)						
Underwood, Joseph B., Fayetteville, N. C. Tobacco-stemming machine	556,324	Mar. 10	1532	{ 357 358	{ 74	1434
Underwood, Leroy C. (See Underwood, William T. and L. C.)						
Underwood, William T. and L. C., Itasca, Tex. Portable furnace	564,320	July 21	1907	450	76	383
Unger, Amanda M., Canton, Ohio. Dish-cleaner	554,324	Feb. 11	942	217	74	694
Unger Brothers. (See Beach, Edward P., assignor.)						
Unger, Emil, New York, N. Y. Combination sideboard and extension-table	555,413	Feb. 25	2859	{ 674 675	{ 74	1088
Unger, Isaac, Arcanum, Ohio. Gate	553,142	Jan. 14	1187	288	74	238
Unger, John E., assignor to J. Levy, New York, N. Y. Portable faradic battery	556,708	Mar. 17	2183	510	74	1571
Unger, Otto, New York, N. Y. Combined folding and extension table	556,387	Mar. 17	1649	{ 385 386	{ 74	1470
Unger, Paul, Lemont, Ill. Contact device for electric burglar-alarms	567,176	Sept. 8	785	185	76	1442
Union Carpet Lining Company. (See Beale, Joseph H., assignor.)						
Union Drawn Steel Company. (See McCool and Algeo, assignors.)						
Union Embossing Machine Company. (See De Tamble, Edward S., assignor.)						
Union, Frank L., Braintree, Mass. Filtering means for sewage-water	556,594	Mar. 17	2020	472	74	1539
Union, Frank L., Boston, Mass., assignor to Union Metal Corner Company, of Maine. Corner plaster-supporting strip or lath	560,605	May 19	2289	525	75	1171
Union Gas Engine Company. (See Daly and Corson, assignors.)						
Union Iron Works. (See Rowe, Willard C., assignor.)						
Union Metal Corner Company. (See Union, Frank L., assignor.)						
Union Oil Company of California. (See Salathé, Frederick, assignor.)						
Union Quoin Company. (See Brower, Abraham T. H., assignor.)						
Union Special Sewing Machine Company. (See Coombs, Abram L., assignor.)						
Union Special Sewing Machine Company. (See Foschinbaur, Joseph F., assignor.)						
Union Special Sewing Machine Company. (See McNeil, Chester, assignor.)						
Union Special Sewing Machine Company. (See Muther, Lorenz, assignor.)						
Union Special Sewing Machine Company. (See Weiss, Morris, assignor.)						
Union Special Sewing Machine Company. (See Woodward, Russel G., assignor.)						
Union Switch and Signal Company. (See Coleman, John P., assignor.)						
Union Switch and Signal Company. (See Cugan, John P., assignor.)						
Union Switch and Signal Company. (See Goodman and Stupakoff, assignors.)						
Union Switch and Signal Company. (See Pratt, Frank G., assignor.)						
Union Switch and Signal Company. (See Schreuder, Jens G., assignor.)						
Union Switch and Signal Company. (See Spicer, Vibe C., assignor.)						
Union Typewriter Company. (See Barron, Walter J., assignor.)						
Union Wire Mattress Company. (See Smith, John G., assignor.)						
United Alkali Company. (See Hawliczek, Josef, assignor.)						
United Alkali Company. (See Raschen, Julius, assignor.)						
United Gas Improvement Company. (See Clark and Norris, assignors.)						
United Gas Improvement Company. (See Knapp, Isaac N., assignor.)						
United Gas Improvement Company. (See Morrison, Henry K., assignor.)						
United Gas Improvement Company. (See Norris, Rollin, assignor.)						
United Gas Improvement Company. (See Shelton, Frederick H., assignor.)						
United Glass Company. (See Zellers and Blanchard, assignors.)						
United Mill and Furnace Company. (See Storer and Martin, assignors.)						
United Shirt and Collar Company. (See Pine, James K. P., assignor.)						
United States Axle and Skein Company. (See Kilian, Conrad J., assignor.)						
United States Butter Extractor Company. (See Andersson, Gustaf M., assignor.)						
United States Computing Scale Company. (See Swift, Horace E., assignor.)						
United States Export Company. (See Bugg, Owen T., assignor.)						
United States Filtering and Purifying Company. (See Sellers, George H., assignor.)						
United States Fire and Police Telegraph Company. (See Cole, Frederick W., assignor.)						
United States Fire and Police Telegraph Company. (See Ruddick, John J., assignor.)						
United States Glass Company. (See Altenbaugh, Frank, assignor.)						
United States Glass Company. (See Vogeley, Samuel G., assignor.)						
United States Grain Drying Company. (See Turney, John E., assignor.)						
United States Gramophone Company. (See Berliner, Emile, assignor.)						
United States Head Light Company. (See Hamm, William S., assignor.)						
United States Metal Box Corner Company. (See Schubert, Otto and M., assignors.)						
United States Phonograph Company. (See Capps, Frank L., assignor.)						
United States Phonograph Company. (See Emerson, Victor H., assignor.)						
United States Prism Glass Globe Company. (See Ballou and Seaver, assignors.)						
United States Repair and Guaranty Company. (See Perkins, Amos H., assignor.)						
United States Tubular Bell Company. (See Treat, James E., assignor.)						
United States Wind Engine and Pump Company. (See Miller, John H., assignor.)						
Universal Electric Messenger-Call Company. (See Denver, Henry, assignor.)						
Universal Fastener Company. (See Judson, Whitcomb L., assignor.)						
Universal Fire Alarm Company. (See Rowand, Lewis G., assignor.)						
Universal Gas Light and Fuel Syndicate. (See McEwen, Thomas G., assignor.)						
Universal Mail Equipment Improvement Company. (See Cody, Miles S., assignor.)						
Universal Printed Address Company. (See Stevens, Charles, assignor.)						
Universal Winding Company. (See Wardwell, Simon W., Jr., assignor.)						
Unkefer, George R., assignor of one-half to H. J. McKinnie, Cleveland, Ohio. Thread-cutter	553,439	Jan. 21	1710	408	74	348
Unruh, Albert A., McMinnville, Oreg. Bicycle-crank	563,821	July 14	997	237	76	203
Unz, Henry H., Philadelphia, Pa. Washer	554,099	Feb. 4	548	122	74	604
Unz, Henry H., Philadelphia, Pa. Type-writing machine	569,255	Oct. 13	931	223	77	193
Unz, Henry H., Philadelphia, Pa. Type-writing machine	570,522	Nov. 3	152	37	77	666
Unz, Henry H., Philadelphia, Pa., assignor to National Type Writer Company, of Pennsylvania. Type-writing machine	560,244	May 19	1659	378	75	1060

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Upham, Andrew J., assignor of one-third to W. H. Rogers, Sycamore, Ill. Wire-fence	555,193	Feb. 25	2479	586	74	1016
Upham, Artemas B., Boston, Mass. Blotting-pad	566,356	Aug. 25	2542	630	76	1148
Upham, George A. (See Washburne, James V., assignor.)						
Upham, Richard D., New York, N. Y. Sheathing composition	561,296	June 2	410	.....	75	1449
Upton, Charles S. (See Lefebvre and Upton.)						
Upton, Charles S. (See Place, James F., assignor.)						
Upton, Charles S., New York, N. Y. Lamp-stove	559,153	Apr. 28	2919	705	75	599
Upton, Charles T. (See Pratt and Upton.)						
Upton, George W., Warren, Ohio. Bottle	553,601	Jan. 28	2001	474	74	418
Upton, George W., Warren, Ohio. Filter	558,328	Apr. 14	1439	354	75	290
Upton, La Roy S., Governor's Island, N. Y. Self-closing lacing-hook	553,478	Jan. 21	1774	423	74	360
Urban, Leopold C., assignor of one-half to A. Kremers, Milwaukee, Wis. Carvacrol iodid.	561,531	June 2	845	.....	75	1529
Urbanus, Lawrence F., Chicago, Ill. Type-writing machine	574,230	Dec. 29	3920	932 } 933 }	77	2082
Urgellés, José M., Guayaquil, Ecuador. Machine for undoing cigarettes	556,595	Mar. 17	2021	472	74	1539
Urie, George M., Irondale, Ala. Bucket or grapple for excavating or other purposes	564,038	July 14	1404	326 } 327 }	76	275
Urie, William T., Kansas City, Mo. Dredging-machine	559,154	Apr. 28	2920	705 } 706 }	75	600
Urquhart, David I., Glasgow, and R. L. Urquhart, Edinburgh, Scotland. Golf-club	569,438	Oct. 13	1239	291	77	251
Urquhart, Robert L. (See Urquhart, David I. and R. L.)						
Urquhart, William L., Ottawa, Canada. Mechanical toy	563,896	July 14	1156	271	76	232
Urry, Frank H. (See Smith, Haydon, and Urry.)						
Usher, James M., West Medford, Mass. Wick-adjusting device for lamps	566,882	Sept. 1	247	57	76	1329
Utility Hook Company. (See Bachrach, Emanuel S., assignor.)						
Utility Manufacturing Company. (See Gates, Henry L., assignor.)						
Utter, James W., assignor of one-half to H. S. Abbot, Orange, Cal. Bedclothes-clamp	557,456	Mar. 31	3517	840	74	1859
Vacheron, Louis E. (See Ball and Vacheron.)						
Vacheron, Louis E., Wood Haven, assignor to Lalance & Grossjean Manufacturing Company, New York, N. Y. Pot-handle	564,728	July 28	2607	622	76	529
Vacuum Oil Company. (See Grimes and Wakefield, assignors.)						
Vail, Benjamin. (See Vail, James R., assignor.)						
Vail, Edward M., and G. Potter, Kewanee, Ill. Machine for marking mail-matter	560,444	May 19	2027	463	75	1124
Vail, Henry W., Jr., Industry, Ill. Wire-tightener	568,056	Sept. 22	2326	562	76	1754
Vail, James R., Ensley, Ala., assignor of one-half to B. Vail, Washington, D. C. Temporary binder	561,928	June 9	1537	372	75	1685
Vail, Stephen, New York, N. Y. Coin-controlled vending-machine	599,775	Oct. 20	1873	444	77	381
Vajen, Willis C., Indianapolis, Ind. Lantern	555,132	Feb. 25	2376	564	74	997
Valentine, James H., Obatham, N. J. Volatilizer	571,811	Nov. 24	2448	583	77	1156
Valentine, John, Newark, N. J. Rounding-jack	554,467	Feb. 11	1195	278	74	742
Valentine, William J., Warrensburg, N. Y. Pedal-crank for bicycles, &c.	573,055	Dec. 15	1704	408	77	1642
Valentin, Friedrich, Leipsic, Germany. Making acetophenonphenetidin	558,863	Apr. 21	2360	.....	75	477
Valiant, Joseph W., Baltimore, Md. Brake for railway-cars	552,599	Jan. 7	164	45	74	32
Valiquet, Louis P., assignor to Perfume Ejector Company, New York, N. Y. Vending-machine	562,439	June 23	2413	586	75	1884
Vallat, Eugene, Sr., Detroit, Mich. Car-brake	563,103	June 30	3613	866	75	2134
Vallee, Alice M. (See Nester, Daniel N., assignor.)						
Valley City Siphon Company. (See Hillhouse, Frank S., assignor.)						
Valley, Gustaf, assignor to Steel Motor Company, Cleveland, Ohio. Arc-interrupter for street-car controllers	561,838	June 9	1398	335	75	1657
Valley, Gustaf, assignor to Steel Motor Company, Cleveland, Ohio. Reversing and cut-out switch used in electric street-cars, &c.	561,839	June 9	1399	335	75	1658
Van Alstine, Charles H., Oconomowoc, Wis. File for papers	566,821	Sept. 1	135	33	76	1307
Van Alstine, George W. (See Weschcke, Emil, assignor.)						
Van Anroy, Benjamin. (See Gackeler, John A., assignor.)						
Van Arsdale, Frank D., Falconer, assignor to C. E. Weeks and P. C. Houston, Jamestown, N. Y. Machine for straightening wire	568,386	Sept. 29	2895	696	76	1878
Van Benthuyzen, Frank, Albany, N. Y. Paper-feeding machine	555,422	Feb. 25	2880	685 } 686 }	74	1092
Van Camp, Charles F., Philadelphia, Pa. Sprinkling-nozzle	564,906	July 28	2895	694	76	581
Van Cauwenberg, Edmund, New York, N. Y. Bit-gage	569,896	Oct. 20	2066	491	77	417
Van Cise, William C., assignor to J. M. Himebaugh, Jamestown, N. Y. Connection for coiled springs	569,256	Oct. 13	932	223	77	194
Van Coughnet, Charles E., Fort Bidwell, Cal. Attachment for anvils	563,104	June 30	3614	867	75	2134
Van Demark, Ferdinand L. (See Moore, Charles C., assignor.)						
Van Denbergh, Henry T., Chicago, Ill. Exhibitor	556,520	Mar. 17	1909	444	74	1519
Van Derveer, Joseph P., Clanton, Ala. Nut-lock	572,460	Dec. 1	659	155	77	1404
Van Derveer, Robert C., Clanton, Ohio. Collar-pad	569,363	Oct. 13	1117	266	77	230
Van Deusen, Charles H., Chicago, Ill. Cash register and indicator	556,741	June 9	1218	289	75	1626
Van Deusen, William A., Sprout Brook, N. Y. Device for spraying plants	556,447	Mar. 17	1763	410	74	1493
Van Dolah, Peter C., Kingsville, Mo. Sectional case	564,461	July 21	2145	501	76	425
Van Doren, Joseph M., York, Pa. Match-making machine	567,927	Sept. 15	2052	492 } 493 }	76	1694
Van Dorn, James N., and C. G. Seaman, Spokane, Wash. Car-coupling	559,235	Apr. 28	3080	743	75	630
Van Dorn, William T., Chicago, Ill. Car-coupling	566,822	Sept. 1	136	33	76	1307
Van Dorn, William T., Lincoln, Nebr. Draw-bar attachment for street-cars	569,729	Oct. 20	1789	425	77	366
Van Duzer, Edward V., et al. (See Burgis, Thomas C., assignor.)						
Van Dyke, Henry. (See Walton, Barker, and Van Dyke.)						
Van Dyke, John W. (See Frasch, Herman, assignor.)						
Van Dyke, John W., Lima, assignor of one-half to H. Frasch, Cleveland, Ohio. Increasing the flow of oil-wells	556,651	Mar. 17	2102	492	74	1555
Van Etten, Helen M., Moravia, N. Y. Phragmite structure	568,930	Oct. 6	359	83	77	69
Van Fleet, Fred, assignor of one-half to G. E. Graff, Williamsport, Pa. Type-writing-machine cleaning device	556,116	Mar. 10	1122	266	74	1356
Van Graafeiland, Charles, assignor to C. Lueders, St. Louis, Mo. Registering-faucet	569,439	Oct. 13	1240	291	77	251
Van Gysling, Walter F., assignor of one-third to F. Tillinghast, Albany, N. Y. Lubricator	554,429	Feb. 11	1129	264	74	730
Van Hoesen, Casper, assignor of one-half to D. Hochner, New York, N. Y. Skirt-slit holder	573,729	Dec. 22	2962	701	77	1893
Van Hoesen, Henry R. (See Shaver, Edward D., assignor.)						
Van Hoebenbergh, Henry, New York, N. Y. Igniting device	567,928	Sept. 15	2058	493	76	1695
Van Hoogstrate, John, assignor of one-half to A. Wahl, Chicago, Ill. Trolley for electric-railway cars	566,252	Aug. 18	2344	574	76	1096
Van Horn, James M., and G. H. Hayes, Lockwood, Mo. Rock-drilling machine	552,556	Jan. 7	93	25	74	20
Van Horn, Launy, Letts, Iowa. Hand garden-plow	561,455	June 2	702	173	75	1502

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Van Horne, Herman E., New York, N. Y. Collapsible tube	558,126	Apr. 14	1104	269	75	226
Van Houten, Frank H., Matteawan, N. Y. Wood-molding machine	558,005	Apr. 7	886	222	75	166
Van Houten, Frank H., Matteawan, N. Y., assignor to C. L. Goehring, Allegheny, Pa. Molding-machine	557,627	Apr. 7	171	44, 45	75	34
Van Kannel, Theophilus, Rockford, Ill. Elevator	552,651	Jan. 7	264	71, 72	74	51
Van Kannel, Theophilus, Rockford, Ill. Locking means for doors of elevator-shafts	552,652	Jan. 7	266	72	74	52
Van Kannel, Theophilus, Rockford, Ill. Cooker	556,787	Mar. 24	2347	553	74	1618
Van Kuran, Helen H. (See Heap and Van Kuran.)						
Van Kuran, Helen M., Chicago, Ill. Game apparatus	572,388	Dec. 1	552	130	77	1383
Van Meter, James M., Cambridge City, Ind. Vise	573,056	Dec. 15	1706	408 409	77	1642
Van Meter, Seymour, Cantrall, Ill. Book-holder	562,988	June 30	3403	818	75	2094
Van Meter, Seymour D., Denver, Colo. Bicycle-seat	556,448	Mar. 17	1764	410	74	1493
Van Name, Joshua V., Mariner's Harbor, N. Y. Bottle	573,557	Dec. 22	2633	626	77	1830
Van Norman, Charles E., Springfield, Mass. Shoe-lacing hook	565,099	Aug. 4	258	61	76	664
Van Norman, Charles E., Springfield, Mass. Milling-machine	570,723	Nov. 3	558	129	77	741
Van Nortwick, William M., et al. (See Ferres, Ainslie W., assignor.)						
Van Nostran, Homer J., assignor of two-thirds to J. E. Van Nostran, Canton, Ohio. Hay rake and loader	569,688	Oct. 20	1706	404	77	352
Van Nostran, Joseph E. (See Van Nostran, Homer J., assignor.)						
Van Nostrand, Daniel, Neillsville, Wis. Cabinet	566,357	Aug. 25	2543	620	76	1148
Van Oostrum, Otte, Portland, Oreg. Garment-fastener	573,057	Dec. 15	1707	409	77	1643
Van Oostrum, Otte, Portland, Oreg. Garment-fastener	573,058	Dec. 15	1703	409	77	1643
Van Oostrum, Otte, Portland, Oreg. Garment-fastener	573,059	Dec. 15	1709	409	77	1643
Van Oostrum, Otte, Portland, Oreg. Garment	573,060	Dec. 15	1711	410	77	1643
Van Opstal, John, New York, and E. M. Forst, Woodside, N. Y. Artificial fuel	569,689	Oct. 20	1708		77	353
Van Osta, Edouard, Louisville, Ky. Leather-cutting machine	558,864	Apr. 21	2360	575 576	75	477
Van Pelt, Charles H. (See Ellis, John, assignor.)						
Van Pelt, Samuel D., Anderson, Ind. Slate-cutting machine	562,051	June 16	1757	425	75	1746
Van Riper, Daniel R., Paterson, N. J. Refining-stove for photographers	564,729	July 28	2608	622	76	529
Van Riper, George T., Freeport, N. Y. Lantern-holder	568,592	Sept. 29	3285	789	76	1948
Van Ruymbeke, Joseph, assignor of one-half to W. F. Jobbins, Aurora, Ill. Purifying candle crude glycerin	558,441	Apr. 14	1643		75	328
Van Ruymbeke, Joseph, assignor of one-half to W. F. Jobbins, Chicago, Ill. Distilling apparatus	568,219	Sept. 22	2613	629	76	1810
Van Sickle, John P., Pasadena, Cal. Lawn-sprinkler	564,349	July 21	1952	460	76	390
Van Sickle, John P., assignor of one-half to W. H. Kelso, Los Angeles, Cal. Sprinkling device	553,727	Jan. 23	2221	526 527	74	458
Van Sickle, William B., Cleveland, Ohio Air-valve for hot-water heating systems	570,073	Oct. 27	2385	566	77	490
Van Steenberg, William H. (See Cole, Walter, assignor.)						
Van Tilburg, Ira, St. Paul, Minn. Metallic barrel	573,062	Dec. 15	1713	410	77	1644
Van Tine, George W., Bayonne, N. J. Molding-press	568,819	Oct. 6	180	43, 44	77	36
Van Tine, George W., Bayonne, N. J. Molding-press	569,690	Oct. 20	1708	404 405	77	353
Van Tine, George W., Bayonne, N. J. Molding-press	569,691	Oct. 20	1709	405	77	353
Van Valkenburg, Levi D., Holyoke, Mass. Lead-pencil and penholder attachment	560,872	May 26	2227	648	75	1289
Van Vechten, Junius T. B., Brooklyn, N. Y., assignor of one-half to J. A. Lowe, Leonia, N. J. Canopy for bicycles	572,843	Dec. 8	1826	319	77	1550
Van Vleet, John, New York, N. Y. Controllable switch-box	560,786	May 26	2626	603	75	1250
Van Vleet, John P., Cooksville, Wis. Gage	572,821	Dec. 1	421	99	77	1359
Van Vleet, Charles W., and J. P. Osborne, Rochester, assignors of one-third to W. D. Baldwin, Yonkers, N. Y. Box-machine	566,823	Sept. 1	138	34, 35	76	1307
Van Vleet, Charles W., Rochester, and A. Hurd, Yonkers, assignors to said Van Vleet, J. P. Osborne, Rochester, and W. D. Baldwin, Yonkers, N. Y. Cigarette-packing machine	567,014	Sept. 1	493	114 115 116 117	76	1375
Van Voorhies, William C. (See Morgan, Simon, assignor.)						
Van Vorst, William J. (See Scott, Mablon M., assignor.)						
Van Wagenen, Albert. (See Goddu, William, assignor.)						
Van Wagenen, Ethelinda. (See Van Wagenen, George, assignor.)						
Van Wagenen, George, assignor to E. Van Wagenen, New York, N. Y. Pneumatic tire for bicycles	559,987	May 12	1173	261	75	920
Van Wagoner, Charles H., Homer, Mich. Fence-post	562,207	June 16	2021	488	75	1795
Van Wie, Peter G., assignor to Favorite Stove and Range Company, Piqua, Ohio. Burner for gas-stoves	559,236	Apr. 28	3021	744	75	630
Van Winkle, Abram, et al. (See Madden, Albert F., assignor.)						
Van Winkle, Frank. (See Hill and Van Winkle.)						
Van Wormer, Adna, St. Louis, Mo. Head and neck protector	566,824	Sept. 1	150	35	76	1311
Van Wye, Garry P., Chicago, Ill., assignor to F. H. Cross, Grand Rapids, Mich. Printing-machine for duplicating type-written work	571,023	Nov. 10	1090	254	77	870
Van Zandt, Luther H., Fort Worth, Tex. Brush	556,873	Mar. 24	2492	587	74	1645
Vance, Eldred S., assignor of one-half to J. J. McClellan, Donoho, Tenn. Bottle	556,446	Mar. 17	1762	409	74	1493
Vance, Samuel J., Girard, Kans. Cistern-cleaner	568,057	Sept. 22	2327	562	76	1754
Vandegrift, James A. (See Smith and Vandegrift.)						
Van den Elshout, Jules F. M. (See Bosselaer and Van den Elshout.)						
Vandenburg, A. (See Laube, Godfried, assignor.)						
Vander Weyde, Henry, London, England. Apparatus for cutting block-ice into cubes	566,038	Aug. 18	1996	483	76	1030
Vander Weyde, Henry, London, England. Apparatus for branding ice slabs	566,039	Aug. 18	1998	484	76	1030
Vanderbeck, R. J., assignor of one-half to W. H. Sleeper, Sheldon, Iowa. Whiffletree-coupling	564,264	July 21	1815	425	76	367
Vandermark, Welbon W. (See Minich, William J., assignor.)						
Vandermolken, Joe, Grand Rapids, and J. Veen, Vriesland, Mich. Tile-machine	559,739	May 5	645	155	75	805
Vanderpool, Frederick, Gloversville, assignor of one-half to G. Vanderpool, Mayfield, N. Y. Automatic measuring and registering apparatus for liquids	561,948	June 9	1576	382 383	75	1693
Vanderpool, George. (See Vanderpool, Frederick, assignor.)						
Vanderpool, John A. (See Leibe and Vanderpool.)						
Vandersall, Abram, Columbus, Ohio. Mustache-guard	562,440	June 23	2419	587	75	1885
Vandervoort, Manly R., Clinton, Ill. Detachable heel	570,830	Nov. 3	743	170	77	778
Vanderwort, James B., Winona, Minn. Register or counter	566,430	Aug. 25	2684	655	76	1176
Vanhorn, Preston, Brooklyn, N. Y. Oil-burning attachment for stoves	563,897	July 14	1158	272	76	232
Vanman, Daniel. (See Moore and Vanman.)						
Vanlaningham, Daniel T., Novinger, Mo. Wire-fence gate	558,127	Apr. 14	1104	270	75	226

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Vanlue, Amos C. (See Swisher, Orange, assignor.)						
Vann, Samuel. (See English, Vann, and Jones.)						
Vannote, Jacob E., Chicago, Ill. Device for suspending and holding hogs	558,006	Apr. 7	888	223	75	166
Vanstone, Samuel, Providence, R. I. Nut-blank and machine for making same	566,634	Aug. 25	3015	737	76	1239
Vanstrum, Fredrick T. and J. P., Minneapolis, Minn. Non-refillable bottle	573,061	Dec. 15	1712	410	77	1644
Vanstrum, John P. (See Vanstrum, Fredrick T. and J. P.)						
Vant Woud, Victor C., Brooklyn, N. Y. Atomizer	568,058	Sept. 22	2329	563	76	1754
Vanwagener, Cornelius A., Ellenville, N. Y. Lifting device	556,837	Mar. 24	2424	569	74	1632
Varian, Samuel T., East Orange, N. J. Shaving-brush holder	568,121	Sept. 22	2451	588	76	1778
Variety Machine Company. (See Benham, Ethan S., assignor.)						
Varney, George I. (See Leeper, Bartram G., assignor.)						
Varney, William W. (See Fowler, Charles W., assignor.)						
Vasbinder, Joseph. (See Stewart, John H., assignor.)						
Vassar, Robert G. (See Smith, James G., assignor.)						
Vassar, Robert G., <i>et al.</i> (See Smith, Charles B., assignor.)						
Vauchlain, Samuel M., <i>et al.</i> (See McConnell, Jacob Y., assignor.)						
Vaughan, David F., Haddonfield, N. J. Guard-rail fastener	564,350	July 21	1953	460	76	391
Vaughan, David F., Haddonfield, N. J. Compensator for signals	564,351	July 21	1954	461	76	391
Vaughan, George, Salt Lake City, Utah. Dump-wagon	556,596	Mar. 17	2023	472	74	1539
Vaughan, William H., London, England. Collapsible furniture	558,865	Apr. 21	2364	{ 576 577 }	75	477
Vaughen, Samuel W. (See Cabot and Vaughen.)						
Vaughn, George C. (See Cryderman, Jacob, assignor.)						
Vaughn, George S., Oil City, Pa. Balanced slide-valve	558,866	Apr. 21	2366	578	75	478
Vaughn Machine Company. (See Jones, Albert F., assignor.)						
Vaughn, Stephen K., assignor of one-half to D. M. Dickinson, Cambridge, Vt. Cultivator	556,225	Mar. 10	1322	310	74	1393
Veasey, Sparks P. (See Ferrell and Hamrick, assignors.)						
Veazie, Henry A., New Orleans, La. Evacuating device for pneumatic tires	564,666	July 28	2494	589	76	509
Veazie, Henry A., assignor of one-half to R. G. Memory, New Orleans, La. Bicycle-tire	563,822	July 14	998	{ 237 238 }	76	203
Veazie, Henry A., assignor of one-half to R. G. Memory, New Orleans, La. Wheel-tire	563,823	July 14	1001	238	76	203
Veen, John. (See Vandermolen and Veen.)						
Veer, Andrew A., Delaware, Ohio. Sash-lock	562,104	June 16	1855	450	75	1763
Veit, Anton, Chicago, Ill. Shutter operating and locking device	564,807	July 28	2744	652	76	552
Veit, Charles F., Brooklyn, N. Y. Fountain-pen	552,679	Jan. 7	318	84	74	62
Velasko, Adolph G., Philadelphia, Pa. Undergarment	570,971	Nov. 10	995	231	77	852
Velasko, Adolph G., assignor of one-half to W. S. Lloyd, Philadelphia, Pa. Undershirt	560,307	May 19	1779	405	75	1079
Vellenoweth, Harry, Philadelphia, Pa. Filter and connection with faucet or water-supply	553,273	Jan. 21	1427	346	74	296
Vellines, Benton H., Norfolk, Va. Electrotherapeutic band	569,529	Oct. 13	1395	329	77	279
Venn, Frank, Malden, Mass. Hand-stamp	570,724	Nov. 3	560	130	77	742
Venn, Isaac H., Yonkers, N. Y., assignor, by mesne assignments, to National Company, Chicago, Ill. Elevator apparatus	564,321	July 21	1908	{ 450 451 }	76	383
Veon, Andrew E., assignor of one-half to E. W. Lynch, Brainerd, Minn. Combined door-fastener and alarm	571,546	Nov. 17	1984	472	77	1049
Veon, Andrew E., assignor of one-half to E. W. Lynch, Brainerd, Minn. Gun-sight	572,494	Dec. 1	708	170	77	1413
Verbeek, Hermann. (See Coles and Barker, assignors.)						
Verdin, Alois N. (See Heath and Verdin.)						
Verley, Albert. (See Otto and Verley.)						
Vermillion, William E. C. (See Roberts and Vermillion.)						
Vermilyea, Eugene, Waterford, assignor of two-thirds to S. T. Harshaw, Lansingburg, and Campbell & Clute, Cohoes, N. Y. Rotary knitting machine	573,063	Dec. 15	1714	{ 411 412 }	77	1644
Vermont Farm Machine Company. (See Kimball, Perley L., assignor.)						
Vernaz, Alexis, assignor to Mermod Frères, Ste. Croix, Switzerland. Music-box	557,349	Mar. 31	3337	801	74	1825
Vernaz, Alexis, assignor to Mermod Frères, Ste. Croix, Switzerland. Checking device for sprocket-wheels of musical instruments	558,442	Apr. 14	1645	395	75	329
Vernaz, Alexis, assignor to Mermod Frères, Ste. Croix, Switzerland. Device for adjusting sprocket-wheels in musical instruments	565,649	Aug. 11	1294	312	76	876
Vernaz, Alexis, assignor to Mermod Frères, Ste. Croix, Switzerland. Means for making sprocket-wheels of musical instruments enter perforations of note-plates	565,650	Aug. 11	1296	313	76	876
Vernon, Charles D., Minto, N. D. Flash-light machine	555,133	Feb. 25	2377	564	74	997
Vernon, George H. (See Huff and Vernon.)						
Verstraete, Edmond, St. Louis, Mo. Operating dynamo-electric machines in multiple	556,788	Mar. 24	2350	553	74	1618
Very, Theodore S., Boston, Mass. Felt boot	554,468	Feb. 11	1196	278	74	742
Vess, Alfred W., and H. C. Kenney, Athens, Ga. Glove-case	558,068	Apr. 28	2723	662	75	562
Vestal, Alverda J. (See Holder, Elisha G., assignor.)						
Vestal, William B., and S. W. Ray, Dallas, Tex. Gas-generator	554,630	Feb. 11	1480	346	74	796
Vester, Adolph, Providence, R. I. Belt-buckle	556,292	Mar. 10	1477	344	74	1424
Vester, John, Philadelphia, Pa. Smoking-tube	573,064	Dec. 15	1718	412	77	1644
Vetter, Alexander F., New York, N. Y. Storage battery	557,920	Apr. 7	698	167	75	132
Veyron & Co., Louis. (See Veyron, Louis, assignor.)						
Veyron, Louis, assignor to L. Veyron & Co., Paris, France. Lappet-loom	566,551	Aug. 25	2906	709	76	1217
Via, William D., and M. V. Stedman, Stuart, assignors of three-fourths to W. K. Via and W. R. Cummings, Critz, Va. Self-waiting table	558,128	Apr. 14	1105	270	75	227
Via, William K., <i>et al.</i> (See Via and Stedman, assignors.)						
Violet-Chabrand, Lucien, La Ciotat, France. Life-saving float and its detaching device	556,597	Mar. 17	2024	{ 472 473 474 }	74	1540
Viau, Charles T., Montreal, Canada. Chocolate-coating apparatus	570,575	Nov. 3	263	66	77	687
Vickerman, John, Longford, England, assignor to P. Whiting, Lamy, N. Mex. Ter. Warp stop-motion for looms	572,918	Dec. 8	1447	{ 348 349 }	77	1576
Vickers, Adolphus J. (See Cole, William E., assignor.)						
Vickers, Margaret, Denver, Colo. Curtain or canopy holder	560,288	May 19	1741	396	75	1074
Victor G. Bloede Company of Baltimore City. (See Bloede, Victor G., assignor.)						
Victor Manufacturing Company. (See Moody, Henry T., assignor.)						
Vierengel, Matthew, Brooklyn, N. Y. Center-rest for lathes	568,551	Sept. 29	3201	771	76	1933
Viert, Albert, Chicago, Ill. Propeller for vessels	552,938	Jan. 14	847	204	74	173
Vietts, Herbert L., assignor to Westfield Plate Company, Thompsonville, Conn. Handle	557,628	Apr. 7	175	45	75	34
Viewegh, Ernest, assignor to E. C. Atkins & Company, Indianapolis, Ind. Saw	555,983	Mar. 10	866	205	74	1312
Villa, Giovanni, Milan, Italy. Means for protecting banks of rivers, streams, or sea from erosion	554,354	Feb. 11	996	230	74	704
Villamor, Timoteo, Merida, Mexico. Machine for preparing vegetable fiber	559,009	Apr. 28	2620	{ 638 639 }	75	543

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Vilter Manufacturing Company. (See Vilter, William O., assignor.)						
Vilter, William O., assignor to Vilter Manufacturing Company, Milwaukee, Wis. Vent attachment for corking-machines	573,426	Dec. 15	2397	571	77	1769
Vinbrunx, Egidius, and C. O. Sobinski, St. Louis, Mo. Support for musical performers	564,667	July 28	2496	590	76	509
Vincent, George P., assignor of one-half to F. W. Horrobin, Cohoes, N. Y. Straightway stop-valve	554,205	Feb. 4	731	166	74	639
Vincent, James E., Columbia, Tenn. Combined wrench and thill-support	554,846	Feb. 18	1842	434	74	883
Vincent, Joseph A., Philadelphia, Pa. Electric smelting-furnace	567,699	Sept. 15	1683	405	76	1622
Vinot, Stephen, Denver, Colo. System of ventilating grease-traps	560,335	May 19	1826	415	75	1087
Vinup, Charles R., Baltimore, Md. Clasp	566,253	Aug. 18	2346	575	76	1096
Virkler, Jacob H., Croghan, N. Y. Cattle-stanchion	574,291	Dec. 29	4020	954	77	2101
Vivartas, William O., Hoboken, N. J., assignor to Glen Cove Machine Company, Limited, New York, N. Y. Grinding-machine	563,105	June 30	3616	867	75	2134
Vivian, Edwards A. E., Staines, England. Case or receptacle for sponges, &c	558,535	Apr. 21	1808	439	75	375
Vivian, Sarah H. (See Wemmer, William N., assignor.)						
Vocke, Rudolph, and E. Lungstras, St. Louis, Mo. Table folding bed	563,520	July 7	481	{ 113 114 }	{ 76 75 }	{ 92 1124 }
Voegel, August, Brooklyn, N. Y. Rack for holding drinking-glasses	560,447	May 19	2028	464	75	1124
Voegeli, John. (See Hamann and Voegeli.)						
Voegtlin, John, assignor of one-half to G. W. and A. E. Barnes, Republic, Mich. Artificial hand	569,593	Oct. 13	1528	358	77	304
Voelkel, John, East St. Louis, Ill. Car-roof	561,840	June 9	1401	{ 335 336 }	{ 75 75 }	{ 1658 1658 }
Voelker, William L., Elizabeth, N. J., assignor, by mesne assignments, to Consolidated Sterling Incandescent Gas Lamp Company, of New Jersey. Material for and process of manufacturing hoods, &c., for incandescent gas-lights	562,441	June 23	2420	.....	75	1886
Voelker, William L., Elizabeth, N. J., assignor, by mesne assignments, to Consolidated Sterling Incandescent Gas Lamp Company, of New Jersey. Hood, &c., for incandescent gas-lights	562,442	June 23	2421	.....	75	1886
Voelker, William L., Elizabeth, N. J., assignor, by mesne assignments, to Consolidated Sterling Incandescent Gas Lamp Company, of New Jersey. Process of and material for manufacturing hoods for incandescent gas-lights	566,040	Aug. 18	1999	484	76	1031
Voelker, William L., Elizabeth, N. J., assignor to Consolidated Sterling Incandescent Gas Lamp Company, of New Jersey. Material and process for incandescent mantles	568,184	Sept. 22	2555	615	76	1798
Voelker, William L., Elizabeth, N. J., assignor to Consolidated Sterling Incandescent Gas Lamp Company, of New Jersey. Manufacturing hoods or mantles for incandescent gas-burners	571,419	Nov. 17	1757	.....	77	1008
Vogan, Frank M., Canton, Ohio. Metallic roofing-plate	567,700	Sept. 15	1685	405	76	1623
Vogan, Hamilton P. (See Shoup and Vogan.)						
Vogel, Ernest H., New York, N. Y. Chuck	573,189	Dec. 15	1941	467	77	1686
Vogel, George L., New York, N. Y. Shutter-fastener	571,586	Nov. 17	2046	487	77	1060
Vogele, Samuel G., assignor to United States Glass Company, Pittsburg, Pa. Glass-finishing machine	558,536	Apr. 21	1809	439	75	376
Vogele, Samuel G., assignor to United States Glass Company, Pittsburg, Pa. Glass-finishing apparatus	558,537	Apr. 21	1810	{ 439 440 }	{ 75 75 }	{ 376 376 }
Voges, Emil. (See Rudolph and Voges.)						
Vogl, Charles C. (See Goldrick and Vogl.)						
Vogler, William, Somerville, Mass., assignor to American Metallic Cushion Company, of West Virginia. Seat or cushion	562,940	June 30	3305	797	75	2072
Vogler, William, Somerville, Mass., assignor to American Metallic Cushion Company, of West Virginia. Pillow or cushion	562,941	June 30	3312	798	75	2075
Vogt, Axel S. (See Schutte and Vogt.)						
Vogt, John W., assignor to H. Likly & Co., Rochester, N. Y. Hat box or holder	567,929	Sept. 15	2059	494	76	1695
Vogt, Wilhelm, Philadelphia, assignor to A. A. Landis, Collegeville, Pa. Gripping mechanism for cars	571,812	Nov. 24	2450	583	77	1156
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Knob attachment	554,804	Feb. 18	1763	415	74	866
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock	572,844	Dec. 8	1328	20	77	1551
Voigtlander, Frederick von, Brunswick, Germany. Lens for optical or other purposes	567,326	Sept. 8	1063	253	76	1491
Voigtlander & Sohn. (See Kaempfer, David, assignor.)						
Voise, Morris A., Saginaw, Mich. Garment-supporter	566,947	Sept. 1	363	84	76	1352
Volk, Allan F., New York, N. Y. Tobacco-pipe	568,504	Sept. 29	3098	746	76	1915
Volkenrath, August, Huntington, W. Va. Pan-lifter	559,877	May 12	972	216	75	879
Volkenrath, Mary A., Huntington, W. Va. Foot-rest for sewing-machines	562,559	June 23	2607	632	75	1919
Volker, Daniel L., Buffalo, N. Y. Steering-gear for vessels	567,327	Sept. 8	1064	{ 253 254 }	{ 76 76 }	{ 1491 391 }
Vollrath, Andrew J., Sheboygan, Wis. Enameling metallic surfaces	564,352	July 21	1955	.....	76	391
Voorhees Electric Company. (See Voorhees, Gardner T., assignor.)						
Voorhees, Gardner T., assignor to Voorhees Electric Company, Boston, Mass. Multiple-fuse cut-out	569,692	Oct. 20	1711	406	77	353
Voorhees, John H., Brooklyn, N. Y. Steam-boiler-tube cleaner	572,037	Nov. 24	2848	{ 670 671 }	{ 77 77 }	{ 1231 777 }
Vorpahl, Leonhard, and H. Pohl, Berlin, Germany. Lock for albums	559,639	May 5	495	114	75	777
Vorpe, Eugene. (See Kneedler and Vorpe.)						
Vosburgh, Charles C., Amsterdam, N. Y. Curtain-pole ornament	566,488	Aug. 25	2812	685	76	1198
Vose, Ambrose S., et al. (See Ayer, Albert E., assignor.)						
Vose, Ambrose S., et al. (See Chase and Foster, assignors.)						
Vose, Ambrose S., Boston, Mass. Heel trimming and randing machine	560,825	May 26	2719	625	75	1269
Vose, Ambrose S., Boston, Mass. Rand guard and knife	561,034	May 26	3089	712	75	1339
Vose, Ambrose S., Boston, Mass., assignor to Vose Edge Finishing Company, Nashua, N. H. Rotary cutter. (Reissue)	11,526	Mar. 24	2867	685	74	1718
Vose, Ambrose S., Boston, Mass., assignor to Vose Edge Finishing Company, Nashua, N. H. Rotary trimming-machine	560,873	May 26	2828	648	75	1289
Vose Edge Finishing Company. (See Vose, Ambrose S., assignor.)						
Vose Edge Finishing Company. (See Vose, Ambrose S., assignor.) (Reissue.)						
Voss, Detlef C., Malden, assignor to H. Hastings, Boston, Mass. Electrical resistance device	573,558	Dec. 22	2634	626	77	1830
Voss, Nicholas H., New York, N. Y. Letter-file or paper-clip	555,229	Feb. 25	2534	597	74	1026
Voss, William H., Davenport, Iowa. Surgical apparatus	572,139	Dec. 1	83	18	77	1293
Voth, Henry, Moberly, Mo. Weather-strip	565,946	Aug. 18	1829	444	76	997
Vought, Freeman S. (See Smethers, William H., assignor.)						
Vulcan Brass Company. (See Gayer, Frank C., assignor.)						
Vulcan Iron Works Company. (See Webber, John B., assignor.)						
Vulpinus, Herman, assignor of two-thirds to H. Kahn and J. S. Doddridge, Leadville, Colo. Heater for explosives	571,712	Nov. 17	2258	542	77	1100

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Vulté, Hermann T., New Rochelle, assignor to J. H. Wingfield, New York, N. Y. Recovering potash from suint.....	559,826	May 12	861	75	858
Vulté, Hermann T., New Rochelle, assignor to J. H. Wingfield, New York, N. Y. Treating suint and products resulting therefrom.....	571,870	Nov. 24	2557	.....	77	1175
W. and E. T. Fitch Company. (See Hubbard, George M., assignor.)						
W. F. & John Barnes Company. (See Barnes, Benjamin F., assignor.)						
W. F. & John Barnes Company. (See Barnes, John, assignor.)						
W. H. Hill Envelope Company. (See Day, Edward A., assignor.)						
W. J. Clark Company. (See Blackburn, Joseph S., assignor.)						
W. O. Hickok Manufacturing Company. (See Bigelow, Lucius S., assignor.)						
W. S. Bogle Company. (See Notter, Charles H., assignor.)						
W. W. Kimball Company. (See Hedgeland, Frederick W., assignor.)						
W. & W. Manufacturing Company. (See Worden, Will J., assignor.)						
W. W. Pryor Hardware Manufacturing Company. (See Pryor and Schaetzle, assignors.)						
W. W. Sprague Company. (See Hibbard, Maury W., assignor.)						
Waber, Backie. (See Coplin, David, assignor.)						
Wabers, Henry H., Wantoma, Wis. Hand-planter.....	566,635	Aug. 25	3017	737	76	1239
Wachter, Harry W. (See Fredrick and Wachter.)						
Waddell, Harry D., Hillsborough, Ohio. Shoe-polisher.....	556,652	Mar. 17	2104	492	74	1555
Waddell, John M. (See Canny, David R., assignor.)						
Waddell, John M., Greenfield, Ohio. Combined paper-weight and game or puzzle.....	570,858	Nov. 3	799	183	77	787
Waddell, John W., Hamilton, Canada. Game-board.....	567,177	Sept. 8	786	185	76	1442
Waddell, Thomas J., assignor of one-half to L. C. O'Brien, Des Moines, Iowa. Signal-lantern.....	568,820	Oct. 6	183	44	77	37
Waddington, John. (See King, Downes, and Waddington.)						
Wade, Edward, Lawrence, Mass. Adjustable incandescent-lamp holder.....	557,732	Apr. 7	376	88	75	71
Wade, Edward E., et al. (See Simpson, James, assignor.)						
Wade, James J., Chicago, Ill. Overflow and waste for baths or basins.....	556,388	Mar. 17	1650	386	74	1470
Wade, Linley G., Holly, Mich. Camp-stool.....	564,129	July 14	1575	370	76	310
Wade, Linley G., Holly, Mich. Newspaper-holder.....	566,254	Aug. 18	2347	575	76	1096
Wadell, Frank B., Clinton, Mo. Separable button.....	570,576	Nov. 3	266	66	77	688
Wadley, Hun G., Wilmington, N. C. Lumber-loading apparatus.....	561,631	June 9	1019	245	75	1588
Wadsworth, Edson S. (See Wadsworth, William U. and E. S.)						
Wadsworth, William U. and E. S., Sutter, Cal. Fence-wire coiler.....	554,749	Feb. 18	1672	394	74	849
Waegel, William, Philadelphia, Pa. Car-fender.....	558,538	Apr. 21	1811	440	75	376
Waegel, William, Philadelphia, Pa. Safety-lamp.....	562,208	June 16	2022	488	75	1795
Wagenhals, Frank S. (See Anderson and Wagenhals.)						
Wagner, Christian J., assignor of one-half to W. L. Slack, Pittsburg, Pa. Door closer, check, and holder.....	573,497	Dec. 22	2535	601	77	1811
Wagg, Solomon R., Appleton, Wis. Method of and apparatus for coloring webs of paper.....	564,353	July 21	1956	461	76	391
Wagner, Bernard P. (See Bingham and Wagner.)						
Wagner, Caspar. (See Zugermayer, Melchior, assignor.)						
Wagner, Charles A. W., et al. (See Brown, Wilfred L. and C., assignors.)						
Wagner, Charles J. (See Kraker, Joseph, assignor.)						
Wagner, Christian, assignor of one-half to J. E. Everline, Reading, Pa. Shutter-worker.....	570,577	Nov. 3	268	66	77	688
Wagner, Daniel. (See Eversman and Wagner.)						
Wagner, Eugenia V., Drexel, Fla. Body rest and support for canopies.....	560,245	May 19	1662	378	75	1060
Wagner, Ezra B. (See Bolenbaugh, Warner, and Crockett.)						
Wagner, Frank, Shancks, Ohio. Gynecological forceps.....	535,194	Feb. 25	2480	586	74	1017
Wagner, Frank A., Cleveland, Ohio. Awning-fixture.....	572,461	Dec. 1	660	156	77	1404
Wagner, Frank B., Cleveland, Ohio. Coin-holder.....	571,179	Nov. 10	1359	317	77	919
Wagner, Frank R., et al. (See Schmick, Henry J., assignor.)						
Wagner, Franz X. (See Wagner, Herman L. and F. X.)						
Wagner, George H., New York, N. Y. Hanger or support for sad-irons.....	561,245	June 2	286	72	75	1423
Wagner, Gustav T., Berlin, Germany. Automatic folding chair with coin-freed controlling mechanism.....	554,750	Feb. 18	1674	394	74	850
Wagner, Henry, and M. J. Dwyer, St. Louis, Mo. Folding stretcher.....	567,524	Sept. 8	1381	332	76	1548
Wagner, Herbert A., and F. Schwedtmann, St. Louis, Mo. Electric cut-out and insulator.....	552,680	Jan. 7	319	85	74	63
Wagner, Herman L. and F. X., New York, N. Y.; said Herman L. Wagner assignor to said F. X. Wagner. Type-writing machine.....	559,345	Apr. 28	3268	789 791	75	665
Wagner, Jean, Paris, France. Grate-bar.....	561,632	June 9	1021	245	75	1588
Wagner, Jean, Paris, France. Grate-bar.....	561,929	June 9	1538	372	75	1685
Wagner, John L., Terre Haute, Ind. Railway-switch.....	569,730	Oct. 20	1790	425	77	367
Wagner, Joseph I., assignor of five-eighths to J. B. Moore, W. J. Miles, and H. W. Goodwin, El Dorado, Ark. Scale-measure for cloth, ribbon, &c.....	556,598	Mar. 17	2027	475	74	1540
Wagner, Julius, Aschersleben, assignor of one-half to F. Jordan, Köthen, Germany. Automatic car-coupling.....	559,470	May 5	208	46, 47	75	722
Wagner Manufacturing Company. (See Bingham and Wagner, assignors.)						
Wagner, Nelson, Ischua, N. Y. Potato-hiller.....	567,178	Sept. 8	787	185	76	1443
Wagner, Robert. (See Bachmann and Wagner.)						
Wagner, Robert, and J. J. Maier, Philadelphia, Pa. Tanning hides or skins.....	574,014	Dec. 29	3477	.....	77	2002
Wagor, Esco P. (See Smith and Wagor.)						
Wagor, Philo R. (See Gablau, Emil, assignor.)						
Wagor, Philo R., Springfield, Mass. Lamp-shade holder.....	566,255	Aug. 18	2348	575	76	1096
Wahl, Albert. (See Van Hoogstrate, John, assignor.)						
Wahl, Frederick, Cincinnati, Ohio. Holder for mandolin-picks.....	557,293	Mar. 31	3239	777	74	1805
Wahl, Karl, and J. Rixy, Prague, Austria-Hungary. Building plate or tile.....	552,939	Jan. 14	849	204 205	74	173
Wainwright, George J., New York, N. Y. Non-refillable bottle.....	554,805	Feb. 18	1764	415	74	867
Wainwright, George J., assignor to W. J. Wainwright, New York, N. Y. Combined opera glass and phone.....	574,124	Dec. 29	3678	877	77	2039
Wainwright, George J., assignor to W. J. Wainwright, New York, N. Y. Handle and phone attachment for opera-glasses.....	574,125	Dec. 29	3680	877	77	2039
Wainwright, Walter J. (See Wainwright, George J., assignor.)						
Wainwright, William W., and E. D. Johnston, assignors to P. H. & F. M. Roots Company, Connorsville, Ind. Apparatus for moving slack.....	560,381	May 19	1909	434	75	1103
Wait, Henry H. (See Oehring and Wait.)						
Wait, Henry H., assignor to Western Electric Company, Chicago, Ill. Brush for arc-dynamoes.....	563,337	July 7	187	41, 42	76	38
Wait, Wesley, Newburg, N. Y. Wire-fastener.....	556,521	Mar. 17	1910	445	74	1519
Waite, Benjamin C., Geneva, N. Y. Combined frictional and positive clutch.....	565,190	Aug. 4	451	108	76	700
Waite, Charles N., Rumford, assignor to Electro-Chemical Company, Rumford Falls, Me. Utilizing saline solutions.....	558,240	Apr. 14	1296	75	262

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Waite, Charles N., assignor to Electro-Chemical Company, Rumford Falls, Me. Utilizing saline solutions	558,241	Apr. 14	1297	75	262
Waite, Gilman. (See Nichols, Thomas, assignor.)						
Waite, Harry F., New York, N. Y. Electric dental apparatus	566,103	Aug. 18	2111	515	76	1050
Waite, Henry E., New York, N. Y. Electrotherapeutic apparatus	565,056	Aug. 4	157	37	76	647
Waite, John H., Rock Falls, assignor to J. Decker, Sterling, Ill. Acetylene-gas generator	573,935	Dec. 29	3324	794	77	1975
Waite, Milo K., assignor of one-half to C. R. Blake, Northville, N. Y. Window-shelf	572,231	Dec. 1	243	58	77	1325
Waite, Samuel, Lowell, Mass. Let-off for narrow-ware looms	562,989	June 30	3405	818	75	2094
Waltzfelder, Albert S., assignor to Kursheedt Manufacturing Company, New York, N. Y. Dress-stay	562,443	June 23	2422	587	75	1886
Waite, Arthur M., Cleveland, Ohio. Car-door	570,074	Oct. 27	2386	566	77	491
Waite, Arthur M., and H. F. Ball, Cleveland, Ohio. Car-door	570,075	Oct. 27	2388	566	77	491
Wakefield, Charles C. (See Grimes and Wakefield.)						
Wakefield, James. (See Parkinson, Childers, Hanson, and Wakefield.)						
Wakeman, Bryan S., Scranton, Pa. Workman's time-recorder	553,880	Feb. 4	129	25	74	530
Wakeman, Charles E., Pontiac, Mich. Steam-generator	556,599	Mar. 17	2028	475	74	1540
Walbridge, Henry S., Bennington, Vt. Stereoscope	559,878	May 12	973	217	75	879
Walbridge, Henry S., North Bennington, Vt. Stereoscope	561,930	June 9	1540	{ 372 373 }	{ 75 75 }	1686
Walburn, Joseph H. (See Herne, William, assignor.)						
Walda, William C., Fort Wayne, Ind. Sash-weight	571,813	Nov. 24	2452	584	77	1156
Waldo Foundry. (See Gooch, Frank A., assignor.)						
Waldo, Francis S., assignor of one-half to W. J. Cunningham, Brooklyn, N. Y. Apparatus for supplying aerated liquids with sirup during bottling	560,826	May 26	2725	{ 625 626 }	{ 75 75 }	1271
Waldron, Francis X., Jersey City, N. J., and J. Paquet, Brooklyn, N. Y. Support for umbrellas, canes, &c.	569,257	Oct. 13	933	224	77	194
Waldron, Frederick A., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Differential pulley-block	561,246	June 2	287	72	75	1423
Waldron, William H., New Brunswick, N. J. Reeling-machine for paper or other fabrics	570,355	Oct. 27	2926	695	77	591
Waldron, William J., Fort Worth, Tex. Angle-cock	566,636	Aug. 25	3018	738	76	1240
Waldurff, Eugene C., Buffalo, N. Y. Animal-trap	553,372	Jan. 21	1608	383	74	329
Waldurff, Stanton E., Rose, N. Y. Relief trip-lever for binding-machines	565,651	Aug. 11	1297	313	76	877
Wale, William, London, England. Case for containing sugar or the like	555,134	Feb. 25	2378	564	74	997
Wales, Thomas C., Jr., assignor to American Bell Telephone Company, Boston, Mass. Trunk-line for telephone-exchanges	552,735	Jan. 7	423	107	74	81
Wales, Thomas C., Jr., Boston, Mass., and T. Spencer, Philadelphia, Pa., assignors to American Bell Telephone Company, Boston, Mass. Telephone switchboard and circuit	552,734	Jan. 7	420	107	74	81
Wales, Thomas C., Jr., and C. H. Arnold, assignors to American Bell Telephone Company, Boston, Mass. Telephone-circuit line-signal	573,117	Dec. 15	1809	436	77	1662
Walker, Albert H., trustee, et al. (See Lorenz and Claussen, assignors.)						
Walker, Alexander. (See Southwick and Walker.)						
Walker, Arthur W., Malden, Mass. Cooking-stove	561,364	June 2	532	134	75	1472
Walker, Ben, Jr., Austin, Tex. Churn	563,817	Aug. 11	1583	386	76	930
Walker, Charles F., Chicago, Ill. Bicycle-lamp bracket	570,240	Oct. 27	2685	638	77	547
Walker, Charles M., assignor to Walker Manufacturing Company, Adrian, Mich. Pencil-sharpener	554,608	Feb. 11	1431	336	74	787
Walker, Charles W., Bridgeport, Conn., assignor to Yost Writing Machine Company, New York, N. Y. Type-writing machine	568,645	Sept. 29	3382	810	76	1967
Walker, Charles W., Bridgeport, Conn., assignor to Yost Writing Machine Company, New York, N. Y. Type-writing machine	572,737	Dec. 8	1153	272	77	1517
Walker, Charles W., Bridgeport, Conn., assignor to Yost Writing Machine Company, New York, N. Y. Type-writing machine	572,845	Dec. 8	1329	320	77	1551
Walker, David, Newark, N. J. Step-cover for stairs	564,730	July 28	2609	622	76	529
Walker, David A., Cincinnati, Ohio. Machine for shaping surfaces of road-beds	561,633	June 9	1023	{ 245 246 }	{ 75 75 }	1588
Walker, Doss. (See Hoskins and Walker.)						
Walker, Edmund W. H. (See Cleathero, Edward T., assignor.)						
Walker, Edward P., Kansas City, Mo. Clothes-line prop	557,733	Apr. 7	377	83	75	71
Walker, Edwin, Erie, Pa. Cork-puller	557,734	Apr. 7	378	88	75	72
Walker, Fred L. (See Porter, Benjamin, assignor.)						
Walker, George, and W. Pearce, assignors to Atwater Manufacturing Company, Plantsville, Conn. Mole-trap	554,901	Feb. 18	1948	458	74	902
Walker, George L. (See Hunt and Walker.)						
Walker, Henry A., Denver, Colo. Placer-machine	553,817	Jan. 28	2363	{ 562 563 }	{ 74 74 }	485
Walker, Hiram, Isle aux Peches, Canada. Shock-cover for grain, &c.	559,010	Apr. 28	2621	639	75	544
Walker, Irvin B., and L. G. Nilson, Sioux City, Iowa. Rail-bond	572,668	Dec. 8	1017	246	77	1492
Walker, James, London, England. Rod-packing	556,600	Mar. 17	2030	475	74	1341
Walker, James C., Waco, Tex. Life-boat	561,456	June 2	704	{ 173 174 }	{ 75 75 }	1503
Walker, James L. (See Rarick and Walker.)						
Walker, John, Chicago, Ill. Crusher-mill	564,039	July 14	1408	327	76	276
Walker, John B., Helena, Ala. Shingle-sawing machine	557,458	Mar. 31	3519	{ 841 842 }	{ 74 74 }	1859
Walker, Joseph. (See Davidson and Walker.)						
Walker, Joseph, Clark's Green, assignor of part to H. N. Patrick, G. W. Beemer, Clark's Summit, P. S. Page, C. C. Stackhouse, F. H. Jermey, G. M. Carpenter, F. E. Stone, P. S. Page, Scranton, E. Miles, Dalton, and G. E. Stevenson, Waverly, Pa. Rotary engine	556,227	Mar. 10	1324	310	74	1394
Walker, Joseph C., Lewistown, Mont. Wire-stretcher	569,897	Oct. 20	2066	491	77	417
Walker, Joseph H., Grand Rapids, Mich. Casket	570,356	Oct. 27	2927	696	77	591
Walker, Louis A., New York, N. Y. Bag-fastener	557,175	Mar. 31	3006	718	74	1766
Walker, Louis A., Port Jefferson, assignor to C. S. Mitchell, New York, N. Y. Snap-hook	559,640	May 5	496	114	75	777
Walker, Louis B. (See Fielding and Walker.)						
Walker Manufacturing Company. (See Walker, Charles M., assignor.)						
Walker, Oakley S., Worcester, Mass. Magnetic chuck	564,296	July 21	1864	436	76	375
Walker, Robert, London, England. Building construction	565,580	Aug. 11	1167	240	76	852
Walker, Robert F., Limerick, Ireland. Cartridge-carrier	568,220	Sept. 22	2618	629	76	1811
Walker, Robert J., Philadelphia, Pa. Elevator safety-door	556,226	Mar. 10	1323	310	74	1393
Walker, Robert L., Pittsburg, Pa. Furnace	567,525	Sept. 8	1382	{ 332 333 }	{ 76 76 }	1548
Walker, Thomas, and R. R. Cook, Philadelphia, Pa. Air-brake	569,258	Oct. 13	935	224	77	194
Walker, Thomas H. (See Cotter and Walker.)						
Walker, Thomas H., Philadelphia, Pa. Cycle-stand	556,789	Mar. 24	2351	{ 553 554 }	{ 74 74 }	1619

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Walker, William, Mayfield, Pa. Axle-box.....	561,457	June 2	708	174	75	1503
Walker, William A., Kokomo, Ind. Harness-saddle.....	555,592	Mar. 3	181	42	74	1163
Walker, William E., Pass Christian, Miss. Dental facial clinometer.....	566,948	Sept. 1	364	85	76	1352
Walker, William E., Pass Christian, Miss. Dental articulator.....	566,949	Sept. 1	366	85	76	1352
Walker, William E., Pass Christian, Miss. Dental articulator.....	566,950	Sept. 1	368	86	76	1352
Walker, William S., Jr. (See Beckwith, David O., assignor.)						
Walkinshaw, Hugh, and J. Kapp, Lebanon, Mo. Attachment for sales-counters.....	571,252	Nov. 10	1481	347	77	942
Wall, Frank R., <i>et al.</i> (See Banwell, James, assignor.)						
Wall, George H. (See Dewrance and Wall.)						
Wall, George H., Cadillac, Mich. Baggage-loader.....	565,711	Aug. 11	1393	339 } 340 }	76	896
Wall, James H., New York, N. Y. Dashboard for vehicles.....	561,365	June 2	535	135	75	1473
Wall, Ormond E., Honolulu, Hawaii. Dental plugger.....	558,443	Apr. 14	1646	396	75	329
Wall, Robert F., Menominee, Mich. Spring-pedal.....	553,797	Jan. 28	2322	551	74	478
Wall, William. (See Young, Tapley W., assignor.)						
Walla, Jens G., <i>et al.</i> (See Sivertson, Lucas, assignor.)						
Walla, John A., <i>et al.</i> (See Sivertson, Lucas, assignor.)						
Wallace, Charles C., Oneonta, N. Y. Thill-coupling.....	554,325	Feb. 11	943	217	74	694
Wallace, David S., assignor to Wallace Plumbing Improvement Company, Denver, Colo. Water-closet.....	558,130	Apr. 14	1108	271	75	227
Wallace, De Witt C., assignor of one-half to E. K. Bonds, Paducah, Ky. Cooking-stove.....	553,274	Jan. 21	1429	346	74	296
Wallace, De Witt C., assignor of one-half to J. J. Bornschein, Paducah, Ky. Bicycle-sup-port.....	574,292	Dec. 29	4021	955	77	2101
Wallace, Emilus F., Syracuse, N. Y. Hose-coupling.....	563,898	July 14	1159	272	76	232
Wallace, Francis C., Washington, D. C. Bill-file.....	562,444	June 23	2422	587	75	1886
Wallace, George A. (See Ewing, Reuben H., assignor.)						
Wallace, James F. (See Wolf, Johnson, and Wallace.)						
Wallace, John, Bombay, India. Hygroscopic regulator for humidifiers.....	567,209	Sept. 8	827	196 } 197 }	76	1450
Wallace, John E., Altoona, Pa. Hot-water heater.....	558,444	Apr. 14	1649	396	75	339
Wallace Manufacturing Company. (See Cunningham, William R., assignor.)						
Wallace Plumbing Improvement Company. (See Wallace, David S., assignor.)						
Wallace, Roger W. (See Freudenberg, Moise, assignor.)						
Wallace, Roger W., assignor to Electro Metallurgical Company, Limited, London, Eng-land. Producing alloys of iron and chromium.....	567,757	Sept. 15	1783	.....	76	1642
Wallace, Thomas, Ansonia, Conn. Rail-bond.....	564,415	July 21	2067	484	76	413
Wallace, Thomas L., assignor to E. C. Atkins & Company, Indianapolis, Ind. Metal-polish-ing machine.....	564,668	July 28	2498	590	76	509
Wallace, Thomas L., and J. A. Reed, assignors to E. C. Atkins & Company, Indianapolis, Ind. Saw-filing machine.....	561,147	June 2	125	33 } 35 }	75	1390
Wallace, Thomas L., and R. Coyle, assignors to E. C. Atkins & Company, Indianapolis, Ind. Saw-filing machine.....	565,947	Aug. 18	1831	445 } 446 }	76	997
Wallace, Thomas L., and R. Coyle, assignors to E. C. Atkins & Company, Indianapolis, Ind. Saw-filing machine.....	565,948	Aug. 18	1837	446 } 447 }	76	998
Wallace, William W., assignor to J. W. Penfield & Son, Willoughby, Ohio. Brick-re-press-ing machine.....	555,349	Feb. 25	2752	644 } 645 }	74	1067
Wallace, William W., assignor to J. W. Penfield & Son, Willoughby, Ohio. Machine for manufacturing sewer-pipe.....	555,838	Mar. 3	579	139 } 140 }	74	1235
Wallas, Thomas L., London, England. Tooth or other brush.....	560,663	May 26	2450	561	75	1216
Waller, Francois G., Delft, Netherlands. Apparatus for collecting gases.....	570,357	Oct. 27	2923	696	77	591
Waller, William A. C., London, England. Tile.....	573,939	Dec. 29	3326	794	77	1976
Walling, David C., Kendallville, Ind. Wind-engine.....	565,191	Aug. 4	453	108 } 109 }	76	700
Wallingford, William A., Bloomington, Ind. Washing-machine.....	567,368	Sept. 8	1140	273	76	1504
Wallis, Adelbert J., Columbus, Ohio. Bottle-display case.....	570,972	Nov. 10	996	231	77	852
Wallis, Edward N., Philadelphia, Pa. Means for increasing adhesion of belts and pulleys.....	566,637	Aug. 25	3019	738	76	1240
Wallis, Edward N., Philadelphia, Pa. Means for increasing adhesion of belts and pulleys.....	566,638	Aug. 25	3021	738	76	1240
Walmer, Amos S., Palmyra, Pa. Calendar.....	553,323	Jan. 21	1522	364	74	312
Walmsley, Ben. (See Smith, William T., assignor.)						
Walmsley, Fuller & Company. (See Fuller, Henry F., assignor.)						
Walmsley, Thomas B., New York, N. Y. Blowpipe.....	553,742	Jan. 28	2247	532	74	464
Walp, James, Easton, Pa. Grate.....	560,827	May 26	2727	626	75	1271
Walrand, Charles, and E. Legonisel, Paris, France. Manufacturing steel. (Reissue).....	11,570	Sept. 29	3527	.....	76	1996
Walsh, Carrie, <i>et al.</i> (See Walsh, James R., assignor.)						
Walsh, Edward S., New York, N. Y. Construction of dry-docks.....	561,458	June 2	709	174	75	1503
Walsh, Francis A., Milwaukee, Wis. Sheet-metal vessel.....	558,129	Apr. 14	1107	270 } 271 }	75	227
Walsh, Francis A., Milwaukee, Wis. Closure for vessels.....	571,814	Nov. 24	2455	584	77	1157
Walsh, James J., J. T. Mooney, and T. F. Jordan, Olyphant, Pa. Clothes line and pin.....	561,634	June 9	1025	246	75	1589
Walsh, James R., assignor to C. Walsh and P. Feldhauser, Denver, Colo. Turn-down-col-lar shaper.....	571,606	Nov. 17	2082	500	77	1066
Walsh, John E., New York, N. Y. Combined apparatus for separating and handling refuse of cities.....	560,382	May 19	1910	434	75	1103
Walsh, John E., New York, N. Y. Supply-wagon.....	562,162	June 16	1949	473	75	1781
Walsh, John H. (See Stoddard, Oscar, assignor.)						
Walsh, John J., Yonkers, N. Y. Cap to prevent refilling bottles.....	555,348	Feb. 25	2751	644	74	1067
Walsh, John J., Yonkers, N. Y. Combined eraser, pencil-holder, and letter-scale.....	561,635	June 9	1026	246	75	1589
Walsh, John J., Yonkers, N. Y. Music-leaf turner.....	565,308	Aug. 4	664	160	76	738
Walsh, Lawrence C., and R. T. Todd, Lawrence, Mass. Device for branding cigars.....	573,730	Dec. 22	2963	702	77	1893
Walsh, Richard, and C. Williamson, Newport News, Va. Lamp-shade.....	555,135	Feb. 25	2379	565	74	997
Walsh, Sara E., Lightcliffe, England. Traveling or camping-out rug and bed.....	559,641	May 5	499	114	75	777
Walsh, William J. (See Fleming and Walsh.)						
Walter, Bertha, Dresden, Germany. Garment-supporter.....	554,609	Feb. 11	1433	336	74	787
Walter, Charles A., and S. E. Fowler, Anna, Ill. Mitering-machine.....	565,652	Aug. 11	1298	313	76	877
Walter, Ernest F., Hoboken, N. J. Handsaw.....	563,921	July 7	484	114	76	92
Walter, George M. (See Glentworth, Charles E., assignor.)						
Walter, John H. (See Dewey, Frederic P., assignor.)						
Walter, John W., Valeria, Iowa. Neck-yoke.....	554,751	Feb. 18	1675	395	74	850
Walter, Julius, Philadelphia, Pa. Dice-box.....	560,874	May 26	2832	648	75	1290
Walter, Lyman P., Chicago, Ill. Inhaler.....	556,228	Mar. 10	1326	311	74	1394
Walter, William, Bridgeport, Pa. Combined fender, brake mechanism, and trolley-arm-operating device for cars.....	563,338	July 7	188	42	76	38

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Walters, Charles. (See Neugroschl and Walters.)						
Walters, Charles W. and W. L., Denver, Colo. Financial instrument for use of bankers, &c.	555,230	Feb. 25	2536	{ 597 598	{ 74	1027
Walters, Frank A., Denver, Colo. Automatic coal-recording system for railways	553,632	Jan. 28	2048	485	74	427
Walters, Jacob W., <i>et al.</i> (See Holder, William H., assignor.)						
Walters, James M. H. and U. G. S., Pottstown, Pa. Press	554,847	Feb. 18	1844	434	74	883
Walters, Loren B., and K. Cadwalader, Georgetown, Tex. Washing-machine	554,553	Feb. 11	1325	310	74	767
Walters, Ulysses G. S. (See Walters, James M. H. and U. G. S.)						
Walters, William L. (See Walters, Charles W. and W. L.)						
Waltham Manufacturing Company. (See Metz, Charles H., assignor.)						
Walther, Theodore A. (See Grosse and Walther.)						
Walton, Andrew, Huntington, Ind., assignor of one third to S. Langley, Chicago, Ill. Adjustable curtain bracket and support	569,898	Oct. 20	2068	{ 491 492	{ 77	417
Walton, Charles H., <i>et al.</i> (See Richard on, William H., assignor.)						
Walton, Charles W., <i>et al.</i> (See Taylor, Call, assignor.)						
Walton, Dayton D., J. Barker, and H. Van Dyke, assignors to F. Macey, Grand Rapids, Mich. Type-writer cabinet	569,259	Oct. 13	937	224	77	194
Walton, Frederick, London, England. Process of and apparatus for oxidizing oils	557,457	Mar. 31	3518	{ 840 841	{ 74	1859
Walton, Freeman T., Portland, Me. Trolley	570,740	Nov. 3	598	137	77	748
Walton, George B., Suffolk, Va. Machine for producing veneer-patterns	558,883	Apr. 21	2399	585	75	485
Walton, George O., Easton, Pa. Strainer	569,260	Oct. 13	938	225	77	195
Walton, Herbert L., Minneapolis, Minn. Automatic switch-lock for railways	562,990	June 30	3406	{ 818 819	{ 75	2094
Walton, James E. and J. G., Shirley, Mo. Vehicle-brake	564,669	July 28	2500	591	76	510
Walton, James T. (See Stall and Walton.)						
Walton, John G. (See Walton, James E. and J. G.)						
Walton, Susan A. (See Pratt, George W., assignor.)						
Walton, William, <i>et al.</i> (See Richardson, William H., assignor.)						
Walton, William, Closter, N. J. Hook and eye	568,221	Sept. 22	2620	630	76	1811
Wambaugh, Mahlon W. (See Eldridge, Clark, and Wambaugh.)						
Wambaugh, Mahlon W., Galveston, Tex. Rail-joint	570,618	Nov. 3	341	64, 85	77	701
Wambold, Harry E., Appleton, Wis. Dandy-roll frame	566,825	Sept. 1	151	35	76	1311
Wander, Frank G., assignor of one-fourth to C. Schafer, Washington, D. C. Combined cigarette-slide and match-box	558,445	Apr. 14	1652	397	75	330
Wands, John C., St. Louis, Mo. Car-truck	554,469	Feb. 11	1197	279	74	743
Wands, John C., St. Louis, Mo. Car-bolster	558,446	Apr. 14	1653	397	75	330
Wands, John C., St. Louis, Mo. Car-truck	561,459	June 2	711	175	75	1504
Wands, John C., St. Louis, Mo. Car-truck	562,262	June 16	2105	{ 510 511	{ 75	1810
Wankel, Frank, assignor of one-half to W. Geppert, Brooklyn, N. Y. Door-check	565,100	Aug. 4	259	62	76	664
Wanner, Albert, Jr., Hoboken, N. J. Gas-burner	567,870	Sept. 15	1973	473	76	1679
Wanner, Isaac, Vera Cruz, Ind. Rotary engine	569,693	Oct. 20	1713	406	77	354
Waples, Rufus, Jr., New York, N. Y. Umbrella-cane	558,867	Apr. 21	2367	578	75	478
Waples, Rufus, Jr., Philadelphia, Pa. Umbrella	569,569	Oct. 13	1479	348	77	294
Ward, Alexander F., Memphis, Tenn., assignor of two-thirds to T. S. Christie and J. G. Dietz, Detroit, Mich. Electric signal-lamp	556,946	Mar. 24	2604	612	74	1665
Ward, Anthony, assignor, by mesne assignments, of one-half to F. O. Haubner, New York, N. Y. Warp-machine for knitting trimming	556,874	Mar. 24	2492	588	74	1646
Ward, Barton B., New York, N. Y. Electric-arc lamp	564,907	July 23	2897	694	76	581
Ward, Charles. (See Gilyard and Ward.)						
Ward, Charles, Charleston, W. Va. Safety device for steam-boilers	565,149	Aug. 4	372	86	76	686
Ward, Charles E., West Milford, assignor of one-half to D. L. Hall, Sycamore Dale, W. Va. Car-coupling	556,791	Mar. 24	2353	554	74	1619
Ward, Edward L. C. (See Bentley, Dozier T., assignor.)						
Ward, Edward L. C. (See Lowman, Benjamin J., assignor.)						
Ward, Edward L. C., Atlanta, Ga. Self-identifying check, draft, order, &c.	569,364	Oct. 13	1119	{ 266 267	{ 77	230
Ward, Eugene, St. Paul, Minn. Ice-velocipede	567,526	Sept. 8	1383	333	76	1549
Ward, Frank O., Philadelphia, Pa. Length-adjusting device for neckwear, &c.	560,308	May 19	1780	405	75	1079
Ward, Frederick D., Welshpool, England, assignor to W. T. Blaine, St. Louis, Mo. Book-marker	565,818	Aug. 11	1584	387	76	930
Ward, George A. (See Aldrich, George W., assignor.)						
Ward, George C., Fort Worth, Tex. General index and alphabetical record	564,670	July 23	2502	{ 591 592	{ 76	510
Ward, George C., Fort Worth, Tex. Document file-case	568,646	Sept. 29	3387	811	76	1968
Ward, James A., assignor of one-half to T. J. and F. M. Hauck, Delta, Idaho. Car-coupling	560,606	May 19	2291	525	75	1172
Ward, John E., Waverly, N. Y. Nut-lock	571,871	Nov. 24	2560	606	77	1176
Ward, John H., Middletown, Conn. Door stop and retainer	564,237	July 21	1765	412	76	359
Ward, John W., New Orleans, La. Water-tube boiler	566,826	Sept. 1	152	36	76	1311
Ward, Joseph T., Philadelphia, Pa. Car-fender	572,587	Dec. 8	879	212	77	1464
Ward, Marcus P., <i>et al.</i> (See Angell, Albert, assignor.)						
Ward, Orin A. (See Denton, Lemli B., assignor.)						
Ward, Theodore A., J. R. Turner, and J. W. Kendall, Tacoma, Wash. Advertisement-wagon	569,982	Oct. 20	2215	526	77	444
Ward, Thomas N., Henderson, and M. Crahen, Princeton, Ky. Track and wheel gage	566,790	Mar. 24	2352	554	74	1619
Ward, William H., Mound City, Kans. Burglar-alarm	567,845	Sept. 15	1939	464	76	1671
Warden, Leonard. (See Wood, Joseph, assignor.)						
Warder, Bushnell & Glessner Company. (See Hensch, Anton, assignor.)						
Wardwell, Fred S., Danbury, Conn. Press	566,827	Sept. 1	154	36	76	1311
Wardwell, Simon W., Jr., Boston, Mass. Wrench	573,940	Dec. 29	3328	{ 794 795	{ 77	1976
Wardwell, Simon W., Jr., Providence, R. I. Wrench	573,941	Dec. 29	3329	795	77	1976
Wardwell, Simon W., Jr., Boston, Mass., assignor, by mesne assignments, to Universal Winding Company, Portland, Me. Machine for winding shuttle-cops	555,790	Mar. 3	497	{ 120 121	{ 74	1220
Wardwell, Simon W., Jr., Boston, Mass., assignor to Universal Winding Company, Portland, Me. Cop-winding machine	562,263	June 16	2110	{ 511 512	{ 75	1811
Wardwell, Simon W., Jr., Boston, Mass., assignor to Universal Winding Company, Portland, Me. Apparatus for winding cops	567,871	Sept. 15	1974	474	76	1679
Wardwell, Simon W., Jr., Boston, assignor to J. R. Leeson, Newton, Mass. Shuttle for sewing-machines	563,824	July 14	1003	238	76	204
Wardwell, Theodore E., Stamford, Conn. Tab for attaching cuffs	568,505	Sept. 29	3099	747	76	1915

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Ware, Joseph H. (See Whitcomb and Ware.)						
Warfield, Louis, Detroit, Mich. Motor-truck	553,022	Jan. 14	976	236	74	196
Waring, George E., Jr., New York, N. Y. Hydraulic air-compressing apparatus	562,052	June 16	1758	425	75	1747
Waring, John B., New York, N. Y. Ore-concentrator	556,567	Mar. 17	1975	461	74	1531
Waring, John B., Newark, N. J., assignor to H. M. Livor, New York, N. Y. Scraper for brooms	568,552	Sept. 29	3202	771	76	1933
Waring, John B., Newark, N. J., and H. R. Cassel, New York, N. Y. Centrifugal filter	568,821	Oct. 6	184	44	77	37
Waring, John T. (See Waring, Pierre C., assignor.)						
Waring, Pierre C., assignor to J. T. Waring, Yonkers, N. Y. Device for supporting hats in stacks	572,284	Dec. 1	348	83	77	1346
Waring, Thomas, Camden, N. J. Pencil-sharpener	573,731	Dec. 22	2965	702	77	1894
Warlick, James. (See Davis and Warlick.)						
Warman, John I., and C. Winter, Chicago, Ill. Apparatus for making wheel-hubs from tubular blanks	567,328	Sept. 8	1066	254 255	76	1491
Warn, Edward T., assignor of two-thirds to F. Pick and C. Drosch, Maiden, Mont. Ratchet-wrench	573,732	Dec. 22	2967	702	77	1894
Warncke, Henry C., Chicago, Ill. Painter's guard	554,403	Feb. 11	1070	250	74	719
Warner, Adelbert J. (See Donahue, Thomas, assignor.)						
Warner, Adelbert J., Chicago, Ill. Keyhole-bearing	554,807	Feb. 18	1770	416	74	868
Warner, Albert C. (See Pierce and Warner.)						
Warner, Albert R. (See Field and Warner.)						
Warner Brothers Company. (See Gould, Wallace W., assignor.)						
Warner, De Ver H., Bridgeport, Conn. Dress-shield	560,289	May 19	1742	396	75	1074
Warner, De Ver H., Bridgeport, Conn. Hose-supporter	562,504	June 23	2508	608	75	1902
Warner, De Ver H., Bridgeport, Conn. Hose-supporter	565,127	Aug. 4	309	74	76	674
Warner, Ernest P. (See Scribner and Warner.)						
Warner, Ernest P., assignor to Western Electric Company, Chicago, Ill. Electric elevator-controller	555,136	Feb. 25	2381	565	74	998
Warner, Ernest P., assignor to Western Electric Company, Chicago, Ill. Cut-out for electric motors	565,867	Aug. 11	1684	412	76	951
Warner, George, Dearborn, Mont. Gate	557,921	Apr. 7	699	168	75	132
Warner, George W., Freeport, Ill. Door-spring	567,329	Sept. 8	1069	255	76	1492
Warner, George W., assignor of one-half to L. C. Thompson, Rolfe, Pa. Lock for standards or dog attachments of logging-cars	556,230	Mar. 10	1328	311	74	1394
Warner, Henry D., New Britain, Conn. Breast-strap slide	573,559	Dec. 22	2637	626	77	1831
Warner, Isaac M., Batavia, Mich. Wire fence	572,322	Dec. 1	422	100	77	1359
Warner, Jabez F., Prophetstown, Ill. Gun-swab	566,041	Aug. 18	2000	424	76	1031
Warner, Leroy D., Mount Holly, Vt. Game	554,752	Feb. 12	1676	395	74	850
Warner, Theodore M., Albany, N. Y. Pneumatic signal operating device	556,449	Mar. 17	1767	410	74	1493
Warner, William A., J. D. Hays, and W. S. Rogers, said Warner assignor to H. L. Goss, Batavia, Mich. Holdback	556,229	Mar. 10	1327	311	74	1394
Warner, William F., assignor of one-half to W. J. Hilligoss, Muncie, Ind. Electric heater	559,553	May 5	350	84	75	751
Warnock, Robert S. (See Harrington and Warnock.)						
Warren, Aldred K., New Brighton, N. Y. Commutator-brush	571,420	Nov. 17	1758	419	77	1008
Warren, Alva H. (See Ryno, Frederick A., assignor.)						
Warren, Andrew, St. Louis, Mo. Bicycle	571,029	Nov. 10	1093	255	77	870
Warren, Charles C. and H. B., Chicago, Ill. Dynamo-electric machine	562,868	June 30	3179	770	75	2046
Warren, Charles G. (See Warren, John F. and C. G.)						
Warren, Edward B. (See Mueller, John, assignor.)						
Warren, Edward K., and J. H. Holden, Three Oaks, Mich. Corset-stiffener and making same	559,827	May 12	862	191	75	858
Warren, Freemont A., et al. (See Waugh and Older, assignors.)						
Warren, George E. (See Fowler and Warren.)						
Warren, George E., Detroit, Mich. Signal-lamp	556,170	Mar. 10	1223	285	74	1375
Warren, Governor D. (See McClellan and Warren.)						
Warren, Halbert E. (See Warren, Charles C. and H. B.)						
Warren, Harry. (See Ingraham, Charles W., assignor.)						
Warren, Herbert C., Hartford, Conn. Machine for generating gear-teeth	559,011	Apr. 28	2622	639 640	75	544
Warren, Herbert C., Hartford, Conn. Fastening device	559,012	Apr. 28	2631	641	75	545
Warren, James F. (See Rogers and Warren.)						
Warren, John D., Chicago, Ill. Display-drawer attachment for pigeonholes	567,820	Sept. 15	1894	453	76	1663
Warren, John D., assignor of one-half to G. D. Perrin, Worcester, Mass. Canopy-shade for chimneys	560,664	May 26	2451	561	75	1216
Warren, John F. and C. G., Worcester, Mass. Picker-staff strap for looms	572,140	Dec. 1	84	18	77	1294
Warren, Marion, Rochester, N. Y. Filling and bunging apparatus	554,806	Feb. 18	1767	415 416	74	868
Warren, Marion, Rochester, N. Y. Apparatus for racking beer	557,735	Apr. 7	380	88, 89	75	72
Warren, Marion, Rochester, N. Y. Apparatus for racking beer	558,131	Apr. 14	1112	271	75	228
Warren, Newton L., Springfield, Ohio. Boiler	569,477	Oct. 13	1296	305	77	261
Warren, Otho A. (See Fannen, James, assignor.)						
Warren-Scharf Asphalt Paving Company. (See Puffer, Frederic E., assignor.)						
Warren Webster & Company. (See Leitch, Meredith, assignor.)						
Warren, William B., Peoria, Ill. Locomotive-boiler	557,459	Mar. 31	3521	842	74	1860
Warren, William E., Victor, N. Y. Attachment for increasing diameter of sprocket-wheels	570,690	Nov. 3	512	119	77	733
Warrington, George O. (See Stadtfeld, Charles, assignor.)						
Warsow, Robert, Philadelphia, Pa. Safety watch-guard	567,425	Sept. 8	1229	295	76	1520
Warstler, Levi, Louisville, Ohio. Grave-vault	564,354	July 21	1959	461	76	392
Warwick Cycle Manufacturing Company. (See Smith, Mathew A., assignor.)						
Warwick, George T., Newark, N. J. Compound reinforced tubing	569,261	Oct. 13	939	225	77	195
Warwick, George T., Newark, N. J. Compound tube	574,184	Dec. 29	3414	911	77	2062
Warzée, Emile, Brussels, Belgium. Precipitating iron from solutions containing iron and zinc	556,568	Mar. 17	1977		74	1531
Washburn, Albion K., Bridgewater, Mass. Sole-leveling machine	561,035	May 26	3091	712 713	75	1339
Washburn, Arthur H., assignor of one-half to R. A. Perkins, Brockton, Mass. Electric-current regulator and distributor	564,951	July 28	2998	714	76	599
Washburn, Charles N., and J. V. R. Ferris, Brooklyn, N. Y.; said Washburn assignor to said Ferris. Car-fender	566,256	Aug. 18	2349	575 576	76	1096
Washburn, Edwin C., Minneapolis, Minn. Car-coupling	556,035	Mar. 10	969	232	74	1329
Washburn, Edwin C., Minneapolis, Minn. Car-coupling	556,036	Mar. 10	970	232 233	74	1329
Washburn, George P., McGregor, Iowa. Boiler	571,713	Nov. 17	2259	542	77	1100
Washburn, William G., Thomaston, Me. Garment-supporter	561,460	June 2	712	175	75	1504

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Washburne, Isaac T., Sing Sing, N. Y. Pneumatic cotton-elevating system	559,237	Apr. 28	3082	744	75	630
Washburne, James V., Morrison, Ill. Clasp	553,972	Feb. 4	308	69	74	561
Washburne, James V., Waterbury, Conn. Buckle	564,399	July 21	2041	479	76	408
Washburne, James V., assignor of one-half to G. A. Upham, Waterbury, Conn. Buckle	565,868	Aug. 11	1685	413	76	951
Washburne, James V., assignor of one-half to G. A. Upham, Waterbury, Conn. Garment-clasp	565,869	Aug. 11	1687	413	76	951
Washington, George, and C. B. Roberts, Baltimore, Md. Valve for nursing-bottles	564,416	July 21	2068	484	76	413
Washington Venetian Blind Company. (See Brenizer, Warren F., assignor.)						
Washington, William D., New York, N. Y. Method of and apparatus for sinking caissons for pier-foundations, &c.	563,106	June 30	3619	868	75	2135
Wasserman, Henry, <i>et al.</i> (See Lofgreen and Whisler, assignors.)						
Wassman, William H., St. Louis, Mo. Window	555,350	Feb. 25	2755	645	74	1068
Watchorn, John S. (See Shaller and Watchorn.)						
Waterbury Brass Company. (See Wooster, Frederick J., assignor.)						
Waterbury Farrel Foundry and Machine Company. (See Lamb, George B., assignor.)						
Waterbury Machine Company. (See O'Donnell, John H., assignor.)						
Waterbury Machine Company. (See Rhodes, Leverett E., assignor.)						
Waterbury Watch Company. (See Hart, George E., assignor.)						
Waterbury, William W., Mobile, Ala. Necktie-fastener	573,733	Dec. 22	2969	703	77	1895
Waterhouse, Addison G., Hartford, Conn. Core for electromagnets	558,539	Apr. 21	1812	440 441	75	377
Waterhouse, Addison G., Hartford, Conn. Electric meter	561,183	June 2	198	49	75	1404
Waterhouse, Addison G., Hartford, Conn. Electric meter	562,680	June 23	2816	683	75	1959
Waterhouse, Charles J., San Francisco, Cal. Shade-awning for windows.	565,192	Aug. 4	455	109	76	700
Waterhouse, Elmer H. (See Canales, Frank W., assignor.)						
Waterman, Charles, Bozeman, Mont. Weed-puller	562,991	June 30	3408	819	75	2095
Waterman, Ebenezer C., Hanover, Mass. Bicycle-supporting frame	567,625	Sept. 15	1555	375	76	1597
Waterman, Frank W., assignor of one-half to C. De Witt, Baltimore, Md. Bottle-stopper	568,286	Sept. 22	2723	653	76	1831
Waterman, Lewis E., Brooklyn, N. Y. Fountain-pen	559,422	May 5	137	29	75	707
Waterman, Stephen, Providence, R. I. Pen	559,013	Apr. 28	2632	641	75	546
Waters, Charles S., assignor of one-half to J. O. and C. E. Gonser, Wortsville, Ohio. Corn-harvester	553,798	Jan. 28	2323	551 552	74	478
Waters, Charles S., Wortsville, assignor of one-half to C. E. and J. O. Gonser, Payne, Ohio. Corn-harvester	563,522	July 7	485	114 115	76	92
Waters, Daniel A. (See Goodell and Pyott, assignors.)						
Waters, Edward G., <i>et al.</i> (See Kuhlewind, Cornelius, assignor.)						
Waters, George W., Corpus Christi, Tex. Caster attachment for plows	560,952	May 26	2962	680	75	1315
Waters, Gwendoline R., Denver, Colo. Device for use in drying hair on the head	571,960	Nov. 24	2725	644	77	1208
Waters, John A., Stamford, Conn. Apparatus for manufacturing gas	554,326	Feb. 11	944	217 218	74	694
Waters, John J., assignor of one-half to E. J. Fitzharris, Saginaw, Mich. Mechanical movement						
Waters, John T., and G. Clopton, assignors to themselves and W. I. Hobbs, Gainesville, Ga. Cider-press and juice-extractor	570,578	Nov. 3	269	67	77	688
Waters, Patrick J., Bristol, Pa. Car-fender	572,936	Dec. 8	1487	357	77	1583
Waters, Richard B., London, England. Rivet	571,714	Nov. 17	2259	543	77	1100
Waters, Wadsworth F., Johnson, Vt. Butter-worker	555,137	Feb. 25	2384	566	74	998
Waterstraat, Carrie. (See Waterstraat, William T., assignor.)	563,698	July 7	778	184	76	146
Waterstraat, William T., assignor to C. Waterstraat, Chicago, Ill. Window	561,461	June 2	713	175	75	1504
Watken, Hettie C. (See Brady, John L., assignor.)						
Watkins, Edward G. (See Watkins, Gardner A. and E. G.)						
Watkins, Edward G., assignor of one-half to Heywood Brothers & Co., Gardner, Mass. Workman's time-recorder	570,241	Oct. 27	2686	638	77	547
Watkins, Edwin D. (See Norton, Stephen, assignor.)						
Watkins, Gardner A. and E. G., assignors to Heywood Brothers & Co., Gardner, Mass. Adjustable chair-support	555,029	Feb. 18	2172	517 518	74	942
Watkins, James T., Mossy Creek, Tenn. Bedstead-fastening	553,769	Jan. 28	2285	541	74	471
Watkins, Maerne M., Fernwood, Miss. Ratchet-drill	570,973	Nov. 10	997	231	77	852
Watkins, Weston E., assignor to W. A. White, Phelps, N. Y. Device for converting motion	571,296	Nov. 10	1559	370	77	958
Watrous, Thomas A., assignor to Cronk Hanger Company, Elmira, N. Y. Griddle	560,116	May 12	1422	319	75	965
Watrous, Thomas A., assignor of two-thirds to W. V. Elliott, Elmira, N. Y. Thill-coupling	572,141	Dec. 1	85	18	77	1294
Watson, Alexander, Kilmount, Canada. Combined latch and lock	559,471	May 5	213	48	75	723
Watson, Christopher H., Riverside, Cal. Bicycle-seat support	568,593	Sept. 29	3286	789	76	1948
Watson, George A., Toronto, assignor to J. Barclay, Montreal, Canada. Heater	573,170	Dec. 15	1899	457	77	1678
Watson, George W. (See Doble and Watson.)						
Watson, George W., Boston, Mass., assignor to Electric Scale Company, Kittery, Me. Weighing and package-filling machine	556,231	Mar. 10	1329	311 312 313	74	1894
Watson, James, Marinette, Wis. Chimney-top	567,775	Sept. 15	1806	433	76	1646
Watson, James A., <i>et al.</i> (See Anble and Weiss, assignors.)						
Watson, James C. (See Secord, William N., assignor.)						
Watson, James H., Crawfordsville, Ind. Corrugated-metal culvert	559,642	May 5	499	114	75	777
Watson, James M., Clements, assignor of two-thirds to S. E. Yeoman, O. G. Carner, and E. W. Jeffrey, Elmdale, Kans. Wrench	554,157	Feb. 4	659	148	74	625
Watson, John. (See Gibson and Watson.)						
Watson, Joseph, Newark, N. J. Gripper for printing-presses	552,627	Jan. 7	210	58	74	41
Watson, Joseph, assignor to J. Watson & Sons, Leeds, England. Machine for pressing soap	554,753	Feb. 18	1677	395 396	74	851
Watson, Samuel. (See Anderson, George S. and R., assignors.)						
Watson & Sons, Joseph. (See Watson, Joseph, assignor.)						
Watson, William, Bradford, England. Machine for washing fibrous material	565,561	Aug. 11	1167	281	76	852
Watson, William H., Eau Claire, Wis. Case construction	573,942	Dec. 29	3331	795 796	77	1976
Watt, James B., Edwardsville, Ill. Adjustable wheel-tire	565,398	Aug. 4	811	192	76	767
Watt, James H., assignor to Watt Mining Car Wheel Company, Barnesville, Ohio. Car-door fastening for mining-cars	558,447	Apr. 14	1655	397	75	330
Watt Mining Car Wheel Company. (See Maxwell, Anderson, assignor.)						
Watt Mining Car Wheel Company. (See Watt, James H., assignor.)						
Watt, Sern P., assignor of one-half to A. C. Katt, Fort Wayne, Ind. Crank-axle mechanism for bicycles	559,828	May 12	863	192	75	858
Watt, Thomas M., Philadelphia, Pa. Device for facilitating penmanship	563,107	June 30	3622	868	75	2135
Wattenberg, Ferdinand A., New York, N. Y. Dark room	553,743	Jan. 28	2248	532	74	464

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Wattenberg, Ferdinand A., New York, N. Y. Collar-button	553,744	Jan. 28	2249	533	74	464
Watterson, Charles P., Farmington, Utah. Amalgamator	562,681	June 23	2818	{ 683 684	75	1960
Wattis, Edmund O. (See Corey and Wattis.)						
Watts, Frederick L., Springfield, Mo. Adjustable curtain-fixture	553,143	Jan. 14	1189	289	74	239
Watts, Richard J., Cambridge, Mass. Non-refillable bottle	563,339	July 7	189	42	76	39
Watts, William M., Philadelphia, Pa. Car-fender	574,081	Dec. 29	3593	{ 858 859	77	2024
Waugh, Eugene. (See Waugh and Older.)						
Waugh, Jesse S., et al. (See Waugh and Older, assignors.)						
Waugh, Merriweather J., et al. (See Waugh and Older, assignors.)						
Waugh, Robert E. and E., and C. S. Older, Colorado Springs, Colo., assignors of nine- twentieths to J. S. Waugh, W. E. Hitchcock, Omaha, M. J. Waugh, F. A. Warren, Lin- coln, Nebr., and N. C. Robbins, St. Louis, Mo. Dry ore concentrator and separator	570,831	Nov. 3	750	171	77	778
Wax, Joseph H. (See Grogan and Wax.)						
Way, Harry A., Burlington, Vt. Extension-screen	569,073	Oct. 6	613	139	77	117
Wayland, James. (See Scofield and Wayland.)						
Wayland, James, Newark, N. J. Electromagnet	569,262	Oct. 13	940	225	77	195
Wayland, James, Newark, N. J. Railway-signal	569,263	Oct. 13	942	226	77	195
Wayland, James, Newark, N. J. Railway-signal	569,264	Oct. 13	943	226	77	195
Wayland, James, Newark, N. J. Railway-signal	569,265	Oct. 13	945	226	77	196
Wayne, Herbert N., assignor of one-third to E. R. Rand, Newton, Mass. Endless tubular fabric	552,940	Jan. 14	850	{ 205 206	74	173
Wayne, Joseph, Philadelphia, Pa. Show-case fixture	556,483	Mar. 17	1823	424	74	1504
Weakley, William M. (See Parrish, Alonzo, assignor.)						
Weale-Adair Lubricator Company. (See Weale and Adair, assignors.)						
Weale, Henry P., and C. L. Adair, assignors to Weale-Adair Lubricator Company, Boston, Mass. Self-lubricating car-axle box	558,329	Apr. 14	1440	354	75	290
Weatherhead, Edward H., Cleveland, Ohio. Hydraulic air-pump	562,163	June 16	1950	473	75	1781
Weatherhead, Edward H., Cleveland, Ohio. Hydraulic air-pump	562,164	June 16	1952	{ 473 474	75	1782
Weathers, Manley N., Berwick, Canada. Rotary oven-grate	567,179	Sept. 8	787	186	76	1443
Weatherwax, J. Ensign, assignor to R. L. Howard, Worcester, Mass. Tacking-machine	554,470	Feb. 11	1199	279	74	743
Weaver, Albert S., assignor to himself and W. J. Gould, Hamilton, Canada. Two-side- seated bicycle. (Reissue)	11,561	Aug. 4	841	198	76	773
Weaver, Andrus S., Newark, N. Y. Car-coupling	567,527	Sept. 8	1385	{ 333 334	76	1549
Weaver, Arthur F., Philadelphia, Pa. Stone-saw	554,430	Feb. 11	1132	264	74	731
Weaver, Henry B., and H. S. Phillips, Burlington, N. J.; said Phillips assignor to said Weaver. Overhead bicycle-railway	559,238	Apr. 28	3084	{ 744 745	75	631
Weaver, Henry M. (See Barr and Weaver.)						
Weaver, Henry M., Mansfield, Ohio. Road-scraper	553,881	Feb. 4	130	25, 26	74	530
Weaver, Henry M., Mansfield, Ohio. Catch for cash and package carriers	567,180	Sept. 8	789	186	76	1443
Weaver, Henry M., assignor to Barr Cash and Package Carrier Company, Mansfield, Ohio. Basket bail or fork	570,438	Oct. 27	3090	{ 734 735	77	622
Weaver, Henry M., and S. W. Barr, Mansfield, Ohio. Cash and package carrier	553,548	Jan. 29	1908	452	74	401
Weaver Jacquard and Electric Shuttle Company. (See Weaver, William, assignor.)						
Weaver, John R., assignor of one-half to E. Gilbreath, Guntersville, Ala. Clamp	554,808	Feb. 18	1770	417	74	868
Weaver, John W., Richmond, Va. Toy	565,309	Aug. 4	665	160	76	738
Weaver, Julius M., Fall River, Mass. Apparatus for leveling silk thread	570,691	Nov. 3	513	119	77	733
Weaver, Martin L., assignor of one-half to B. B. Babcock, Hornellsville, N. Y. Brake-pipe coupling	563,108	June 30	3623	868	75	2135
Weaver, Oscar B., Williamsport, Pa. Burglar-alarm	567,872	Sept. 15	1977	474	76	1679
Weaver, Philip, and N. S. Haller, Allegheny, Pa. Display-stand	571,961	Nov. 24	2726	644	77	1209
Weaver, William, assignor to Weaver Jacquard and Electric Shuttle Company, Norwalk, Conn. Loom	561,841	June 9	1403	{ 336 337	75	1659
Webb, Albert, Worcester, G. M. Whittall, and F. B. Fawcett, Kidderminster, England. Pile fabric	573,118	Dec. 15	1811	436	77	1663
Webb, George B., New York, N. Y., assignor, by mesne assignments, to Wyckoff, Seam- ans & Benedict, of New York. Type-writing machine	555,138	Feb. 25	2385	566	74	998
Webb, George B., assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Hasp-fas- tener	563,434	July 7	338	76	76	66
Webb, George B., assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type- writing machine	567,799	Sept. 15	1850	{ 444 445	76	1654
Webb, George B., assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type- writing machine	570,523	Nov. 3	154	37, 38	77	667
Webb, George B., assignor to Yost Writing Machine Company, New York, N. Y. Type- writing machine	559,089	Apr. 28	2764	{ 669 670	75	571
Webb, George H., and J. Clare, Pawtucket, R. I.; said Clare assignor to said Webb. Ma- chine for threading nuts	570,193	Oct. 27	2592	616	77	529
Webb, Harry C., Tacoma, Wash. Machine-gun	569,899	Oct. 20	2069	{ 492 493	77	417
Webb, Herbert L., New York, N. Y., assignor to Electric Selector and Signal Company, of West Virginia. Selecting and operating telephones	555,984	Mar. 10	867	{ 205 206	74	1313
Webb, Herbert L., New York, N. Y., assignor to Electric Selector and Signal Company, of West Virginia. Signaling device	566,951	Sept. 1	370	86	76	1353
Webb, Paul L., assignor of one-half to L. B. Taylor, Washington, D. C. Knockdown box	562,682	June 23	2820	684	75	1960
Webb, Robert D., Minden, La. Cotton-press	566,431	Aug. 25	2886	656	76	1177
Webb, Thomas J. (See Davis and Webb.)						
Webber, G. W., et al. (See Roberts, William J., assignor.)						
Webber, James A., Lynn, Mass., assignor to General Electric Company, of New York. Form for winding armature-coils	561,636	June 9	1028	247	75	1529
Webber, John B., Toledo, Ohio, assignor to Vulcan Iron Works Company, of Ohio. Steam shovel or excavator	557,350	Mar. 31	3340	802	74	1826
Webber, Joseph L., Syracuse, N. Y. Fire-extinguishing composition	569,731	Oct. 20	1791	.....	77	367
Webber, Scott, Pigeon Cove, Mass. Platform dumping-car	552,799	Jan. 7	556	135	74	105
Webber, Wesley, Pittsburg, Pa. Bicycle training device	553,373	Jan. 21	1610	384	74	329
Webber, Wesley, Pittsburg, Pa. Bicycle training device	554,754	Feb. 18	1679	396	74	851
Webber, William O., Boston, Mass. Vertical boiler	556,293	Mar. 10	1478	344	74	1423
Weber, Aaron M., Oshkosh, Wis. Combined dress-facing and skirt-binding	562,943	June 30	3317	798	75	2076
Weber, Aaron M., Oshkosh, Wis. Skirt-binding	562,992	June 30	3411	819	75	2095
Weber, Aaron M., Oshkosh, Wis. Hook and eye	567,528	Sept. 8	1388	334	76	1550
Weber, Albert A., San Francisco, Cal. Car-axle box	564,856	July 28	2827	675	76	568
Weber, Albert R., assignor to J. Gascoine, Brooklyn, N. Y. Non-refillable bottle	570,524	Nov. 3	157	38	77	667

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Weber, Bruno, Chicago, Ill., assignor to Pope Manufacturing Company, Portland, Me., and Hartford, Conn. Tire	558,132	Apr. 14	1113	271	75	228
Weber, Carl S., New York, N. Y. Manufacture of wire-glass	555,351	Feb. 25	2756	645	74	1068
Weber, Charles G., assignor of one-third to J. H. Bromwell, Cincinnati, Ohio. Election-booth	573,250	Dec. 15	2045	490	77	1705
Weber, George W., St. Paul, Minn. Collapsible lunch-box	566,042	Aug. 18	2001	4-5	76	1031
Weber, Jacob L., Chicago, Ill. Head-protector	552,557	Jan. 7	97	26	74	20
Weber, Johann H. C. F. (See Wermanu and Weber.)						
Weber, John, <i>et al.</i> (See Armstrong, Charles M., assignor.)						
Weber, John A., Chicago, Ill. Railway-buffer arrester	555,273	Feb. 25	2617	614	74	1042
Weber, John C. (See Jahant, Augustus, assignor.)						
Weber, John G., Brooklyn, N. Y. Convertible wagon, sleigh, or cabinet	565,310	Aug. 4	669	161	76	739
Weber, Joseph P., South Superior, Wis. Permutation-lock	565,527	Aug. 11	1074	258	76	834
Weber, Peter, assignor of one-fourth to J. Heid, Pittsburg, Pa. Manufacture of railway-car axles	559,239	Apr. 28	3088	745	75	631
Webster & Beach, Incorporated. (See Beach, Ralph H., assignor.)						
Webster, Charles A., assignor of one-half to G. B. McClelland, Oakland, Cal., and M. F. Webster, Spokane, Wash. Coin-holder	573,251	Dec. 15	2047	490	77	1705
Webster, Daniel W., Philadelphia, Pa., assignor to J. P. Camp, trustee. Nozzle	563,630	July 7	663	155	76	124
Webster, Harold A., Haverhill, assignor to J. W. Brooks, trustee, Cambridge, Mass. Nail block or plate for heel-attaching machines	559,554	May 5	352	85	75	751
Webster, Harold A., assignor to H. B. Newton, Haverhill, Mass. Car-fender	560,953	May 26	2965	680	75	1315
Webster, Harold A., assignor to H. B. Newton, Haverhill, Mass. Car-fender	562,942	June 30	3314	798	75	2076
Webster, Harold A., assignor to H. B. Newton, Haverhill, Mass. Car-fender	564,400	July 21	2042	479	76	408
Webster, Harold A., assignor to H. B. Newton, Haverhill, Mass. Car-fender	572,389	Dec. 1	553	131	77	1383
Webster, Harold A., Haverhill, assignor to G. H. P. Flagg, trustee, Boston, Mass. Buffing or polishing device	573,734	Dec. 22	2970	703	77	1895
Webster, Harold A., Haverhill, assignor to G. H. P. Flagg, trustee, Boston, Mass. Buffing or polishing appliance	573,735	Dec. 22	2972	703	77	1895
Webster, Harry S., Philadelphia, Pa. Switch	555,352	Feb. 25	2758	646	74	1068
Webster, John B., Boston, Mass. Automatic regulator for heating apparatus	563,945	July 14	1243	290	76	246
Webster, John T. (See Shortleeve, David, assignor.)						
Webster, Le Roy C., U. S. Navy. Bottle or jug	573,373	Dec. 15	2276	543	77	1747
Webster, Milton F., <i>et al.</i> (See Webster, Charles A., assignor.)						
Webster, T. K. (See McLaughlin, James, assignor.)						
Webster, Theodore L., <i>et al.</i> (See Aldrich, Roscoe H., assignor.)						
Webster, Thomas E. (See Bramble, Frank H., assignor.)						
Webster, Thomas E. (See Smith, Frederick M., assignor.)						
Webster, Warren, <i>et al.</i> (See Aldrich, Roscoe H., assignor.)						
Webster, William R., Philadelphia, Pa. Forging-machine	557,922	Apr. 7	704	168 169	75	133
Weder, Paul J., assignor to Sharp & Smith, Chicago, Ill. Castrating instrument	560,383	May 19	1911	435	75	1103
Weed, Alfred, Anderson, Ind. Round file	570,579	Nov. 3	272	67	77	688
Weed, Edward B., assignor to A. I. Root Company, Medina, Ohio. Method of and apparatus for making sheeted wax and artificial honeycomb foundations	572,588	Dec. 8	881	213	77	1465
Weed, George A., New York, N. Y. Car-fender	569,848	Oct. 20	1990	475	77	403
Weed, Gustavus R., Orange, assignor to H. Bergfels, Newark, N. J. Stopper attachment for ink-bottles	552,859	Jan. 7	670	163	74	127
Weed, Harry D., assignor to F. W. Gridley, Syracuse, N. Y. Changeable-speed mechanism	563,819	Aug. 11	1585	3-7	76	930
Weed, Thaddeus S., Chester, Pa. Tie guard or plate	566,828	Sept. 1	155	36	76	1312
Weekes, Thomas C., Hempstead, N. Y. Horseshoe	562,505	June 23	2509	698	75	1902
Weekes, Andrew C., Alhambra, Cal. Device for opening knives	568,998	Oct. 6	494	111	77	94
Weekes, Charles E., <i>et al.</i> (See Van Arsdale, Frank D., assignor.)						
Weekes, Frank W., Denver, Colo. Train-order-blank pad	574,349	Dec. 29	4112	977	77	2118
Weekes, Frederick G., Lyons, Iowa. Railway time and station indicator	563,340	July 7	190	42	76	39
Weeks, Horace, Boston, Mass., assignor, by mesne assignments, to Suffolk Nailing Machine Company, Portland, Me. Nail making and driving machine	566,358	Aug. 25	2544	621 622 623 624	76	1148
Weeks, Horace, Boston, and J. E. Tuttle, Chelsea, Mass., assignors, by mesne assignments, to Suffolk Nailing Machine Company, Portland, Me. Sole-nailing machine	566,359	Aug. 25	2547	622 623 624	76	1149
Weeks, Horace, Boston, Mass., assignor, by mesne assignments, to Suffolk Nailing Machine Company, Portland, Me. Sole-nail	572,937	Dec. 8	1489	357	77	1583
Weeks, John, New York, N. Y., assignor to J. F. Dettmar, executor of Richard Dudgeon, deceased. Dock and vessel leveling device	568,421	Sept. 29	2957	709	76	1889
Weeks, John, New York, N. Y., assignor to J. F. Dettmar, executor of R. Dudgeon, deceased. Hydraulic jack	571,547	Nov. 17	1987	472 473	77	1049
Weeks, N., <i>et al.</i> (See Griffin, Thomas J., assignor.)						
Weeks, Parrish C., assignor of forty-nine one-hundredths to H. R. Houston and C. W. Bozarth, Lamar, Mo. Car-coupling	554,755	Feb. 18	1681	396	74	851
Weeks, Samuel V., Marion, N. C. Cotton planter and cultivator	554,013	Feb. 4	384	84, 85	74	576
Wegefarrth, Louis C., New York, N. Y. Hair-curler	557,038	Mar. 24	2778	660	74	1699
Wegener, Carl, Berlin, Germany. Coal-dust firing apparatus	554,327	Feb. 11	916	218 219 220	74	695
Wegner, Richard, Neu Britz, Germany. Suction-tank for raising liquids, &c.	553,182	Jan. 14	1267	306	74	252
Wehmeyer, Charles F. (See Schulte and Wehmeyer.)						
Wehmhoff, John H. (See McCarthy and Wehmhoff.)						
Wehner, Herman, Detroit, Mich. Brush	553,374	Jan. 21	1611	384	74	329
Wehner, Herman, Detroit, Mich. Brush-machine	557,923	Apr. 7	705	169	75	133
Weiberg, Henry A., <i>et al.</i> (See Grigware, Edward N., assignor.)						
Weible, Jacob H. (See Klahr, Howard, assignor.)						
Weiblen, William F., <i>et al.</i> (See Allen, Fred E., assignor.)						
Weichelt, Charles, Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company, of Pennsylvania. Cloth-clamp for textile machinery	573,065	Dec. 15	1720	413	77	1645
Weider, John A., assignor to S. W. Hagaman, Rochester, N. Y. Horse-collar	570,887	Nov. 3	859	200	77	801
Weidner, Theophilus P., Glenola, Pa. Car-coupling	570,652	Nov. 3	433	103	77	718
Weidlich, Emil, London, England. Handle and stick for umbrellas, &c.	558,884	Apr. 21	2401	555	75	485
Weidlich, Otto E., Cincinnati, Ohio. Fountain-pen	558,522	Mar. 17	1911	445	74	1519
Weidman, Charles O., Medina, Ohio. Tabular-tower construction	566,552	Aug. 25	2908	709	76	1217
Weidner, William, New Orleans, La. Can-opener	564,489	July 21	2186	512	76	434
Weidner, William, New Orleans, La. Parallel-ruler	564,490	July 21	2187	512	76	434
Weierbach, Albert W., <i>et al.</i> (See Beamisderfer, Joseph A., assignor.)						
Weigand, Alfred, Milwaukee, Wis. Shoe-stay	570,076	Oct. 27	2390	566	77	491
Weigand, Andrew, Malvern, Ohio. Removable calk for horseshoes	563,341	July 7	192	43	76	39

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Weigand, George, Minneapolis, Minn. Match-safe	570,859	Nov. 3	800	183	77	787
Weight, Franklin A., Walker, Pa. Wire-and-picket fence	552,558	Jan. 7	98	26	74	20
Weightman, William H., Brooklyn, N. Y. Boiler and steam-generator	562,993	June 30	3411	820	75	2096
Weigle, Charles W., Mason City, Iowa. Hame-tug clip	563,631	July 7	665	156	76	125
Weigle, Edward B., assignor of one-half to J. J. Kinney, St. Louis, Mo. Seal-lock	560,954	May 26	2966	681	75	1315
Weigle, Gilbert H. (See White, Samuel A., assignor.)						
Weil, Abraham. (See Krebs and Weil.)						
Weil, August J. (See Baker, Jackson R., assignor.)						
Weil, Samuel S., et al. (See Beazan, John H., assignor.)						
Weiland, George W., and M. Thomas, Pricburg, Pa. Convertible baby-walker	559,424	May 5	141	30	75	708
Weile, Jens, Pisa, Italy. Tooth-cleaning instrument	555,139	Feb. 25	2387	566	74	999
Weiler, Nick, Milwaukee, Wis. Steering device for traction-engines	559,643	May 5	500	115	75	777
Weimar, Julius, assignor to Faber & Schleicher, Offenbach-on-the-Main, Germany. Print- ing-press	559,423	May 5	138	29, 30	75	707
Weinberg, Arthur, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Black azo dye	560,448	May 19	2029	.....	75	1124
Weinberg, Arthur, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Black dye	560,449	May 19	2030	.....	75	1124
Weinberger, Louis, New Orleans, La. Ventilator-car	558,330	Apr. 14	1442	355	75	290
Weingarten, David, et al. (See Weingarten and Grotta, assignors.)						
Weingarten, Levi, New York, N. Y., and D. Grotta, Newark, N. J., assignors to L., D., and O. Weingarten, New York, N. Y. Corset	557,460	Mar. 31	3522	842	74	1860
Weingarten, Oscar, et al. (See Weingarten and Grotta, assignors.)						
Weinhold, Ernst A., Louvain, Belgium. Apparatus for washing and cleansing grain	562,053	June 16	1758	425	75	1747
Weinman, Christian J., and E. E. Euchenhofer, Dayton, Ohio. Gas-engine	555,717	Mar. 3	392	91, 92	74	1200
Weinman, Christian J., and E. E. Euchenhofer, Dayton, Ohio. Gas-engine	555,791	Mar. 3	500	122	74	1221
Weinman, Christian J., and E. E. Euchenhofer, assignors to Dayton Gas Engine and Manu- facturing Company, Dayton, Ohio. Gas-engine starter	569,365	Oct. 13	1120	267	77	230
Weinman, Joseph C., assignor of one-half to L. & H. Goeppinger, Boone, Iowa. Horse- collar fastener	564,671	July 28	2503	592	76	510
Weinstein, Charles. (See Kritcher and Weinstein.)						
Weinstock, Davis, New York, N. Y. Baby-carriage	567,669	Sept. 15	1633	394	76	1613
Weintraub, Jacob, New York, N. Y. Lamp	553,745	Jan. 28	2250	533	74	464
Weiper, Henry B., Durand, Wis. Horse-detacher	553,440	Jan. 21	1711	408	74	348
Weiper, Henry B., Durand, Wis. Centrifugal tester	566,257	Aug. 18	2351	576	76	1097
Weir, David, Hartford, Conn. Drill-chuck	558,242	Apr. 14	1298	317	75	262
Weir, F. C. (See Fehrenbatch, John, assignor.)						
Weir, Fred C. (See Goldsmith, Nathaniel O., assignor.)						
Weir, Fred C. (See Harden, Edward W., assignor.)						
Weir Frog Company. (See Partington, Charles, assignor.)						
Weir, John H., New York, N. Y. Plumb-support	572,390	Dec. 1	555	131	77	1383
Weir, Max W., Newark, N. J. Gas-engine	569,694	Oct. 20	1715	407	77	354
Weir Plow Company. (See Brunnemer, William T. M., assignor.)						
Weir Plow Company. (See White, Charles E., assignor.)						
Weir Store Company. (See Wilbur, George E., assignor.)						
Weis, J. P. Carl. (See Cook, Walter E., assignor.)						
Weisbecker, Charles. (See Breakpear, Spannaus, and Weisbecker.)						
Weise, Carl H., Pössneck, Germany. Hardening positive masses of accumulators	559,155	Apr. 28	2922	.....	75	600
Weise, Carl H., Pössneck, Germany. Manufacturing plates for secondary batteries	570,619	Nov. 3	342	85	77	702
Weisel, Jacob E., Crestline, Ohio. Frame for drying curtains	560,073	May 12	1340	300	75	948
Weisel, Morris, New York, N. Y. Car-fender	571,938	Nov. 24	2669	636	77	1202
Weishan, Louis, assignor of two-thirds to B. I. and F. N. Sauer, Milwaukee, Wis. Neck- tie-retaining device	561,549	June 2	871	210	75	1535
Weiss, Andrew. (See Sargent and Weiss.)						
Weiss, Andrew, assignor to American Washboard Company, Cleveland, Ohio. Washboard	556,569	Mar. 17	1977	{ 461 462 }	74	1532
Weiss, Andrew, assignor to American Washboard Company, Cleveland, Ohio. Washboard	556,570	Mar. 17	1980	462	74	1532
Weiss, Arkless D. (See Auble and Weiss.)						
Weiss, Carl W., assignor to himself and A. Mietz, New York, N. Y. Valve	556,037	Mar. 10	973	233	74	1330
Weiss, Franz J., Basle, Switzerland. Valve	559,316	Apr. 28	3208	775	75	653
Weiss, Franz J., Basle, Switzerland. Governor	560,450	May 19	2032	464	75	1125
Weiss, Frederick W., Milwaukee, Wis. Disinfecting apparatus	563,825	July 14	1004	238	76	204
Weiss, George L., Cleveland, Ohio. Draft-rigging for cars	569,695	Oct. 20	1716	407	77	355
Weiss, George L., Cleveland, Ohio. Draft-rigging for cars	569,696	Oct. 20	1717	408	77	355
Weiss, George W., Brooklyn, N. Y. Pneumatic tire	569,074	Oct. 6	614	139	77	118
Weiss, George W., Brooklyn, assignor of three-fourths to J. Stewart, New York, N. Y. Sewing-machine	552,559	Jan. 7	99	27	74	20
Weiss, George W., Brooklyn, assignor to J. Stewart, New York, N. Y. Zigzag-stitch-sew- ing machine	552,941	Jan. 14	852	206	74	173
Weiss, George W., Brooklyn, assignor to J. Stewart, New York, N. Y. Sewing-machine	552,942	Jan. 14	854	{ 206 207 }	74	174
Weiss, George W., Brooklyn, assignor to J. Stewart, New York, N. Y. Universal-feed at- tachment for sewing-machines	562,445	June 23	2424	{ 587 588 }	75	1886
Weiss, George W., Brooklyn, assignor to J. Stewart, New York, N. Y. Braid-feeding mechanism for sewing-machines	568,387	Sept. 29	2896	697	76	1879
Weiss, Martin. (See Paolucci, Henry E., assignor.)						
Weiss, Morris, Brooklyn, N. Y., assignor, by mesne assignments, to Union Special Sewing Machine Company, Chicago, Ill. Pull-off device for sewing-machines	559,644	May 5	503	{ 115 436 }	75	778
Weiss, Rudolph, Nottingham, England. Embroidering-machine	573,119	Dec. 15	1812	{ 437 438 }	77	1663
Weiss, Samuel. (See Sherk, Rutter, and Groh, assignors.)						
Weiss, William F., et al. (See Müller-Jacobs, Armand, assignor.)						
Weissenborn, Oscar A., Jersey City, N. J. Face-steaming apparatus	571,567	Nov. 17	2048	488	77	1060
Weissenhanner, Alfred L., New York, N. Y. Hermetically-sealed vessel	566,952	Sept. 1	371	86	76	1353
Weissman, Jesse M., New York, N. Y. Combined collar, bow, and bosom-front	559,425	May 5	143	30	75	708
Wetzell, Isaac N., Rochester, N. Y. Hoop for pie-tins	567,426	Sept. 8	1230	295	76	1521
Weitzel, John C., Jersey City, N. J. Bottle-stopper	562,327	June 16	2217	540	75	1832
Weland, Andrew J., Omaha, Nebr. Box	557,461	Mar. 31	3521	842	74	1660
Welbourn, Josiah M., assignor of one-half to W. F. Blayney, Morrow county, Ohio. Grain weigher and sacker	561,742	June 9	1222	290	75	1627
Welch, Allie R., assignor of one-half to F. P. Glazier, Chelsea, Mich. Oil-stove	553,441	Jan. 21	1712	408	74	348
Welch, Allie R., assignor of one-half to F. P. Glazier, Chelsea, Mich. Wick raising or low- ering device	554,404	Feb. 11	1071	250	74	718

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Welch, Allie R., assignor of one-half to F. P. Glazier, Chelsea, Mich. Oil-burner	560,875	May 26	2833	{ 648 649 }	75	1290
Welch, Charles K., Coventry, England, assignor to Pneumatic Tyre Company, Limited, Dublin, Ireland. Tire for vehicles	562,869	June 30	3180	770	75	2047
Welch, Charles K., Coventry, England, assignor to Pneumatic Tyre and Booth's Cycle Agency, Limited, Dublin, Ireland. Pneumatic tire for vehicle-wheels	564,808	July 28	2746	652	76	552
Welch, E. Baker, <i>et al.</i> (See Robinson, Thomas C., assignor.)	556,601	Mar. 17	2031	476	74	1541
Welch, Everett C., Friedens, Pa. Rotary weeder	555,925	Mar. 10	872	206	74	1313
Welch, Joseph W., Potter, Nebr. Pump	555,593	June 23	2822	685	75	1961
Welch, Justin H., Topsfield, Mass. Square	562,683	June 23	2822	685	75	1961
Welch, Michael L., Cordele, assignor of one-half to W. H. Barnett, Atlanta, Ga. Car-coupling	571,030	Nov. 10	1094	255	77	870
Welch, Orrin T., Topeka, Kans. Capsizing burglar-alarm	558,886	Apr. 21	2404	586	75	486
Welch, Peter A., Worcester, Mass. Ash-sifter	555,593	Mar. 3	182	43	74	1163
Welch, Reuel H., St. Louis, Mo. Paper-ruling machine	564,672	July 28	2504	{ 592 593 }	76	511
Welch, Rolla J. (See Hardesty, Hale, and Welch.)						
Welch, Rosia W., assignor of five-sixths to M. A. McCormick, M. Mullen, and J. S. Taylor, Baltimore, Md. Roller-mill	572,589	Dec. 8	883	213	77	1465
Welch, Samuel E., assignor to Western Wheeled Scraper Company, Aurora, Ill. Locking device for extensible axles	573,836	Dec. 22	3142	748	77	1927
Welch, William H., Andover, Mass. Water-bandage	557,244	Mar. 31	3160	757	74	1790
Welch, William P., Grand Forks, N. D. Shoe-holder	573,498	Dec. 22	2537	601	77	1812
Welch, William S., Westfield, N. J. Luting or cement	563,826	July 14	1005	.....	76	204
Welcker, Armand J. (See Allen, James M., assignor.)						
Weld, John N. (See Springer, Narcissa S., assignor.)						
Weldon, Henry J., Brooklyn, N. Y. Pneumatic tire	560,246	May 19	1663	379	75	1060
Weldon, James F. (See Beech, George, assignor.)						
Weldon, James J., Pittsburg, Pa. Store-service apparatus	567,701	Sept. 15	1686	406	76	1623
Weldon, Leonard, Amsterdam, N. Y. Dyeing apparatus	566,258	Aug. 18	2352	{ 576 577 }	76	1097
Weldon, Oliver L., assignor of one-half to H. C. Moses, Wolcott, N. Y. Device for cleaning cisterns or wells	567,181	Sept. 8	790	186	76	1443
Weldon, Richard W. (See Jilbert, Harry J., assignor.)						
Welin, Axel, London, England. Breech mechanism for guns	552,560	Jan. 7	100	27, 28	74	20
Welin, Axel, London, England. Screw-threaded breech-block	552,561	Jan. 7	101	29	74	21
Welin, Axel, London, England. Rapid-firing gun	562,994	June 30	3413	{ 820 821 }	75	2096
Welke, Hermann F., Hagen, Germany. Button-fastener	572,846	Dec. 8	1332	320	77	1552
Weller, Alfred, Chicago, Ill. Temporary binder or file	562,054	June 16	1760	426	75	1747
Weller, Carl F. (See Behrend and Weller.)						
Weller, Chester A. (See Moore and Weller.)						
Weller, Cyrus S., Waterbury, Conn. Paper-hanger's size	567,556	Sept. 8	1433	.....	76	1558
Weller, Franklin A., Boston, Mass. Electrically-controlled clutch	559,240	Apr. 28	3090	746	75	632
Welles, Arthur T., assignor to Western Electric Company, Chicago, Ill. Cable-terminal attachment	563,342	July 7	193	43	76	39
Welles, George A., Jr., New York, N. Y., assignor to C. & C. Electric Company, of New Jersey. Dynamo-electric machine and electric motor	555,544	Mar. 3	104	23	74	1149
Welles, George A., Jr., New York, N. Y., assignor to C. & C. Electric Company, of New Jersey. Armature for dynamos and motors	555,628	Mar. 3	249	58	74	1175
Welshöfer, Carl, Heidingsfeld, Germany. Spittoon	561,247	June 2	288	72, 73	75	1424
Welling, Herman L., Petoskey, Mich. Garment-display frame	566,259	Aug. 18	2355	577	76	1097
Welling, John C., Crisp, Mich. Grain-cleaner	564,491	July 21	2188	513	76	434
Wellman, Charles H. (See Wellman, Samuel T. and C. H.)						
Wellman, Harlan P., Ashland, Ky. Means for reversing trolley-pole supports	558,868	Apr. 21	2370	578	75	478
Wellman, Harlan P., Ashland, Ky. Trolley for electric-railway cars	558,869	Apr. 21	2372	{ 578 579 }	75	479
Wellman, Harlan P., Ashland, Ky. Electric-railway car	558,870	Apr. 21	2376	579	75	480
Wellman, Harlan P., assignor of one-half to J. Trimble, Catlettsburg, Ky. Rail bond or connection	562,055	June 16	1761	426	75	1747
Wellman, Harold K., Duluth, Minn. Antifriction-bearing	556,450	Mar. 17	1772	411	74	1494
Wellman, Harold E., North Tonawanda, N. Y. Elevator mechanism	568,506	Sept. 29	3100	747	76	1915
Wellman, Samuel T., Upland, Pa. Regenerative furnace	557,924	Apr. 7	706	170	75	133
Wellman, Samuel T., Upland, Pa., and C. H. Wellman, South Chicago, Ill. Furnace-charging apparatus	569,075	Oct. 6	615	140	77	118
Wells, Charles G., assignor to W. Wells, Hartford, and W. E. Simonds, Canton, Conn. Sand-box	568,122	Sept. 22	2451	588	76	1779
Wells, Chester H., Meshoppen, Pa. Ring attachment	569,900	Oct. 20	2073	493	77	418
Wells, Frank E. (See Wells, Willet C. and F. E.)						
Wells, George W., assignor to American Optical Company, Southbridge, Mass. Oculist's testing-frame	555,195	Feb. 25	2482	586	74	1017
Wells, Hamilton E., Portsmouth, Ohio. Valve	563,946	July 14	1245	291	76	246
Wells, Henry B., <i>et al.</i> (See Wiswell, Jacob C., assignor.)						
Wells, Jacob M., and O. E. Wiltzie, Marion, Ind. Automatic lathe	559,645	May 5	504	{ 115 116 }	75	778
Wells, James B., Lowville, N. Y. Artificial tooth-crown	558,133	Apr. 14	1115	272	75	228
Wells, James L., Leadville, Colo. Roasting-furnace	569,901	Oct. 20	2074	494	77	418
Wells, James M., Peoria, Ill. Filter	563,523	July 7	488	115	76	93
Wells, John C. (See Bevin and Wells.)						
Wells, Mahlon, Haughville, Ind. Car-coupling	554,610	Feb. 11	1434	336	74	788
Wells, Philip F., Milford, Mich. Cultivator	555,059	Feb. 18	2240	535	74	953
Wells, Robert G., Decatur, Ill. Bicycle-sppport	567,015	Sept. 1	499	{ 117 118 }	76	1376
Wells, Wilfred, Philadelphia, Pa. Marking stamp or die	552,800	Jan. 7	558	135	74	106
Wells, Willet C. and F. E., Fostoria, Ohio. Machine for making nipples	569,902	Oct. 20	2076	494	77	419
Wells, William, <i>et al.</i> (See Wells, Charles G., assignor.)						
Wellsted, William H., Brampton, Mich. Antirefilling bottle	568,388	Sept. 29	2898	697	76	1879
Welsbach, Carl A. von, Vienna, Austria-Hungary, assignor to Welsbach Light Company, of New Jersey. Incandescent lighting substance	563,524	July 7	490	.....	76	93
Welsbach Light Company. (See Hallas, James G., assignor.)						
Welsbach Light Company. (See McKnight, John W., assignor.)						
Welsbach Light Company. (See Welsbach, Carl A. von, assignor.)						
Welsh, Andrew J., Minneapolis, Kans. Cut-off for water-pipes	561,148	June 2	131	35	75	1391

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Welsh, Artemus, Lawrence, Kans. Spike or bolt puller	571,815	Nov. 24	2456	584	77	1157
Welsh, Artemus, Lawrence, Kans. Spike-extractor	571,816	Nov. 24	2457	584	77	1158
Welsh, Artemus, Lawrence, Kans. Spike-extractor	573,943	Dec. 29	3332	796	77	1977
Welsh, Charles, assignor of one-half to M. W. Welsh, Ilchester, Md. Car-fender	554,158	Feb. 4	660	149	74	626
Welsh, Hamilton E., assignor of one-half to W. H. Long, Columbia, Pa. Car-axle box	565,870	Aug. 11	1689	413	76	952
Welsh, Milton W. (See Welsh, Charles, assignor.)						
Welsh, Thomas W. (See Westinghouse and Welsh.)						
Welsh, Thomas W., Wilmerding, Pa., assignor to Ashcroft Manufacturing Company, Bridgeport, Conn. Pressure-gage	552,653	Jan. 7	268	72	74	52
Welsh, William C., Allegheny, assignor of one-half to I. D. Doverspike, Eddyville, Pa. Smoke-custumer	558,885	Apr. 21	2403	{ 585 586 }	{ 75 75 }	485
Welter, Gustav A., assignor to Kuchler & Buß, Crefeld, Germany. Amidalkylsalicylic acid	563,993	July 14	1328		76	262
Welton, Edwin D., assignor to Scovill Manufacturing Company, Waterbury, Conn. Button-setting machine	571,207	Nov. 10	1402	328	77	927
Welton, Frank R. (See McKenney and Welton.)						
Welty, Emile, Utica, N. Y. Stop-motion for roving drawing and concentrating machines	563,343	July 7	194	43	76	40
Wemmell, Kate L., New York, N. Y. Blackboard	567,758	Sept. 15	1784	428	76	1642
Wemmer, William N., Trenton, assignor of one-third to S. H. Vivian, Lawrenceville, N. J. Hot-water heating apparatus for buildings	553,199	Jan. 14	1298	314	74	258
Wenche, Lawrence, Baltimore, Md. Machine for abrading and fitting work	557,462	Mar. 31	3524	843	74	1860
Wenche, Jefferson C. (See Gardner, Levi S., assignor.)						
Wende, Frank J., Chicago, Ill. Manifold-copying book	556,484	Mar. 17	1824	424	74	1504
Wende, Frank J., assignor to A. G. Beaunisme, trustee, Chicago, Ill. Memorandum-book	563,525	July 7	492	115	76	94
Wend, John B., Milwaukee, Wis. Stump-cutting machine	559,241	Apr. 28	3092	746	75	632
Wendling, George X. (See Johns, Zacharia D., assignor.)						
Wendt, Fred, Marshfield, assignor to M. and J. Nick, Tomahawk, Wis. Adding-machine	563,435	July 7	340	77	76	67
Wendt, Fredrick H., assignor to Brown Folding Machine Company, Erie, Pa. Packer for folding-machines	570,580	Nov. 3	272	67, 68	77	689
Wendt, Fredrick H., assignor to Brown Folding Machine Company, Erie, Pa. Folding-machine	570,581	Nov. 3	274	68	77	689
Wendt, Henry J., Excello, Mo. Clothes-line	568,647	Sept. 29	3388	811	76	1968
Wenger, Adolphe, Paris, France. Pneumatic brake apparatus for railway-trains	555,196	Feb. 25	2483	587	74	1017
Wenger, Jacob E., Burton City, Ohio. Bathing device	553,046	Jan. 14	1012	247	74	204
Wenger, Julius D. C., assignor to L. I. Cook and C. S. Carter, Ansonia, Conn. Finger-nail clipper	569,903	Oct. 20	2079	495	77	419
Wenger, Milton, New Holland, Pa. Wrench	572,185	Dec. 1	156	38	77	1308
Wenger, Milton, New Holland, Pa. Wrench	572,186	Dec. 1	158	38	77	1308
Wenmakers, Jerome, Brussels, Belgium. Erecting buildings	561,637	June 9	1029	247	75	1590
Wennen, John, and C. Hart, assignors of one-third to J. H. Johns, Frisco, Utah. Ore-concentrator	558,915	Apr. 21	2462	599	75	496
Wently, Samuel A., et al. (See Munden, Joseph, assignor.)						
Wentworth, Fred W. (See Gartner, Alfred, assignor.)						
Wentz, Louis F., et al. (See Rively, John D., assignor.)						
Wenzel, Rudolph G., assignor to L. A. Robertson and W. F. Mills, San Francisco, Cal. Advertising-clock	558,625	Apr. 21	1954	474	75	402
Wenzelmann, Gustave, Missal, Ill. Elevator and dump	569,697	Oct. 20	1719	{ 408 409 410 }	{ 77 77 77 }	355
Werle, John F. (See Black and Werle.)						
Wermann, Paul B., and J. H. C. F. Weber, Hamburg, Germany. Mustache-guard	555,140	Feb. 25	2388	567	74	999
Werner, Ernest E., Dallas, Tex. Current-controller or rheostat	574,231	Dec. 29	3924	934	77	2082
Werner, George W., assignor to E. T. Frain, Lancaster, Pa. Padlock	556,232	Mar. 10	1334	313	74	1395
Werner, Hermann, Cannstadt, Germany, and P. Pfeiderer, London, England, assignors to Cannstatter Misch and Knetmaschinen-Fabrik Werner & Pfeiderer, Cannstadt, Germany. Baking-oven	566,639	Aug. 25	3023	739	76	1240
Werner, John, Rochester, N. Y. Sirup-cooler	561,297	June 2	412	102	75	1449
Werner, John, Rochester, N. Y. Beating and mixing machine for confectioners' use	561,298	June 2	413	102	75	1450
Werner, Louis C., Broad Brook, Conn. Picker-motion for looms	552,562	Jan. 7	102	29	74	21
Werner, Louis C., Broad Brook, Conn. Relief-motion for looms	552,563	Jan. 7	103	29, 30	74	21
Werner, Louis C., Broad Brook, Conn. Bottle	564,673	July 28	2506	593	76	511
Werner, Paul F., Vailsburg, N. J., assignor to J. Duncan & Co., Boston, Mass. Overhead switch and hanger	571,607	Nov. 17	2083	500	77	1066
Werner, William, Brooklyn, N. Y. Runner for rocking-chairs	557,521	Mar. 31	3641	873	74	1882
Werneth, Francis J., Baltimore, Md. Bicycle-support	559,646	May 5	507	116	75	779
Wernicke Co. (See Wernicke, Otto H. L., assignor.)						
Wernicke Co. (See Wernicke and Burr, assignors.)						
Wernicke, Otto H. L., Minneapolis, Minn. Separable bookcase	564,401	July 21	2043	479	76	408
Wernicke, Otto H. L., assignor to Wernicke Co., Minneapolis, Minn. Sectional bookcase	557,737	Apr. 7	384	90	75	73
Wernicke, Otto H. L., and M. C. Burr, assignors to Wernicke Co., Minneapolis, Minn. Separable bookcase	557,736	Apr. 7	382	89	75	72
Wernitz, Frank E., et al. (See Ballenger, Benjamin, assignor.)						
Wernitz, Frank E., Meinert, assignor of four-fifths to D. and B. Ballenger, W. Allan, Golden City, and E. Glammier, Dade county, Mo. Adjustable landside-shoe for plows	574,293	Dec. 29	4022	955	77	2101
Wert, Albert F. (See Krause, Roswell F., assignor.)						
Wert, Mason O., Poplar, Ohio. Corn-harvester	570,832	Nov. 3	753	{ 171 172 }	{ 77 77 }	778
Wert, William W., Ithaca, Ohio. Gate	562,105	June 16	1856	450	75	1763
Weschoke, Emil, San Francisco, assignor of one-sixteenth to G. W. Van Alstine, Los Angeles, Cal. Antiseptic diaphragm for telephones	553,633	Jan. 28	2052	485	74	427
Westcott, Eugene M., Chicago, Ill. Gas-burner	555,141	Feb. 25	2389	567	74	999
Wesemann, Henry G., New York, N. Y. Railway car and track	558,540	Apr. 21	1814	441	75	377
Wesemann, Henry G., Brooklyn, N. Y. Car or truck	568,059	Sept. 22	2330	563	76	1755
Wesemann, Henry G., assignor of one-fourth to O. Gilcher, New York, N. Y. Car-coupling	558,579	Apr. 21	1860	456	75	388
Weser, Calvin L., New York, N. Y. Musical instrument	560,665	May 26	2452	{ 562 563 }	{ 75 75 }	1217
Weser, George W., New York, N. Y. Pedal-lock for pianofortes	561,149	June 2	132	35	75	1392
Weser, John A., New York, N. Y. Pianoforte	560,247	May 19	1664	{ 379 380 }	{ 75 75 }	1060
Weser, John A., New York, N. Y. Music-rack for musical-instrument cases	560,248	May 19	1668	380	75	1061

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Weser, John A., New York, N. Y. Pianoforte.....	560,249	May 19	1671	{ 380 3-1 382 }	75	1061
Weser, John A., New York, N. Y. Musical instrument.....	570,582	Nov. 3	275	68	77	689
Wesle, Henry. (See Wesle, Herman and H.).....						
Wesle, Herman and H., Medford, Wis. Sleigh-knee.....	572,847	Dec. 8	1333	321	77	1552
Wesselmann, Bruno and T., Berlin, Germany. Drilling or boring tool.....	571,253	Nov. 10	1482	348	77	942
Wesselmann, Theodor. (See Wesselmann, Bruno and T.).....						
Wesson, Daniel B. (See Foster, Charles E., assignor.).....						
Wesson, Daniel B. (See Rice, John W., assignor.).....						
Wesson, Daniel B. and J. H., Springfield, Mass. Revolver.....	565,245	Aug. 4	577	135	76	721
Wesson, Daniel B. and J. H., Springfield, Mass. Safety device for revolvers.....	573,736	Dec. 22	2974	703	77	1896
Wesson, Joseph H. (See Wesson, Daniel B. and J. H.).....						
Wesson, Joseph H., Springfield, Mass. Machine for forming pearl buttons.....	560,250	May 19	1674	382	75	1062
Wesson, Joseph H., Springfield, Mass. Revolver.....	565,246	Aug. 4	579	135	76	721
West, Asa H., Lynchburg, Va. Fire-alarm.....	573,944	Dec. 29	3334	796	77	1977
West Boylston Manufacturing Company. (See Fittz, William B., assignor.).....						
West, Crawford. (See Gardner, Joseph N., assignor.).....						
West, Crofford, et al. (See Hardesty, Hale, and Welch, assignors.).....						
West, Derrick S., and D. Johnson, Boston, Mass. Saw-clamp.....	573,737	Dec. 22	2975	704	77	1896
West, Elliott P., Orlando, Fla. Level.....	559,090	Apr. 28	2768	670	75	572
West, Ephraim K., assignor to J. F. Pease Furnace Company, Syracuse, N. Y. Grate.....	554,471	Feb. 11	1202	280	74	743
West, George H., Manchester, Ohio. Fireplace-heater.....	558,134	Apr. 14	1116	272	75	228
West Haven Manufacturing Co. (See Bradley, Frank S., assignor.).....						
West, Hubert R., et al. (See Mitchell, James C., assignor.).....						
West, John, assignor to Indestructible Type Company, Chicago, Ill. Type-casting pump.....	554,405	Feb. 11	1072	251	74	719
West, John, assignor to Indestructible Type Company, Chicago, Ill. Type-casting pump.....	554,406	Feb. 11	1073	251	74	719
West, John C., Atlanta, Ga. Electric block-signal and train-lighting system.....	560,451	May 19	2040	465	75	1125
West, John L., Norristown, Pa. Apparatus for distributing air.....	571,500	Nov. 17	1904	{ 451 455 }	77	1035
West, John L., Norristown, Pa. Washing-machine.....	571,501	Nov. 17	1906	455	77	1035
West, Jonathan B., Rochester, N. Y. Tire-setting machine.....	555,060	Feb. 18	2241	536	74	953
West, Jonathan B., Rochester, N. Y. Car-wheel.....	570,525	Nov. 3	159	38	77	667
West, L. Judson, et al. (See Hoyt, Frederick J., assignor.).....						
West, Richard V., and H. Holgate, Philadelphia, Pa. Air-pump.....	566,953	Sept. 1	372	87	76	1353
West, Robert S., Cleveland, Ohio. Graduated disinfectant.....	556,948	Mar. 24	2608	613	74	1666
West, Robert S., Cleveland, Ohio. Advertising toy.....	571,548	Nov. 17	1989	473	77	1050
West, Samuel A., assignor of one-half to W. H. Hart, San Francisco, Cal. Amalgamator.....	553,634	Jan. 23	2053	486	74	428
West, Stephen P. (See Miller, James K. P., assignor.).....						
West, Sylvester M. (See Atkinson and West.).....						
West, Thomas, assignor to himself and J. S. Rogers, New York, N. Y. Cigarette-box.....	560,453	May 19	2046	466	75	1126
West, Thomas M., et al. (See Mitchell, James C., assignor.).....						
West, William A., assignor of one-half to A. L. Martin, Boone, Iowa. Device for feeding anti-incrustation compounds to boilers.....	569,440	Oct. 13	1241	291	77	251
West, William H. H., Jerseyville, Ill. Crimping-tool for wire fences.....	566,043	Aug. 18	2003	486	76	1031
West, William H. H., Jerseyville, Ill. Farm-gate.....	567,670	Sept. 15	1634	394	76	1613
West, William H. H., assignor of two-thirds to H. S. Daniels and J. W. Enos, Jerseyville, Ill. Fence-wire-crimping device.....	568,931	Oct. 6	360	43	77	69
Westaway, Walter C., et al. (See Westaway, Walter J., assignor.).....						
Westaway, Walter J., assignor to W. C. Westaway and E. H. Sleight, Moline, Ill. Striking-bag support.....	554,756	Feb. 18	1683	397	74	852
Westbrook, James G., Ogdensburg, N. Y. Automatic sprinkler system.....	556,947	Mar. 24	2606	{ 612 613 }	74	1665
Westburg, Albert J., assignor of one-half to W. T. Caldwell, Urbana, Ill. Steam-boiler or water-heater.....	555,030	Feb. 18	2173	518	74	942
Westdarp, Henry O., Saugus, Mass. Thermal regulator for incubators.....	568,123	Sept. 22	2452	5-9	76	1779
Westenfeld, E. F. Herman, Toledo, Ohio. Ruling-machine for slates.....	573,843	Dec. 22	3149	751	77	1929
Westerbeck, Frederick, St. Louis, Mo. Crimping-tool.....	554,554	Feb. 11	1326	311	74	767
Westerbeck, Frederick, St. Louis, Mo. Can.....	564,492	July 21	2189	513	76	434
Western Electric Company. (See Bell, Oro A., assignor.).....						
Western Electric Company. (See Bosley, Winfield S., assignor.).....						
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Western Electric Company. (See Patterson, William R., assignor.).....						
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Western Electric Company. (See Scribner and Warner, assignors.).....						
Western Electric Company. (See Segerdahl, Rudolph, assignor.).....						
Western Electric Company. (See Thayer, Harry B., assignor.).....						
Western Electric Company. (See Tucker, Albert L., assignor.).....						
Western Electric Company. (See Tucker and Loveridge, assignors.).....						
Western Electric Company. (See Wait, Henry H., assignor.).....						
Western Electric Company. (See Warner, Ernest P., assignor.).....						
Western Electric Company. (See Welles, Arthur T., assignor.).....						
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Western Manufacturing Company. (See Smith, Orbin F., assignor.).....						
Western New York Preserving and Manufacturing Company. (See Hopkins, Kirk, assignor.).....						
Western Railway Signal Company. (See Shoecraft, Judson, assignor.).....						
Western Union Telegraph Company. (See Freir, Samuel P., assignor.).....						
Western Wheeled Scraper Company. (See Welch, Samuel F., assignor.).....						
Westfall, Oscar J., Fairmount, N. Y. Horse-collar.....	555,545	Mar. 3	104	23	74	1150

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Westfield Plate Company. (See Klein, William, assignor.)						
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Westinghouse Air Brake Company. (See Bayley and Clark, assignors.)						
Westinghouse Air Brake Company. (See Cloud, John W., assignor.)						
Westinghouse Air Brake Company. (See Custer, John S., assignor.)						
Westinghouse Air Brake Company. (See Guillemet, François L., assignor.)						
Westinghouse Air Brake Company. (See Hogan, Thomas J., assignor.)						
Westinghouse Air Brake Company. (See Noyes, Henry F., assignor.)						
Westinghouse Air Brake Company. (See Park, Harvey S., assignor.)						
Westinghouse Air Brake Company. (See Parke, Robert A., assignor.)						
Westinghouse Air Brake Company. (See Reinhart, Charles, assignor.)						
Westinghouse Air Brake Company. (See Westinghouse, George, Jr., assignor.)						
Westinghouse Air Brake Company. (See Westinghouse, Henry H., assignor.)						
Westinghouse Air Brake Company. (See Westinghouse and Welsh, assignors.)						
Westinghouse Air Brake Company. (See Williams, George B., assignor.)						
Westinghouse, Church, Kerr & Company. (See Roney and Townsend, assignors.)						
Westinghouse, Church, Kerr & Company. (See Roney, William R., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Davis, Harry P., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Lamme, Benjamin G., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Schmid, Albert, assignor.)						
Westinghouse Electric and Manufacturing Company. (See Scott, Charles F., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Scott and Skinner, assignors.)						
Westinghouse Electric and Manufacturing Company. (See Shallenberger, Oliver B., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Skinner, Charles E., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Stillwell, Lewis B., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Storer, Norman W., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Wurts, Alexander J., assignor.)						
Westinghouse, George. (See Backstrom, Charles A., assignor.)						
Westinghouse, George, Pittsburg, Pa., assignor to Electro-Magnetic Traction Company, Washington, D. C. Electric-railway construction.	573,066	Dec. 15	1721	413	77	1645
Westinghouse, George, Jr. (See Moore, Frank, assignor.)						
Westinghouse, George, Jr., Pittsburg, Pa. Underground conductor for electric railways.	556,602	Mar. 17	2032	476	74	1541
Westinghouse, George, Jr., Pittsburg, Pa. Assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Engineer's brake-valve.	557,463	Mar. 31	3527	{ 843 844 }	{ 74 74 }	{ 1861 1861 }
Westinghouse, George, Jr., Pittsburg, Pa., assignor to Electro-Magnetic Traction Company, Washington, D. C. Electric-railway system.	560,452	May 19	2044	466	75	1126
Westinghouse, George, Jr., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure automatic brake.	573,190	Dec. 15	1943	{ 467 468 }	{ 77 77 }	{ 1686 1686 }
Westinghouse, Henry H., Pittsburg, Pa. Means for balancing inertia of oscillating cylinders.	557,294	Mar. 31	3240	777	74	1805
Westinghouse, Henry H., Pittsburg, Pa. Assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Air-brake.	557,464	Mar. 31	3531	844	74	1862
Westinghouse, Henry H., Edgewood, and T. W. Welsh, assignors to Westinghouse Air Brake Company, Wilmerding, Pa. Pressure-regulating device.	561,949	June 9	1581	383	75	1694
Westlake, William, Brooklyn, N. Y. Cuspidor.	553,959	May 12	1115	249	75	905
Weston, Allan C., assignor to S. Alexander, Minneapolis, Minn. Toy musical wheel.	562,995	June 30	3416	821	75	2097
Weston, Edward D. (See Bird and Weston.)						
Weston, Eugene C., Gallatin, Mo. Counter-shaft and belt-tightener.	573,191	Dec. 15	1947	469	77	1687
Weston, Milton T., New York, N. Y., and G. H. Marston, Passaic, N. J. Splint-cutting machine.	574,050	Dec. 29	3542	{ 845 846 }	{ 77 77 }	{ 2015 2015 }
Weston, William S., Etherly, Ill. Hanger for electric lamps.	561,184	June 2	199	49,50	75	1405
Weston, William S., Chicago, Ill. Electric-lamp hanger.	561,185	June 2	205	50	75	1406
Westphal, Henry, Chicago, Ill. Bicycle-rack.	561,057	Aug. 4	159	37	76	647
Westphal, Henry, Chicago, Ill. Rack or stand for bicycles.	565,058	Aug. 4	162	38	76	647
Westphal, Henry, Chicago, Ill. Bicycle-rack.	573,171	Dec. 15	1903	458	77	1679
Westphal, Peter J., Holyoke, Mass. Journal-bearing.	573,738	Dec. 22	2976	704	77	1896
Westra, Peter and S., Kalamazoo, Mich. Door stop or holder.	572,622	Dec. 8	940	228	77	1477
Westra, Sikke. (See Westra, Peter and S.)						
Wetherbee, Emery G. (See Rand, Charles N., assignor.)						
Wethered, Edwin R., London, England. Carriage-window.	567,427	Sept. 8	1231	{ 295 296 }	{ 76 76 }	{ 1521 1521 }
Wethered, Edwin R., London, England. Friction pulley-block.	573,739	Dec. 22	2977	704	77	1896
Wetherell, F. D. (See Teetor and Kemp, assignors.)						
Wetherill & Co., Robert. (See Roeske, Henry, assignor.)						
Wetherill, John P., South Bethlehem, Pa. Method of and apparatus for magnetic separation.	555,792	Mar. 3	502	{ 122 123 }	{ 74 74 }	{ 1221 1221 }
Wetherill, John P., South Bethlehem, Pa. Separation of Franklinite ore and metallurgy thereof.	555,793	Mar. 3	507	123	74	1222
Wetherill, John P., South Bethlehem, Pa. Magnetic separator.	555,794	Mar. 3	511	{ 123 124 }	{ 74 74 }	{ 1223 1223 }
Wetherill, John P., South Bethlehem, Pa. Ore-drier.	560,876	May 26	2834	649	75	1291
Wethey, Arthur H., Butte, Mont. Calcining-furnace.	559,647	May 5	508	117	75	779
Wethey, Arthur H., Butte, Mont. Device for automatically opening or closing doors of furnaces.	565,311	Aug. 4	671	161	76	729
Wethey, Arthur H., Butte, Mont. Tripping door for calcining-furnaces.	565,312	Aug. 4	673	161	76	740
Wethey, Arthur H., Butte, Mont. Stirring device for calcining-furnaces.	565,313	Aug. 4	674	162	76	740
Wetmore, Earl P., and C. E. Roehl, St. Joseph, Mo. Electric heater.	570,077	Oct. 27	2391	567	77	491
Wetmore, Jerome W., Erie, Pa. Slice-bar for boiler or other level-grate furnaces.	563,947	July 14	1247	291	76	247
Wetter, Joseph. (See Sanders, Frank, assignor.)						
Wetteroth, William, assignor of one-half to C. W. Martin, St. Louis, Mo. Center support for awnings.	565,247	Aug. 4	580	135	76	722
Wetz, Charles F. and E. L., Dayton, Ohio. Attachment for preventing pumps from freezing.	558,541	Apr. 21	1815	441	75	377
Wetz, Edward L. (See Wetz, Charles F. and E. L.)						
Wetzel, Ludwig A., et al. (See Laubsch, Carl L., assignor.)						
Wetzel, Richard, Brooklyn, N. Y. Pipe.	568,008	Sept. 22	2221	536	76	1737
Weuste, Christian, Mulheim-on-the-Ruhr, Germany. Apparatus for closing or opening gas-pipes or connections.	555,795	Mar. 3	513	124	74	1223
Weyer, Joseph J. (See Stenz, Henry, assignor.)						
Wizen, Charles J., and J. E. Reynolds, Wilmington, Del. Necktie-fastener.	560,290	May 19	1743	397	75	1074
Whaley, Barnett B., Brooklyn, N. Y. Toy.	554,555	Feb. 11	1327	311	74	767

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Whaley, Royce & Co. (See Witmer, Benjamin, assignor.)						
Whalley, Enoch. (See Curran and Whalley.)						
Whalley, William, A. Clegg, T. W. Benson, W. Parratt, and J. Robinson, Halifax, England. Combing-machine	573,740	Dec. 22	2979	705	77	1897
What Cheer Drill and Miners Tool Company. (See Barker, Charles E., assignor.)						
Whatley, Alfred H. (See Lindgren and Whatley.)						
Whatley, Alfred H., Providence, R. I. Ball-bearing	556,117	Mar. 10	1124	266	74	1357
Whatley, John. (See Snow, Benjamin W., assignor.)						
Wayne, Robert C., Louisville, Ky. Lamp-bracket for velocipedes	571,101	Nov. 10	1237	288	77	896
Wheat, Henry A., Melbourne, Victoria. Cash and parcel carrier	560,955	May 26	2968	681	75	1316
Wheatfield, Jacob, et al. (See Barr, John, assignor.)						
Wheatley, Thomas, Syracuse, N. Y. Air-valve	566,954	Sept. 1	372	87	76	1353
Wheel Company. (See Curtis, Frederic A., assignor.)						
Wheelan, Fairfax H. (See Jessup and Wheelan.)						
Wheeler, Albert G. (See Law, Myron D., assignor.)						
Wheeler, Albert H., assignor of three-fourths to A. H. Thornton, F. A. Dunbar, Warwick, and W. J. Smith, Johnson, R. I. Shutter-worker	567,016	Sept. 1	501	118	76	1376
Wheeler, Albert H., and J. Gilbert, Warwick, R. I. Safety device for electric cars, &c	556,949	Mar. 24	2609	613	74	1666
Wheeler, Charles A., Bridgeport, Conn. Engine-valve	563,827	July 14	1006	239	76	204
Wheeler, Charles C., Holland, Mich. Window-screen	569,732	Oct. 20	1792	425	77	367
Wheeler, Charles E., Cambridge, assignor to I. W. Wheeler & Co., Boston, Mass. Machine for stripping cloth	558,542	Apr. 21	1816	441	75	377
Wheeler, Charles Y., Allegheny, Pa. Armor-piercing projectile	569,143	Oct. 6	730	171	77	139
Wheeler, Charles Y., Allegheny, Pa. Projectile-coating	573,120	Dec. 15	1816	442	77	1663
Wheeler & Co., I. W. (See Wheeler, Charles E., assignor.)						
Wheeler, David C., assignor to Acme Shear Company, Bridgeport, Conn. Shears	565,193	Aug. 4	457	109	76	701
Wheeler, Erskine D. (See Thayer and Wheeler.)						
Wheeler, George E., Minneapolis, Minn. Car-brake	553,442	Jan. 21	1713	409	74	349
Wheeler, George M. (See Michelfelder, William, assignor.)						
Wheeler, Henry C., Carbondale, Pa. Kitchen-cabinet	561,462	June 2	715	176	75	1505
Wheeler, Herbert A., St. Louis, Mo. Downdraft-kiln	553,947	Feb. 4	267	59	74	554
Wheeler, Herbert A., St. Louis, Mo. Steam-condenser	554,384	Feb. 11	1041	242	74	713
Wheeler, Herbert A., St. Louis, Mo. Bone-black kiln	556,603	Mar. 17	2034	476	74	1541
Wheeler, Holman K., Lynn, Mass. Sharpening-machine	558,916	Apr. 21	2463	599	75	496
Wheeler, James, Ilfracombe, England. Penholder	560,553	May 19	2202	503	75	1154
Wheeler, James A., Oswego, N. Y. Pulp-molding machine	568,389	Sept. 29	2899	698	76	1879
Wheeler, John, assignor of one-half to G. M. Edison, Grand Rapids, Mich. Hot-air furnace	564,322	July 21	1910	451	76	383
Wheeler, Joseph M., Windsor, N. Y. Scourer and polisher	555,629	Mar. 3	250	58	74	1176
Wheeler, Laurens S., Tyro, Kans. Wagon-brake	553,085	Jan. 14	1096	266	74	220
Wheeler, Mark D., Redfield, S. D. Strainer for Artesian wells	572,848	Dec. 8	1335	321	77	1552
Wheeler, Mollie, Rowlesburg, W. Va. Combined stand for strainers and tea and coffee pots	564,462	July 21	2147	501	76	426
Wheeler, Ralph H., Mystic, Conn. Sash holder and lifter	573,374	Dec. 15	2279	543	77	1747
Wheeler, Samuel H., Chicago, Ill. assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Retaining device for sewing-machine covers	557,925	Apr. 7	707	170	75	134
Wheeler, Schuyler S. (See Herzog and Wheeler.)						
Wheeler, Warren F., Stoneham, Mass. Snow-plow	568,507	Sept. 29	3102	747	76	1916
Wheeler, William H., assignor of two-thirds to J. L. Paul and R. G. Green, West Plains, Mo. Combined hoe, rake, and cultivator	556,389	Mar. 17	1651	386	74	1470
Wheeler, William P., Ottawa, Kans. Clothes-line holder	566,044	Aug. 18	2004	486	76	1031
Wheeler & Wilson Manufacturing Company. (See Abercrombie, William R., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Dimond and Dial, assignors.)						
Wheeler & Wilson Manufacturing Company. (See Lantischer, Alexander, assignor.)						
Wheeler & Wilson Manufacturing Company. (See Wheeler, Samuel H., assignor.)						
Wheelock, George L., New York, N. Y. Game apparatus	561,366	June 2	536	135	75	1473
Wheelright, Thomas S. (See Tiffany, George S., assignor.)						
Wheelwright, Charles S., Wickford, R. I. Agitating apparatus	555,061	Feb. 18	2243	536	74	954
Wheildon, William M., Boston, Mass. Rotary engine	553,086	Jan. 14	1097	266	74	220
Whelan, Henry W., Detroit, Mich., assignor to Diamond Match Company, Chicago, Ill. Machine for making and sanding match-box shucks	571,180	Nov. 10	1360	317	77	920
Whelden, Benjamin F., Ludlow, Vt. Heating-stove	555,414	Feb. 25	2860	675	74	1088
Wheless Electric Lamp Company. (See Wheless, Malone, assignor.)						
Wheless, Malone, assignor, by mesne assignments, to Wheless Electric Lamp Company, Washington, D. C. Electric-arc lamp	559,648	May 5	511	117	75	780
Wheless, Malone, assignor to Wheless Electric Lamp Company, Washington, D. C. Electric-arc lamp	559,649	May 5	514	118	75	780
Wherry, John. (See North and Stake, assignors.)						
Whipple, Alice A., Providence, R. I. Corset-steel protector	556,792	Mar. 24	2354	554	74	1619
Whipple, Charles E., North Charlestown, N. H. Latch	553,087	Jan. 14	1099	267	74	220
Whipple, Charles L., assignor of one-half to E. M. Scott, Los Angeles, Cal. Child's coasting-wagon	556,294	Mar. 10	1479	344	74	1423
Whipple, Effinger E., St. Johns, Mich. Harrow	556,075	Mar. 10	1051	250	74	1343
Whipple, Effinger E., St. Johns, Mich. Harrow	571,715	Nov. 17	2261	543	77	1100
Whipple, Eugene D., Creston, Iowa. Car-coupling	561,150	June 2	134	36	75	1392
Whipple, Eugene D., Creston, Iowa. Car-coupling	562,871	June 30	3183	770	75	2047
Whipple, George C. (See Ripson, John D., assignor.)						
Whipple, John H. (See Woods, Edward D., assignor.)						
Whisenant, Lemuel M., Perdue Hill, Ala. Liquid-blackening brush	572,462	Dec. 1	661	156	77	1404
Whisler, John H., Wakarusa, Ind. Fence	564,857	July 28	2828	675	76	568
Whisler, William H. (See Lofgreen and Whisler.)						
Whisman, James C., and L. F. Gerding, St. Joseph, Mo. Lubricator for axles	552,564	Jan. 7	105	30	74	21
Whitacre, Harvey H., and A. C. Wolfe, Wellsville, Ohio. Electromagnet for separating metals	555,546	Mar. 3	105	23	74	1150
Whitacre, Harvey H., and A. C. Wolfe, Wellsville, Ohio. Electric metal-separator	564,858	July 28	2830	675	76	568
Whitacre, Harvey H., and A. C. Wolfe, Wellsville, Ohio. Electric metal-separator	564,859	July 28	2831	676	76	568
Whitacre, Harvey H., and A. C. Wolfe, Wellsville, Ohio. Electric metal separator	573,741	Dec. 22	2980	705	77	1897
Whitacre, Richard E., assignor of two-thirds to S. H. Hull and F. R. Fitch, Oskaloosa, Iowa. Harness attachment	555,630	Mar. 3	251	58	74	1176

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Whitaker, Alfred J. P., and F. G. Treharne, Llanishen, England. Insulator for electrical purposes	566,045	Aug. 18	2005	486	76	1032
Whitaker, Channing, Tyngsborough, assignor to Lowell Machine Shop, Lowell, Mass. Fly-frame	554,407	Feb. 11	1075	251 232 252	74	720
Whitaker, Channing, Tyngsborough, assignor to Lowell Machine Shop, Lowell, Mass. Cone-rack-actuating mechanism for fly-frames	554,408	Feb. 11	1081	253 254	74	721
Whitaker, Channing, Tyngsborough, assignor to Lowell Machine Shop, Lowell, Mass. Fly-frame	554,409	Feb. 11	1091	254 255	74	722
Whitaker, Channing, Tyngsborough, assignor to Lowell Machine Shop, Lowell, Mass. Builder mechanism for spinning-frames	567,930	Sept. 15	2060	494 495	76	1695
Whitaker, Charles Z., Durham, N. C. Fountain marking-brush	570,583	Nov.	278	69	77	690
Whitaker, Harrison M. (See Riviere, Richard A., assignor.)						
Whitaker, James, <i>et al.</i> (See Appleton, John, assignor.)						
Whitaker, Thomas, Horsforth, England. Friction-gearing for cranes	563,344	July 7	196	44	76	40
Whitaker, William W., Gloversville, N. Y. Glove-fastener	554,100	Feb. 4	550	122	74	604
Whitaker, William W., Gloversville, N. Y. Bed-slat fastener	558,136	Apr. 14	1118	273	75	229
Whitcher, Frank W. (See Mower, Edwin F., assignor.)						
Whitcher, Richard P., Saugus, and J. Fitz Gibbons, Everett, assignors to F. A. Barbey, Cambridge, and J. F. Muldoon, Boston, Mass. Car-brake clamp	562,684	June 23	2823	685	75	1961
Whitcomb, Henry C., and J. H. Ware, Boston, Mass. Electrottype-plate holder	568,390	Sept. 29	2901	698	75	1879
Whitcomb, Horatio N., Waterloo, Canada. Cattle-guard	564,809	July 28	2748	653	76	553
Whitcomb, Rufus P., Jr., <i>et al.</i> (See Whitcomb, Willis E., assignor.)						
Whitcomb, William W., Brookline, assignor to Composite Brake-Shoe Company, Boston, Mass. Brake-shoe	562,346	June 16	2262	549	75	1840
Whitcomb, William W., Brookline, assignor to Composite Brake-Shoe Company, Boston, Mass. Brake-shoe	562,872	June 30	3186	771	75	2048
Whitcomb, William W., Brookline, and F. F. Coggin, Wakefield, assignors to Composite Brake Shoe Company, Boston, Mass. Brake-shoe	573,252	Dec. 15	2048	491	77	1706
Whitcomb, Willis E., assignor to G. L. Tanner and R. P. Whitcomb, Jr., Worcester, Mass. Harp	570,242	Oct. 27	2687	638	77	547
Whitcomb, Wilson W., Batavia, N. Y. Bicycle driving-gear	572,038	Nov. 24	2851	671	77	1231
White, Albert. (See Sullivan, Daniel F., assignor.)						
White, Albert, Lowell, assignor to P. Faber, Boston, Mass. Cash and parcel carrier	557,629	Apr. 7	176	45, 46	75	34
White, Albert, Lowell, Mass., assignor, by mesne assignments, to Columbia Cash Register Company, Portland, Me. Indicating mechanism for cash-registers	558,887	Apr. 21	2407	586 587	75	486
White, Albert, assignor of three-fourths to F. E. Jewett, Lowell, and J. and G. Bowers, Tyngsborough, Mass. Sign-shifter	552,860	Jan. 7	672	163	74	127
White, Albert, assignor of three-fourths to F. E. Jewett, Lowell, and J. and G. Bowers, Tyngsborough, Mass. Sign-shifter	566,705	Aug. 25	3139	768	76	1259
White, Albert, Lowell, Mass., assignor to C. E. House, Manchester, F. E. Holmes, Rocky Hill, and M. S. Tracy, Glastonbury, Conn. Vise	557,090	Mar. 24	2857	683	74	1716
White, Albert L., Chicago, Ill. Reed-organ action	559,014	Apr. 28	2633	641	75	546
White, Charles E., Monmouth, Ill. Check-row-line distributor	562,056	June 16	1762	426	75	1748
White, Charles E., Monmouth, Ill. Plow	571,421	Nov. 7	1759	419	77	1009
White, Charles E., assignor to Weir Plow Company, Monmouth, Ill. Corn-planter	557,739	Apr. 7	388	91, 92	75	74
White, Charles F., assignor of one-third to R. Gervin, Denver, Colo. Needle for repairing punctured bicycle tires with cement	571,422	Nov. 17	1760	420	77	1009
White, Charles G., assignor of one-half to J. F. Hink, Woodland, Cal. Rotary engine	570,584	Nov. 3	279	69	77	690
White, Charles L. (See Turner, Moses R., assignor.)						
White, Charles L. (See Turner, Kirby, and Turner, assignors.)						
White, Charles W., assignor to M. J. White, Waco, Tex. Mattress-stuffing machine	568,648	Sept. 29	3389	811 812	76	1968
White, Clarence O. (See Johnson, White, and Lloyd.)						
White, Clarence O., and M. B. Lloyd, Minneapolis, Minn. Reel	554,226	Feb. 4	760	173	74	645
White, David S., Northfield, Minn. Heater	564,402	July 21	2047	480	76	409
White, Edward D., <i>et al.</i> (See Stanley, Ira N., assignor.)						
White, Edward F., Quincy, assignor of one-half to J. E. Tibbetts, Brockton, Mass. Rotary rand	559,508	May 5	274	65	75	735
White, Edward H. (See Parker, William D., assignor.)						
White, Edward H., and W. D. Parker, Meriden, Conn.; said Parker assignor of one-half to said White. Automatic piano	573,427	Dec. 15	2399	572	77	1769
White, Edward W. (See Catlin, Eli, assignor.)						
White, Eugene D. (See Buchtel, Joseph, assignor.)						
White, Frank H., assignor of one-half to C. Hazel, Sturgis, Ky. Fence	562,996	June 30	3417	822	75	2097
White, Franklin R., and I. G. Platt, Waterbury, Conn. Button	559,919	May 12	1048	233	75	893
White, Franklin R., and C. M. Platt, Waterbury, Conn. Button	567,529	Sept. 8	1389	334	76	1550
White, Fred, <i>et al.</i> (See McElroy, William, assignor.)						
White, George, Jersey City, N. J. Speed-indicator	559,650	May 5	516	118	75	780
White, George, Brooklyn, assignor to O. M. Farrand, New York, N. Y. Lock	558,243	Apr. 14	1300	317	75	263
White, George A., Potsdam, N. Y. Model-holder	563,699	July 7	779	185	76	146
White, George A., Potsdam, N. Y. Chalk-screen for blackboard-troughs	570,692	Nov. 3	514	120	77	734
White, George S. (See Jackson and White.)						
White, Harry B., <i>et al.</i> (See Howe, William H., assignor.)						
White, Harvey, assignor to Whitman & Barnes Manufacturing Company, Syracuse, N. Y. Grindstone-frame	569,806	Oct. 20	1922	456 457	77	390
White, Hawley C., assignor to H. C. White Company, Bennington, Vt. Stereoscope	571,716	Nov. 17	2263	544	77	1101
White, Hedley, Marquez, Tex. Plow attachment	571,466	Nov. 17	1835	437	77	1023
White, James. (See Chute, John W., assignor.)						
White, James, Chicago, Ill. Wheel for vehicles	566,704	Aug. 25	3137	767	76	1259
White, James L., assignor of one-half to H. L. Chase, West Superior, Wis. Hollow blast rocking grate	554,556	Feb. 11	1329	311	74	768
White, James W., Lincoln, Ill. Corn-harvester	573,067	Dec. 15	1723	413	77	1645
White, John, Edinburgh, Scotland. Paper-drying cylinder	560,369	May 19	1781	406	75	1080
White, John F., Providence, R. I. Cotton-can	558,135	Apr. 14	1117	272	75	229
White, John L. (See Scott, Walter W., assignor.)						
White, John M., Chicago, Ill. Washer	554,431	Feb. 11	1133	264	74	731
White, John T., New York, N. Y. Lemon-squeezer	572,849	Dec. 8	1336	321	77	1553
White, Joseph A. (See Eager and White.)						
White, Joseph F., assignor to Estey Organ Company, Brattleborough, Vt. Reed-organ	554,757	Feb. 18	1684	397 398	74	852
White, Joseph P., assignor of one-half to A. S. Nichols, Savannah, Ga. Bottle-stopper	565,194	Aug. 4	458	110	76	701
White, Joseph W., assignor of one-half to W. S. Tyler, Cleveland, Ohio. Wire-weaving loom and shuttle	560,179	May 12	1530	345 346	75	984

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White, Lee, Hawkins, Tex. Walking seed-planter	554,159	Feb. 4	661	149	74	626
White, Lewis B., New York, N. Y. Apparatus for flavoring cigars	572,323	Dec. 1	423	100	77	1359
White, Lloyd M. (See Clark, Walter E., assignor.)						
White, Louis L., assignor of one-half to W. F. Lewis, Oakland, Cal. Mold for shaping metallic tooth-crowns	571,102	Nov. 10	1239	288	77	896
White, Mary, J. (See White, Charles W., assignor.)						
White, Moses H., Wanatchee, Wash., assignor of one-half to S. Saunders, Minneapolis, Minn. Water-elevator	570,526	Nov. 3	159	38, 39	77	667
White, Octavius A., New York, N. Y. Car-fender	562,870	June 30	3182	770	75	2047
White, Otis C., Worcester, Mass. Adjustable support	566,360	Aug. 25	2554	624	76	1150
White, Otis C., Worcester, Mass. Shade-holder for baby-carriages	566,361	Aug. 25	2555	624	76	1150
White, Philip. (See Rainey, John M., assignor.)						
White, S. L., et al. (See King, Calvin W., assignor.)						
White, Samuel A., assignor of one-half to G. H. Weigle, Harrisburg, Pa. Bicycle-gearing	555,274	Feb. 25	2618	614	74	1042
White, Scott A. (See Pritschau, Arthur F., assignor.)						
White Sewing Machine Company. (See Hitchcock, David S., assignor.)						
White, T. Stewart, et al. (See Billings, George W., assignor.)						
White, T. Stewart, et al. (See Friant and Linn, assignors.)						
White, T. Stewart, et al. (See Linn, Allen B., assignor.)						
White, T. Stewart, et al. (See Linn, Allen D. and A. B., assignors.)						
White, T. Stewart, et al. (See Raymond, Silas H., assignor.)						
White, Theodore G. (See Burns, Daniel M., assignor.)						
White, Thomas E., and J. A. Day, Tazewell, Tenn. Sidesaddle-tree	559,829	May 12	865	192	75	859
White, Uriah M. (See Whitlock and White.)						
White, William A. (See Watkins, Weston E., assignor.)						
White, William H., Nyack, assignor of one-half to E. W. Rutherford, Brooklyn, N. Y. Pencil-sharpener	569,698	Oct. 20	1724	410	77	356
White, William L., et al. (See Carr, Warren H., assignor.)						
White, William R., Bloomington, Ill. Operating mechanism for gates	552,943	Jan. 14	856	207	74	174
White, William R., Bloomington, Ill. Gate	553,662	Jan. 28	2105	498	74	436
White, William R., Knoxville, Tenn. Combined counter, drawer, and show-case	561,743	June 9	1224	290	75	1627
White, William R., Jerseyville, Ill. Gate	566,104	Aug. 18	2114	515	76	1051
White, William W., Brooklyn, assignor to himself, and R. B. Sears, Jersey City, N. J. Check-book	563,700	July 7	730	185	76	146
Whitehead, Benjamin S., Newark, N. J. Badge	555,197	Feb. 25	2499	588	74	1018
Whitehead, Benjamin S., Newark, N. J. Badge	565,582	Aug. 11	1169	281	76	852
Whitehead, Cabell, assignor of two-thirds to R. E. Preston, Washington, D. C., and T. G. Springer, Chicago, Ill. Compound of magnesium, calcium, and carbid.	555,796	Mar. 3	514	125	74	1223
Whitehead, Frederic C. (See Bruce and Whitehead.)						
Whitehead, Henry B., Memphis, Tenn. Electric switch	554,557	Feb. 11	1331	312	74	768
Whitehead, Henry B., assignor of one-half to J. J. Bishop, Memphis, Tenn. Brick-machine	571,629	Nov. 17	2121	509 510	77	1074
Whitehead & Hoag Company. (See Adams, George B., assignor.)						
Whitehead, John E., Lebo, Kans. Shell-cleaner	567,057	Sept. 1	571	133	76	1390
Whitehead, Oliver, assignor of one-half to W. E. Beeghly, Dayton, Ohio. Fence-stay	554,560	Feb. 11	1335	313	74	769
Whitehead, Oliver W., assignor of one-half to A. Lint, Dayton, Ohio. Fence	552,944	Jan. 14	857	207	74	174
Whitehead, Oliver W., assignor of one-half to W. E. Beeghly, Dayton, Ohio. Fence-post	567,557	Sept. 8	1434	345	76	1558
Whitehead, William H., Paterson, N. J. Beaming attachment	560,310	May 19	1782	406	75	1020
Whitehouse, Alfred I. (See Paul, Archibald, assignor.)						
Whiteley, Ben, assignor of one-half to I. N. Ford, Sterling, Colo. Hair-pin and button-hook	569,144	Oct. 6	731	172	77	139
Whiteley, Burt H., assignor to Whiteley Malleable Castings Company, Muncie, Ind. Apparatus for melting iron	554,558	Feb. 11	1332	312	74	768
Whiteley, Burt H., assignor to Whiteley Malleable Castings Company, Muncie, Ind. Apparatus for melting iron	554,559	Feb. 11	1334	312	74	769
Whiteley, James S., Baltimore, Md. Bicycle	562,446	June 23	2425	588	75	1886
Whiteley Malleable Castings Company. (See Whiteley, Burt H., assignor.)						
Whitely, Alexander A., Chicago, Ill. Exercising apparatus	557,176	Mar. 31	3008	718	74	1766
Whiteman, Charles, Rugby, England. Gate-latch	569,904	Oct. 20	2000	495	77	420
Whitestone, James, London, England. Securing rails to metallic sleepers	554,014	Feb. 4	387	85	74	576
Whitstone, James, London, England. Securing rails to metallic ties	556,118	Mar. 10	1125	267	74	1357
Whitfield, Charles, Kettering, England. Punching and eyeletting machine	557,738	Apr. 7	387	91	75	73
Whitfield, Daniel E., Malvern, Iowa. Spool attachment	556,523	Mar. 17	1913	445	74	1520
Whitfield, Jacob H., New Brunswick, N. J. Portable sawing-machine	564,297	July 21	1866	437	76	375
Whitford, Charles, Milwaukee, Wis. Combination-table	572,391	Dec. 1	555	131	77	1384
Whitford, Edward L., et al. (See Rose, Preston B., assignor.)						
Whitin Machine Works. (See Ashby, Peter, assignor.)						
Whitin Machine Works. (See Gregson and Murray, assignors.)						
Whitin Machine Works. (See Owen, Henry A., assignor.)						
Whiting Manufacturing Company. (See Fletcher, Edwin J., assignor.)						
Whiting, Paul. (See Vickerman, John, assignor.)						
Whiting, Rachel M., et al. (See Whiting, William M., assignor.)						
Whiting, William M., assignor to R. M. Whiting, East Orange, N. J., and C. Richardson, New York, N. Y. Trolley for electric railways	570,078	Oct. 27	2393	567	77	492
Whiting, Winslow L., assignor to A. E. Nevers, Newark, N. J. Folding table and tray	568,321	Sept. 22	2783	669 670	76	1842
Whitlock, Elliott H., and U. M. White, Cincinnati, Ohio. Autographic register	565,195	Aug. 4	460	110	76	702
Whitlock, Erastus W. (See Shepard and Whitlock.)						
Whitlock, James G., et al. (See Ritter, John L., assignor.)						
Whitlock Machine Company. (See Whitlock, Sturges, assignor.)						
Whitlock, Sturges, Shelton, assignor to Whitlock Machine Company, Derby, Conn. Bed-movement for printing-presses	560,180	May 12	1532	346 347	75	984
Whitlow, Charles, Washington, D. C. Car-window ventilator	554,160	Feb. 4	662	149	74	626
Whitman & Barnes Manufacturing Company. (See Hoenscheid, Peter J., assignor.)						
Whitman & Barnes Manufacturing Company. (See Martin, Henry J., assignor.)						
Whitman & Barnes Manufacturing Company. (See White, Harvey, assignor.)						
Whitman, William E., Auburn, Me. Weeder	555,142	Feb. 25	2391	567	74	999
Whitmarsh, William P., Quincy, Mass. Machine for feeding horseshoe-nail blanks	573,560	Dec. 22	2637	626 627 628	77	1831
Whitmore, Edwin B., assignor of one-half to L. Emery, Jr., Three Rivers, Mich. Dust-collector	573,837	Dec. 22	3143	749	77	1927
Whitmore, James T., Cleveland, Ohio. Book-holder	571,254	Nov. 10	1483	348	77	942

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Whitmore, Nathaniel G., assignor of one-fourth to J. E. Maynadier, Taunton, Mass. Primer for cartridges.	567,114	Sept. 1	674	157	76	1410
Whitner, Hiram K., Chicago, Ill. Safety-support for window-cleaners.	559,472	May 5	214	48	75	724
Whitney, Arthur E., Winchester, Mass. Machine for unhairing and working hides.	552,628	Jan. 7	211	58, 59	74	42
Whitney, Arthur E., Winchester, Mass. Hide-working cylinder.	570,653	Nov. 3	434	103	77	719
Whitney, Charles, Winnetka, Ill. Photographic shutter.	555,986	Mar. 10	873	206	74	1314
Whitney, Edward H., Cambridge, assignor to Dover Stamping Company, Boston, Mass. Dust-pan.	554,848	Feb. 18	1845	434	74	884
Whitney, Edwin H., East Providence, assignor to American Ship Windlass Company, Providence, R. I. Ship's windlass.	572,781	Dec. 8	1230	{ 297 298 }	77	1531
Whitney Electrical Instrument Company. (See Hoyt, Adrian H., assignor.)						
Whitney, Frank, Winnetka, Ill. Magazine-camera.	552,654	Jan. 7	269	73, 74	74	53
Whitney, Frank, Winnetka, Ill. Bicycle tool-box and seat.	563,526	July 7	494	115	76	94
Whitney, Frank E., Melrose, Mass. Hydraulic engine.	560,324	May 19	1912	{ 435 436 }	75	1103
Whitney, George T., assignor to J. M. Stevens, Chicago, Ill. Boring-machine.	561,950	June 9	1583	{ 383 384 }	75	1694
Whitney, Hugh M., Minneapolis, Minn. Bag-fastener.	561,299	June 2	414	102	75	1450
Whitney, Isaac. (See Ryan and Whitney.)						
Whitney, James A., Norwalk, Ohio. Knife or scissors sharpener.	564,403	July 21	2049	4-0	76	409
Whitney, Mary E. (See Phinney and Adams, assignors.)						
Whitney, Mary E. (See Phinney and Trinder, assignors.)						
Whitney, Oscar L., Cambridge, Mass. Car-fender.	563,109	June 30	3625	869	75	2136
Whitney, Robert W. (See Ferguson and Whitney.)						
Whitney, Walter S., Glens Falls, N. Y. Car-brake.	553,973	Feb. 4	310	69	74	561
Whitney, William A., et al. (See Moore, James L., assignor.)						
Whitney, William A., et al. (See Moore and Brown, assignors.)						
Whitney, William A., Byron, Ill. Check-hook.	561,248	June 2	291	73	75	1424
Whitney, William O., Glens Falls, N. Y. Folding umbrella.	573,375	Dec. 15	2280	544	77	1747
Whiton, Lucius E., New London, Conn. Clutch mechanism.	564,417	July 21	2069	{ 484 485 }	76	413
Whiton, Lucius E., New London, Conn. Centering-machine.	571,817	Nov. 24	2459	585	77	1158
Whittaker, Charles, New York, N. Y. Faucet.	566,432	Aug. 25	2688	656	76	1177
Whittaker, K. G. (See Sheppard, Frank, assignor.)						
Whittaker, Matthew H., Hull, England, assignor to Mergenthaler Linotype Company, of New Jersey. Means for facilitating alterations of printing-surfaces.	557,039	Mar. 24	2779	660	74	1699
Whittaker, Matthew H., Kingston-upon-Hull, England, assignor, by mesne assignments, to Mergenthaler Linotype Company, New York, N. Y. Means for trimming linotype-bars.	562,560	June 23	2607	633	75	1919
Whittaker, Thomas, Acerington, England. Brick-press.	566,105	Aug. 18	2115	515	76	1051
Whittall, George M. (See Fawcett, Francis B., assignor.)						
Whittall, George M. (See Webb, Whittall, and Fawcett.)						
Whittemore, Charles. (See Whittemore and Glass, assignors.)						
Whittemore, Charles, et al. (See Nason, Horace F., assignor.)						
Whittemore, James M., Washington, D. C. Magazine-gun.	572,919	Dec. 8	1450	{ 349 350 }	77	1577
Whittemore, John Q. A., et al. (See Nason, Horace F., assignor.)						
Whittemore, Walter L., and P. R. Glass, Quincy, assignors to C. Whittemore, Newton, Mass. Pegging-horn.	567,626	Sept. 15	1557	375	76	1597
Whitten, John T., Passaic, N. J. Splint-machine.	572,232	Dec. 1	244	58	77	1325
Whitten, Orlando R. F., Prescott, Ark. Seed-planter and guano-distributor.	565,949	Aug. 18	1841	448	76	999
Whittier Machine Company. (See Clark, John H., assignor.)						
Whittier Machine Company. (See Pratt, Charles R., assignor.)						
Whittingham, Charles, assignor to Cleveland Foundry Company, Cleveland, Ohio. Gas-heater.	554,355	Feb. 11	997	230	74	705
Whittingham, George H., Baltimore, Md., assignor to Automatic Switch Company of Baltimore City, of Maryland. Automatic device for removing resistance in starting electric motors, &c. (Reissue).	11,545	May 26	3163	731	75	1353
Whittington, George W., New Market, Ind. Knotting mechanism for twine-binding har-	567,627	Sept. 15	1557	{ 375 376 }	76	1597
Whittington, Joseph H., assignor to Forsyth Manufacturing Company, Buffalo, N. Y. Bi-cycle-lamp bracket.	568,649	Sept. 29	3392	812	76	1969
Whittle, James H., Worcester, Mass. Screen for carding-engines.	566,362	Aug. 25	2557	625	76	1150
Whittum, Edward M., Fall River, Mass. Separator for spinning-machines.	555,911	Mar. 3	724	{ 174 175 }	74	1264
Whitty, Robert. (See Conlin and Whitty.)						
Wholton, William, Hamilton, Canada. Music holder, folder, and stand.	554,161	Feb. 4	663	{ 149 150 }	74	626
Whyatt, Henry J., Bristol, England, assignor to H. H., A., and A. Turner, Danbury, Conn. Machine for veluring felt or silk hats.	568,391	Sept. 29	2902	698	76	1880
Whyman, Horatio O., Norfolk, assignor of one-fourth to E. A. Houston, Niobrara, Nebr. Boot or shoe lacing.	570,585	Nov. 3	280	69	77	690
Wiard, Frederick, assignor to Wiard Plow Company, Batavia, N. Y. Horse hay-rake.	559,920	May 12	1049	{ 233 234 }	75	893
Wiard, Frederick, assignor to Wiard Plow Company, Batavia, N. Y. Weeder.	562,106	June 16	1858	451	75	1764
Wiard, George, assignor to Wiard Plow Company, Batavia, N. Y. Plow.	552,945	Jan. 14	859	207	74	175
Wiard, Harry, Syracuse, N. Y. Cultivator.	557,465	Mar. 31	3534	{ 844 845 }	74	1862
Wiard Plow Company. (See Wiard, Frederick, assignor.)						
Wiard Plow Company. (See Wiard, George, assignor.)						
Wiatt, Addison M., Minneapolis, Minn. Butter-jar.	574,126	Dec. 29	3681	877	77	2040
Wichman, Herman W. (See Brooker, Henry, assignor.)						
Wichman, Herman W., Fort Wayne, Ind. Washing-machine.	552,736	Jan. 7	426	108	74	82
Wicks, Wilhelm, assignor to Forest City Steel Range Company, Cleveland, Ohio. Cook-ing-range.	556,451	Mar. 17	1774	411	74	1494
Wickers, Joseph C., New York, N. Y. Blacking-brush.	560,577	May 26	2836	649	75	1291
Wickey, Andrew, Chicago, Ill. Baling-press.	556,233	Mar. 10	1336	314	74	1395
Wicks, Frederick, London, England. Type-molding machine.	565,820	Aug. 11	1587	388	76	931
Wicks, George L., Rochester, N. Y. Book-holder.	565,583	Aug. 11	1171	282	76	853
Wicks, John L., Fitzgerald, Ill. Brake-shoe.	573,376	Dec. 15	2282	544	77	1748
Wicks, Joseph F., and B. S. Roy, Worcester, Mass. Pattern mechanism for looms.	557,295	Mar. 31	3242	777	74	1805
Wicks, Joseph F., and B. S. Roy, Worcester, Mass. Shuttle-actuating mechanism for looms.	563,345	July 7	197	44	76	40
Wicks, Joseph F., and B. S. Roy, Worcester, Mass. Shedding mechanism for looms.	563,346	July 7	199	44	76	40
Wicks, Lars T., Newark, assignor of one-half to G. W. Gurley, Sandwich, Ill. Disk harrow.	555,143	Feb. 25	2392	567	74	999

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Wicks, Lars T., Newark, assignor of one-half to G. W. Gurley, Sandwich, Ill. Disk harrow.	555,144	Feb. 25	2394	568	74	1000
Wicks, Richard V. W., Brooklyn, N. Y. Couch	559,242	Apr. 28	3094	747	75	632
Wickson, G. G. (See Turner, William M., assignor.)						
Wickwire, Edward G., Larned, Kans. Pen or pencil holder	571,630	Nov. 17	2127	511	77	1075
Widmer, Adolph and S., Paterson, N. J. Loom-shuttle	562,685	June 23	2824	685	75	1961
Widmer, Charles, Sr., Brooklyn, N. Y. Game-counter	572,920	Dec. 8	1458	350	77	1578
Widmer, Charles A., New York, N. Y. Workman's time-register	556,452	Mar. 17	1775	411	74	1495
Widmer, Louis J., Waco, Tex. Stump-puller	557,630	Apr. 7	183	47	75	36
Widmer, Samuel. (See Widmer, Adolph and S.)						
Wiechmann, Ferdinand G., New York, N. Y. Treating sugar or other solutions.	553,974	Feb. 4	312		74	562
Wiedeman, George, Jr. (See Mueller, George A., assignor.)						
Wiederhold, Oscar. (See Schwagerman, William, assignor.)						
Wiedring, Ferdinand C., Chicago, Ill. Process of and apparatus for aging beer, wine, &c.	564,130	July 14	1575	370	76	310
Wiegand, S. Lloyd. (See Hutchinson and Wiegand.)						
Wiegand, S. Lloyd. (See McBride, Naulty and Wiegand.)						
Wieland, Franz, Berlin, Germany. Pestle and squashing apparatus	568,009	Sept. 22	2223	537	76	1737
Wieland, Lewis, Jersey City, N. J. Tramway-car	560,385	May 19	1915	436	75	1104
Wieland, Lewis, Jersey City, N. J. Railway-switch	563,828	July 14	1010	240	76	205
Wieler, Joseph, <i>et al.</i> (See Reichardt, Henry C., assignor.)						
Wiesenfeld, Robert S., and L. B. Bernei, Baltimore, Md. Garment-fastener	562,997	June 30	3418	622	75	2097
Wiesenhorn, August, <i>et al.</i> (See Williams, John A., assignor.)						
Wieser, Louis, Washington, D. C. Attachment for sewing-machines	562,873	June 30	3188	771	75	2048
Wiestner, John H., Philadelphia, Pa. Nut-lock	560,554	May 19	2203	503	75	1154
Wietlisbach, Victor, Bern, Switzerland, assignor to Western Electric Company, Chicago, Ill. Toll-board apparatus for telephone-exchanges	566,829	Sept. 1	156	37	76	1312
Wigan, Richard, Manchester, England. Pipe-coupling	557,296	Mar. 31	3243	778	74	1806
Wigell, Charles O., and F. E. Wolff, Chicago, Ill. Machine for cleaning and polishing mold- ings	554,758	Feb. 18	1691	{ 398 399 }	{ 74 74 }	{ 853 853 }
Wiget, Dominick, and J. B. Schneider, St. Louis, Mo. Shears	566,830	Sept. 1	159	37	76	1312
Wiggin, Mary E., Hartford, Conn. Neck and ear muffler	561,186	June 2	208	50	75	1407
Wiggin, William H., Worcester, Mass. Electric rail-bond	562,107	June 16	1859	451	75	1764
Wiggin, William H., Worcester, Mass., assignor to Marcus Mason Manufacturing Com- pany, of New York. Wire-swaging machine	565,821	Aug. 11	1589	389	76	931
Wiggins, Richard N., and E. L. Davis, Dardanelle, Ark. Hand well-auger	568,467	Sept. 29	3032	728	76	1903
Wiggins, William, Brockton, Mass. Running-board attachment for street-cars	560,454	May 19	2046	466	75	1126
Wiggins, William, Brockton, Mass. Safety appliance for street-cars	570,888	Nov. 3	860	200	77	801
Wiggins, William H., Brooklyn, N. Y., assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Bowling-alley	552,801	Jan. 7	559	136	74	106
Wiggins, William H., Brooklyn, N. Y., assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Ball-run way for bowling-alleys	554,611	Feb. 11	1435	337	74	788
Wightman, Benjamin E., Oskaloosa, Iowa. Coal-screen	566,260	Aug. 18	2356	577	76	1098
Wightman, Merle J., Scranton, Pa. Electric bond	569,266	Oct. 13	946	227	77	196
Wightman, Merle J., Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Alternating-current motor	562,682	June 23	2825	685	75	1961
Wigmore, William H., Philadelphia, Pa. Atomizer-valve	554,436	Feb. 11	1134	265	74	731
Wigzell, Eustace E., London, England. Steam-engine	554,966	Feb. 18	2054	{ 457 488 425 426 }	{ 74 76 76 76 }	{ 921 367 367 367 }
Wiking, Anders F., Stockholm, Sweden. Hydraulic steering-machine for ships	564,265	July 21	1816			
Wikoff, Cyrus F., West Union, Ohio. Churn	552,946	Jan. 14	860	208	74	175
Wilbraham Baker Blower Company. (See Green, Thomas W., assignor.)						
Wilbraham, George F., Windsor, Conn. Sprayer	563,829	July 14	1012	240	76	205
Wilbur, George E., assignor to Weir Stove Company, Taunton, Mass. Oven-thermometer	555,275	Feb. 25	2620	614	74	1042
Wilbur, George H., Boston, Mass. Lamp-wick and producing same	568,832	Oct. 6	186	45	77	38
Wilce, Thomas. (See Burnham, John P., assignor.)						
Wilcke, Adolph, Chicago, Ill. Ornamenting wood surfaces	566,046	Aug. 18	2006		76	1032
Wilcomb, Edgar H., Worcester, Mass. Web-printing press	567,776	Sept. 15	1807	{ 433 434 435 }	{ 76 76 76 }	{ 1646 1646 1646 }
Wilcomb, Frank, assignor to Narragansett Knitting Company, Pawtucket, R. I. Sinker mechanism for knitting-machines	559,830	May 12	865	{ 192 193 193 }	{ 75 75 75 }	{ 859 859 859 }
Wilcomb, Frank, assignor to Narragansett Knitting Company, Pawtucket, R. I. Knit- ting-machine	559,831	May 12	867	{ 193 194 195 }	{ 75 75 75 }	{ 859 859 859 }
Wilcomb, Frank, assignor to Narragansett Knitting Company, Pawtucket, R. I. Fashion- ing mechanism for knitting-machines	559,832	May 12	874	{ 195 196 197 }	{ 75 75 75 }	{ 861 861 861 }
Wilcox, Alvin S., <i>et al.</i> (See Churchill, Henry P., assignor.)						
Wilcox, Amos A., and E. C. Alderman, Cleveland, Ohio. Copy holder	553,088	Jan. 14	1102	267	74	221
Wilcox, Charles M., Newark, N. J. Car-fender	553,549	Jan. 28	1939	452	74	401
Wilcox, Crittenden & Co. (See Holmes, Hiram C., assignor.)						
Wilcox, Darius, Mechanicsburg, Pa. Fifth-wheel	570,194	Oct. 27	2594	{ 616 617 }	{ 77 77 }	{ 530 530 }
Wilcox, Elijah A., New York, N. Y. Separable frame	562,108	June 16	1861	411	75	1764
Wilcox, Ferdinand S., Iola, Tex. Permutation-padlock	562,874	June 30	2189	771	75	2048
Wilcox, Ferdinand S., Iola, Tex. Governor for steam-engines	566,640	Aug. 25	3025	739	76	1241
Wilcox, Fred E. (See Foster and Wilcox.)						
Wilcox, George H. (See Jackson, Demas H., assignor.)						
Wilcox, Henry. (See Wilcox, Theodore B. and H.)						
Wilcox, Henry W., Winsted, Conn. Neck-yoke	557,041	Mar. 24	2781	661	74	1700
Wilcox, John D., Pine City, Minn. Potato-digger	560,555	May 19	2204	503	75	1154
Wilcox, Melvin L., Bay City, Mich. Bicycle ball-bearing	570,860	Nov. 3	801	184	77	787
Wilcox, Myron H., Chillicothe, assignor of one-half to C. Kautz, Jr., Berger, Mo. Siphon- valve for water-tanks	565,314	Aug. 4	676	162	76	741
Wilcox, Samuel W., Mendon, Mass. Centering device for bits	568,932	Oct. 6	361	83	77	69
Wilcox, Sidney F., New York, N. Y. Automatic gas-cut-off for railway-cars, &c.	563,111	June 30	3627	869	75	2136
Wilcox, Sidney F., New York, N. Y. Bicycle-brake	563,692	July 7	666	166	76	125
Wilcox, Theodore B. and H., Newark, N. J. Inhaler	552,600	Jan. 7	166	46	74	33
Wilcox, Walter E., Arkansas City, Kans. Puzzle	562,264	June 16	2112	512	75	1811
Wilcox, Whiting J., Cornwall, Conn. Mechanical toy	552,802	Jan. 7	561	136	74	106
Wilcox, William R., Steamboat Springs, Colo. Wagon-jack	568,468	Sept. 29	3033	728	76	1903
Wilcoxon, M. H. (See Devore, Levi M., assignor.)						
Wild, Daniel J. (See Wild, James W., assignor.)						
Wild, James, deceased; W. H. Finckel, Washington, D. C., ancillary administrator. Shed- ding mechanism for looms	560,578	May 19	2243	514	75	1163

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Wild, James W., Boston, assignor of one-half to D. J. Wild, Cambridge, Mass. Candlestick	571,962	Nov. 24	2727	644	77	1209
Wild, William E., Denver, Col. Ore-concentrator	568,888	Oct. 6	297	68	77	57
Wilday, John H., assignor of two-thirds to R. W. Hutton and Z. K. Loucks, Philadelphia, Pa. Darning apparatus	572,921	Dec. 8	1459	351	77	1578
Wilde, John, Providence, R. I., assignor to J. L. Sweet, Attleborough, Mass. Watch-chain hook	564,493	July 21	2190	513	76	434
Wilde, Louis J., assignor of one-half to M. Salvin, New York, N. Y. Elastic tubular tire	572,738	Dec. 8	1158	278	77	1518
Wilder, Charles W., Fitchburg, Mass. Wood-turning lathe	569,776	Oct. 20	1875	445	77	381
Wilder, Corwin, and E. Pattrill, Derrick City, Pa. Polish-rod adjuster	554,561	Feb. 11	1336	313	74	769
Wilder, Edgar A., Fredonia, N. Y. Filter	557,177	Mar. 31	3009	718 719	74	1767
Wilder, Elihu, deceased, Cambridge; L. Wilder, executrix, assignor to H. O. Moses, Lynn, Mass. Machine-gun	563,701	July 7	781	185 186 187	76	147
Wilder, Lauraetta, executrix. (See Wilder, Elihu.)						
Wilder, Moses G., Philadelphia, Pa. Liquid-heater	557,740	Apr. 7	392	92, 93	75	74
Wilder, William H., Northampton, Mass. Valve	561,638	June 9	1030	247	75	1590
Wilder, William H., Florence, Mass. Lamp-stove	570,527	Nov. 3	161	39, 40	77	668
Wildhagen, Henry J., Palatine, Ill. Plow	566,641	Aug. 25	3026	740	76	1241
Wildman, Arthur E., Selma, Ohio. Automatic brake for railway-cars	565,248	Aug. 4	581	136	76	732
Wildt, Henry W., Alexandria, Va. Watch-bow pliers	562,998	June 30	3419	822	75	2097
Wiles, Richard S., and H. A. Groux, West Orange, N. J. Watch-holder for conductors, motormen, &c	563,534	July 7	504	117	76	96
Wiles, Robert H., Freeport, Ill. Electric mining-machine	568,933	Oct. 6	363	83	77	70
Wiles, Thomas S. (See Conkling and Wiles.)						
Wiley, Jonas T., and E. E. Boyd, Liscomb, Iowa. Pipe-wrench	568,966	Oct. 6	430	95	77	83
Wiley & Russell Manufacturing Company. (See Smart, Albert J., assignor.)						
Wilgus, Daniel C., Los Angeles, Cal. Pipe and hose coupling	553,089	Jan. 14	1103	267	74	221
Wilgus, Daniel C., Los Angeles, Cal. Automatic sight-feed crude-oil burner	558,934	Oct. 6	364	84	77	70
Wilhelm, Gotthilf F., New York, N. Y. Muff	566,642	Aug. 25	3028	740	76	1241
Wilhelm, Henry S., et al. (See La Rue, Lafayette M., assignor.)						
Wilhelm, John F., New York, N. Y. Glove and fur sewing machine	562,109	June 16	1862	451 452	75	1764
Wilhelm, Walter L.; W. Wilhelm, guardian of said Walter L. Wilhelm, assignor of one-half to B. J. Tillman, Buffalo, N. Y. Telephone-transmitter	557,741	Apr. 7	395	93	75	74
Wilhelm, William, guardian. (See Wilhelm, Walter L.)						
Wilken, Frederick J. (See Seifert, Boarke, and Wilken.)						
Wilkins, John D., assignor to J. N. Crouse, Chicago, Ill. Dental engine	559,426	May 5	144	30, 31	75	708
Wilkinson, Pery L., York Station, Ala. Automatic photographic shutter	573,499	Dec. 22	2538	601	77	1812
Wilkinson, Thomas D., Peoria, Tex. Water elevator and carrier	565,584	Aug. 11	1172	282	76	853
Wilkes, Frank C., Manchester, England. Banjo	554,987	Feb. 18	2056	488	74	922
Wilkin, John T., Connorsville, Ind. Hydraulic elevator mechanism	552,565	Jan. 7	106	30	74	22
Wilkin, Theodore S., assignor to Filer & Stowell Company, Milwaukee, Wis. Valve	569,366	Oct. 13	1121	267 268	77	231
Wilkin, William M., Erie, Pa. Sawmill-dog	559,427	May 5	145	31	75	709
Wilkin, William M., Erie, Pa. Sawmill-carriage	559,428	May 5	146	31	75	709
Wilkin, William M., Erie, Pa. Log-turner for sawmills	559,429	May 5	147	32	75	709
Wilkin, William M., Erie, Pa. Sawmill-trimmer	559,430	May 5	149	32	75	710
Wilkin, William M., Erie, Pa. Gang-saw mill	572,922	Dec. 8	1461	351	77	1578
Wilkins, Alexander G., Meadville, Pa. Wire-cutter	568,010	Sept. 22	2224	537	76	1737
Wilkins, Charles M., Wilmington, Del. Milk-receiver	564,131	July 14	1578	370	76	311
Wilkins, Edward, et al. (See Slight, Emsley L., assignor.)						
Wilkins, Nellie J., Boston, Mass. Garment-stay	554,385	Feb. 11	1042	242	74	713
Wilkins, Willie A., Travis, Tex. Inkstand	572,623	Dec. 8	941	228	77	1477
Wilkinson, Abraham, et al. (See Smith, John A., assignor.)						
Wilkinson, Asa W., New York, N. Y. Manufacturing gas	556,910	Mar. 24	2552	601	74	1656
Wilkinson, Asa W., New York, N. Y. Manufacturing gas	556,911	Mar. 24	2553	601	74	1656
Wilkinson, Asa W., New York, N. Y. Making gas	566,363	Aug. 25	2558	625	76	1151
Wilkinson, Charles P., Jackson, Mich. Electric signal	567,759	Sept. 15	1785	428	76	1642
Wilkinson, Charles P., Jackson, Mich. Electric track-signal	567,760	Sept. 15	1786	429	76	1642
Wilkinson & Co., William H. (See Wilkinson, William H., assignor.)						
Wilkinson, Jabez, Fall River, assignor of one-half to Mason Machine Works, Taunton, Mass. Adjustable guide for cloth-roll stands	565,315	Aug. 4	677	162	76	741
Wilkinson, John B. (See Ridgway, Charles L., assignor.)						
Wilkinson, John M., Batesville, Ark. Animal-trap	574,294	Dec. 29	4023	955	77	2101
Wilkinson, Robert, Philadelphia, Pa. Car-fender	559,091	Apr. 28	2769	670	75	572
Wilkinson, William H., Medway, Mass. Oil-cup	567,182	Sept. 8	791	186	76	1443
Wilkinson, William H., assignor to W. H. Wilkinson & Co., Boston, Mass. Oil-cup	561,187	June 2	209	50	75	1407
Wilkinson, William J., Philadelphia, Pa. Clutch for holding glass articles while being finished	571,255	Nov. 10	1484	349	77	942
Wilkinson, William L., Olathe, Kans. Heating-stove	562,875	June 30	3190	772	75	2049
Wilks, Frank H., assignor of one-half to J. D. Johnston, Newport, R. I. Knife	561,842	June 9	1405	337	75	1659
Wilks, William U., Curtis, Ala. Car coupling	572,938	Dec. 8	1490	357	77	1584
Will, Frederick, Rochester, N. Y. Cooking-stove	558,626	Apr. 21	1956	474	75	402
Will, Frederick, Rochester, N. Y. Cooking-stove. (Reissue.)	11,563	Aug. 18	2397	588	76	1105
Willard, Daniel W., Redlands, Cal. Outlet and cut-off for irrigating-flumes	559,651	May 5	517	119	75	*781
Willard & Frick Manufacturing Company. (See Frick, Frederick A., assignor.)						
Willard, George A., Peterborough, N. H., assignor to Chase Lasting Machine Company, Boston, Mass. Nipper-jaw for lasting-machines	566,831	Sept. 1	160	37	76	1313
Willard, George A., Peterborough, N. H., assignor to Chase Lasting Machine Company, of Maine. Wiper for lasting-machines	561,189	June 2	212	51	75	1408
Willard, George W., Detroit, Mich. Picture and picture-hook hanger	573,945	Dec. 29	3336	797	77	1977
Willard, Henry G. (See Carson, George J., assignor.)						
Willard, Jacob O., et al. (See Brenneisen, John E., assignor.)						
Willard, John W., Pittsford, Vt. Hook-fastener	562,688	June 23	2830	687	75	1962
Willard, John W., Pittsford, Vt., assignor to C. G. Farwell, Quincy, Mass. Antirattler for thill-couplings	561,188	June 2	210	51	75	1408
Willard, Joseph R., Chicopee, Mass. Attachment for metal-planing machines	564,810	July 28	2749	653	76	553
Willard, William A., et al. (See Williams, Henry E., assignor.)						
Willcock, Stephen, assignor to R. E. Gunther, Toronto, Canada. Clock-resonator	557,040	Mar. 24	2780	661	74	1700
Willcox, Charles H., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Needle-threader for sewing-machines	571,818	Nov. 24	2463	585	77	1158
Willcox, Charles H., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Feed mechanism for sewing-machines	572,039	Nov. 24	2852	671 632	77	1231

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Willcox, Charles H., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine.	572,040	Nov. 24	2854	672	77	12 2
Willcox, Charles H., New York, and S. Borton, Brooklyn, assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Feed mechanism for sewing machines.	572,041	Nov. 24	2857	672	77	1232
Willcox, Charles H., New York, N. Y., and C. Carleton, Providence, R. I., assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine.	572,042	Nov. 24	2859	672	77	1233
Willcox & Gibbs Sewing Machine Company. (See Borton, Stockton, assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Brush, Otis B., assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Willcox, Charles H., assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Willcox and Borton, assignors.)						
Willcox & Gibbs Sewing Machine Company. (See Willcox and Carleton, assignors.)						
Willem, Marie F. J., Paris, France. Carriage-shaft.	565,316	Aug. 4	678	163	76	741
Willems, Abner A., McKeesport, Pa., assignor to G. E. Morton, Townesville, N. C. Folding crate.	568,553	Sept. 29	3203	771	76	1933
Willems, Albert M., Camden, N. J. Engineer's valve for air-brake systems.	561,300	June 2	415	{ 102 103 }	{ 75 }	1450
Willems, Albert M., Camden, N. J. Air-brake.	561,301	June 2	418	{ 103 104 }	{ 75 }	1451
Willett, Samuel J., et al. (See Newman, Nelson, assignor.)						
Willets, George H., Zelenople, Pa. Explosive-engine.	567,530	Sept. 8	1390	335	76	1550
Willey, George W., Philadelphia, Pa. Car-fender.	569,699	Oct. 20	1726	410	77	356
Willford, George W., Sheffield, England. Apparatus for manufacturing plate or leaf springs.	560,074	May 12	1341	{ 300 301 }	{ 75 }	949
Willhain, Wigard, et al. (See Broeker, Heinrich, assignor.)						
Willhour, Jacob, et al. (See Aiton, John W., assignor.)						
William Clark Company. (See Clark, William, assignor.)						
William Deering & Company. (See Appleby, John F., assignor.)						
William Deering & Company. (See Ellis and Steward, assignors.)						
William L. Gilbert Clock Company. (See McCabe, Thomas W. R., assignor.)						
William L. Gilbert Clock Company. (See Woodruff and McCabe, assignors.)						
William Mann Company. (See Deckert, Joseph O., assignor.)						
William Sellers & Company. (See Sellers, William, assignor.)						
William Sellers & Company. (See Sellers, Bancroft and Barth, assignors.)						
William Wharton, Jr., & Company, Incorporated. (See Angerer, Victor, assignor.)						
William Wharton, Jr., & Company, Incorporated. (See Howe and Angerer, assignors.)						
Williams, A. H. (See Schlesinger, William M., assignor.)						
Williams, Adolph A. (See Agerell and Williams)						
Williams, Abijah C., Janesville, Wis. Checkrein attachment.	571,987	Nov. 24	2769	653	77	1217
Williams, Albert G., Mattoon, Ill. Trance-carrier.	567,058	Sept. 1	572	133	76	1390
Williams, Albert J., Fulton, N. Y. Pitman.	561,639	June 9	1030	247	75	1590
Williams, Albert P., Galveston, Ind. Gravel-dump.	572,233	Dec. 1	246	59	77	1325
Williams, Alfred G., Newark, N. J., assignor to L. W. Levy, Castleton, and E. Dreyfus, New York, N. Y. Clasp for eyeglass-cases, &c.	569,267	Oct. 13	948	227	77	196
Williams, Allan A., and T. Wilmore, Troy, N. Y. Ice-shoe for vehicles.	562,506	June 23	2509	608	75	1903
Williams, Andrew P., St. Louis, Mo. Brake-beam.	560,558	May 19	2207	504	75	1155
Williams, Angus M., Philadelphia, Pa. Tire-fastening.	571,872	Nov. 24	2561	607	77	1176
Williams, Benajah, Chicago, Ill. Wrapper for newspapers, &c.	558,244	Apr. 14	1302	318	75	263
Williams, Charles A. (See Carter and Williams.)						
Williams, Charles D., Detroit, Mich., and J. H. Elliott, Windsor, Canada. Child's seat for bicycles.	556,951	Mar. 24	2612	614	74	1667
Williams, Charles E., Columbus, Ohio. Pan-lifter.	555,988	Mar. 10	878	209	74	1315
Williams, Charles F., Peru, Ind. Head-rest.	568,710	Sept. 29	3496	836	76	1990
Williams, Charles M., et al. (See Williams, John A., assignor.)						
Williams, Charles O., St. Louis, Mo. Ventilating system.	560,054	May 12	1296	291	75	941
Williams, Daniel, Wilbur, Wash. Poison-dropper.	568,150	Sept. 22	2501	{ 601 602 }	{ 76 }	1788
Williams, David S., and H. M. Hamrick, assignors to North American Electric Storage Company, Philadelphia, Pa. Electric battery.	554,043	Feb. 4	438	97	74	585
Williams, Edgar K., New York, N. Y. Mucilage-bottle.	558,543	Apr. 21	1818	442	75	378
Williams, Edward H., et al. (See McConnell, Jacob Y., assignor.)						
Williams, Edward L., Chicago, Ill. Bicycle-lamp.	554,044	Feb. 4	439	97	74	585
Williams, Edward L., Chicago, Ill. Bicycle-lamp.	560,879	May 26	2839	650	75	1291
Williams, Edwin C., assignor of one-fourth to S. Dunn, Clarksville, Tenn. Automatic circuit-closer.	572,923	Dec. 8	1462	351	77	1579
Williams, Francis C., Philadelphia, Pa. Street-sweeper.	557,297	Mar. 31	3244	{ 778 779 }	{ 74 }	1806
Williams, Francis F. (See Williams, Philip A., assignor.)						
Williams, Francis M. (See Taylor, John W., assignor.)						
Williams, Frank A., Holley, assignor of one-half to E. T. Lamb, Batavia, N. Y. Wire-fence machine.	560,666	May 26	2457	563	75	1217
Williams, Frank C., assignor of one-half to J. D. Seibert, Bellefonte, Pa. Flue-cleaner.	573,946	Dec. 29	3337	797	77	1977
Williams, Frank T., assignor to Edward Miller & Company, Meriden, Conn. Lamp-burner.	559,069	Apr. 28	2725	662	75	563
Williams, Frank T., assignor to Edward Miller & Company, Meriden, Conn. Lamp-burner.	571,631	Nov. 17	2127	511	77	1075
Williams, Frederick W., assignor of two-thirds to T. E. Clarke and J. Tonge, Minneapolis, Minn. Drill attachment.	561,036	May 26	3093	713	75	1339
Williams, George, San Francisco, Cal. Beer-drawing apparatus.	553,376	Jan. 21	1613	384	74	330
Williams, George, Royal Oak, Mich. Plant-protector.	563,532	July 7	502	117	76	95
Williams, George B., Texarkana, Tex. Automatic electric alarm.	552,603	Jan. 7	562	136	74	106
Williams, George B., La Crosse, Wis., assignor to Westinghouse Air Brake Company, Pittsburgh, Pa. Engineer's valve for fluid-pressure brakes.	559,243	Apr. 28	3096	747	75	633
Williams, George F., West Bay City, Mich. Vessel construction.	563,347	July 7	199	45	76	41
Williams, George H., Fort Smith, Ark. Electric track-circuit rail-joint.	568,550	Sept. 29	3393	812	76	1970
Williams, George H., Boston, Mass. Leaf-spring.	573,121	Dec. 15	1817	438	77	1663
Williams, George W., Bethany, Mo. Feed rack and trough.	557,839	Mar. 3	585	140	74	1236
Williams, George W., Adams, N. Y., assignor of one-half to H. Cowan, Boston, Mass. Sleigh.	554,328	Feb. 11	952	220	74	696
Williams, Griffith D., Peckville, Pa. Toe-weight.	560,117	May 12	1423	320	75	965
Williams, Gurdon H., Brooklyn, Ohio. Derrick or crane.	556,950	Mar. 24	2611	614	74	1667
Williams, Gurdon H., Cleveland, Ohio. Car-dumping apparatus.	557,742	Apr. 7	397	93	75	75
Williams, H. Clay. (See Schindel, Samuel M., assignor.)						
Williams, Harry M., Bloomington, Ill. Recorder.	567,017	Sept. 1	502	118	76	1377
Williams, Henry E., assignor of two-thirds to W. A. Willard and L. W. Ripley, Hartford, Conn. Portable power-skid.	573,630	Dec. 22	2784	659	77	1862
Williams, Henry E., and E. S. Caywood, Chicago, Ill. Mud-guard for bicycles.	552,567	Jan. 7	109	31	74	23

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Williams, Henry G., Pueblo, Colo. Method of and apparatus for extracting metals from their ores.	552,807	Jan. 7	581	141	74	109
Williams, Henry G., Pueblo, Colo. Mechanism for charging blast-furnaces.	554,562	Feb. 11	1337	313	74	770
Williams, Henry G., Pueblo, Colo. Separating dust from furnace-fumes.	554,563	Feb. 11	1339	313	74	770
Williams, Henry S., <i>et al.</i> (See Brown, Nathaniel H., assignor.)						
Williams, Horace G., St. Davids, Pa. Impact-tool.	554,849	Feb. 18	1846	435	74	884
Williams, Horace G., St. Davids, Pa. Impact-tool.	554,850	Feb. 18	1849	435 436	74	884
Williams, Horace G., Philadelphia, Pa. Air-compressor.	554,119	Mar. 10	1127	267	74	1357
Williams, Hubbard D. B., assignor of one-half to C. H. Snyder, Mansfield, Ohio. Musical instrument.	569,777	Oct. 20	1878	446	77	382
Williams, Hubbard D. B., assignor of three-fourths to A. Kallmerten and C. F. Grueninger, Mansfield, Ohio. Pump.	572,789	Dec. 8	1233	298	77	1531
Williams, Hubbard D. B., assignor of three-fourths to A. Kallmerten and C. F. Grueninger, Mansfield, Ohio. Double-acting submerged force-pump.	572,783	Dec. 8	1234	298	77	1531
Williams, Isaac M., <i>et al.</i> (See Angell, Albert, assignor.)						
Williams, James, assignor of one-half to B. Ratcliff, Richmond, Ind. Meat-tenderer.	558,462	Apr. 14	1682	404	75	335
Williams, James A., (See Kirker, Miller, and Williams.)						
Williams, James C., assignor to Jarecki Manufacturing Company, Limited, Erie, Pa. Double-ended pipe-nipple-threading machine.	553,144	Jan. 14	1190	289	74	239
Williams, James E., St. Louis, Mo., assignor to L. Williams, Athens, Wis. Seal.	552,566	Jan. 7	109	30	74	22
Williams, James G., Haverhill, Mass. Window-curtain.	553,375	Jan. 21	1612	384	74	329
Williams, James H. N., <i>et al.</i> (See Appleton, John, assignor.)						
Williams, James M., Pittsburg, Pa. Milk-can.	564,040	July 14	1409	327	76	276
Williams, James N., Mobile, Ala. Mucilage-receptacle.	552,245	Apr. 14	1303	318	75	263
Williams, Jane P., (See Wright, Arthur W., assignor.)						
Williams, John A., Brooklyn, N. Y. Vending-machine.	566,433	Aug. 25	2690	656	76	1177
Williams, John A., assignor of seven-eighths to T. F. and C. M. Williams, A. Wiesenborn, E. Oleson, and H. Asmussen, Helena, Mont. Bucksaw.	558,137	Apr. 14	1120	273	75	229
Williams, John G., and J. Prince, Birmingham, England; said Prince assignor to said Williams. Feed-water heater.	553,145	Jan. 14	1192	289	74	239
Williams, John H., Boston, Mass. Rail joint or coupling.	565,653	Aug. 11	1299	314	76	877
Williams, John K., (See Morrison, Joseph C., assignor.)						
Williams, John M., Pittsburg, Pa. Boiler-feed regulator and alarm.	559,555	May 5	353	85	75	751
Williams, John S., Krebs, Ind. Ter. Attachment for brooms.	570,358	Oct. 27	2929	696	77	592
Williams, John S., assignor of one-half to T. Milwee and C. Inns, Krebs, Ind. Ter. Car-coupling.	559,245	Apr. 28	3100	748	75	634
Williams, John T., Brooklyn, N. Y. Train-despatcher's chart-board.	565,150	Aug. 4	372	86	76	687
Williams, John T., Brooklyn, N. Y. Telephony.	569,807	Oct. 20	1923	457	77	390
Williams, Joseph, Sr., Sharpsburg, Pa. Reducing lead scum or litharge.	556,793	Mar. 24	2356		74	1619
Williams, Linton, (See Williams, James E., assignor.)						
Williams, Louis N. D., Ashbourne, assignor of one-half to R. W. Scott, Philadelphia, Pa. Automatic knitting-machine.	552,804	Jan. 7	565	137	74	107
Williams, Louis N. D., Ashbourne, assignor of one-half to R. W. Scott, Philadelphia, Pa. Needle-picking device for knitting-machines.	561,037	May 26	3095	714	75	1340
Williams, Louis N. D., Ashbourne, assignor of one-half to R. W. Scott, Philadelphia, Pa. Needle bar or cylinder for knitting-machines.	561,038	May 26	3097	714	75	1340
Williams, Louis N. D., Ashbourne, assignor of one-half to R. W. Scott, Philadelphia, Pa. Cam-ring for knitting-machines.	561,039	May 26	3098	714	75	1340
Williams, Louis N. D., Ashbourne, assignor of one-half to R. W. Scott, Philadelphia, Pa. Rib-knitting machine.	561,068	May 26	3139	725	75	1348
Williams, Louis N. D., Ashbourne, assignor of one-half to R. W. Scott, Philadelphia, Pa. Rib-knitting machine.	573,743	Dec. 22	2983	706	77	1897
Williams, Louis N. D., assignor of one-half to R. W. Scott, Philadelphia, Pa. Knitting-machine needle-cylinder.	552,805	Jan. 7	567	137	74	107
Williams, Louis, assignor of one-half to J. A. Owens, Rome, N. Y. Guard-gate for elevator-wells.	567,183	Sept. 8	792	187 138	76	1444
Williams, Louis N. D., Ashbourne, and H. Swinglehurst, Philadelphia, Pa. Automatic knitting-machine.	552,806	Jan. 7	569	139 140	74	108
Williams, Malcolm B., and G. J. Bremer, Kalamazoo, Mich.; said Bremer assignor to said Williams. Windmill.	559,473	May 5	217	48, 49	75	724
Williams, Martin R., (See Macy, Charles B., assignor.)						
Williams, Nathan G., Bellows Falls, Vt. Centrifugal machine.	565,196	Aug. 4	462	110	76	702
Williams, Nathan G., Bellows Falls, Vt. Centrifugal separator.	565,197	Aug. 4	463	111 436 437	76	702
Williams, Orion H., Chicago, Ill. Turnstile.	560,386	May 19	1916	436	75	1104
Williams, Percy G., Brooklyn, N. Y. Maze.	572,142	Dec. 1	87	19	77	1294
Williams, Philip A., assignor of one-half to F. F. Williams, Decatur, Ill. Trolley-wheel switch.	555,145	Feb. 25	2396	568	74	1000
Williams, R. P., Grant's Pass, assignor of one-half to J. P. Sheridan, Roseburg, Oreg. Combined automatic safety-brake and wheel-guard for street-cars.	554,762	Feb. 18	1703	400	74	855
Williams, R. Burks, (See Rylander, James B., assignor.)						
Williams, Robert B., Invercargill, New Zealand. Washboard.	568,392	Sept. 29	2903	699	76	1880
Williams, Robert S., Merchantville, N. J. Bicycle-tire.	572,463	Dec. 1	662	156	77	1404
Williams, Samuel F., San Diego, Cal. Bath-tub.	557,926	Apr. 7	709	171	75	134
Williams, Samuel H., Clearmont, Mo. Burglar-proof car.	554,162	Feb. 4	665	150	74	626
Williams, Selden F., Bowdoinham, Me. Dust-pan attachment.	565,059	Aug. 4	166	39	76	648
Williams, Stephen E., Lexington, N. C. Dish-cleaner.	565,317	Aug. 4	679	163	76	741
Williams, Sylvester M., San Francisco, Cal. Bicycle-frame.	567,430	Sept. 8	1235	297	76	1522
Williams, Thomas, Jr., London, England. Meat-cutter.	563,899	July 14	1160	272 273	76	232
Williams, Thomas F., <i>et al.</i> (See Williams, John A., assignor.)						
Williams, Thomas H., Doland, S. D. Potato-planter.	554,015	Feb. 4	388	85	74	574
Williams, Thomas H., Doland, S. D. Check-row potato-planter.	568,651	Sept. 29	3394	812 813	76	1970
Williams, Thomas H., Mount Carmel, Pa. Miner's safety-lamp.	570,780	Nov. 3	659	151	77	759
Williams, William E., Chicago, Ill. Feeding mechanism for paper-box and printing-press machinery.	552,947	Jan. 14	861	208 209 207	74	175
Williams, William E., Chicago, Ill. Machine for cutting and sticking match-splints.	555,987	Mar. 10	874	208 209	74	1314
Williams, William E., Chicago, Ill. Machine for punching match-sticks from plates.	562,687	June 23	2828	686 687	75	1961

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Williams, William E., Chicago, Ill. Machinery for manufacturing cell-cases	573,947	Dec. 29	3338	797 798 799 800 801 802	77	1978
Williams, William E. H., San Francisco, Cal. Gas-regulator	563,436	July 7	342	77	76	67
Williams, William F., Bishop, Cal. Shirt-sleeve, &c.	552,601	Jan. 7	167	46	74	33
Williams, William F., London, England. Bicycle and tricycle	559,244	Apr. 24	3098	748	75	633
Williams, William F., London, England. Dressing-bag.	573,742	Dec. 22	2982	706	77	1897
Williams, William G. (See Trucks, Benjamin H., assignor.)						
Williams, William H., assignor to U. S. Cycle Improvement Company, Pittsburg, Pa. Detachable crank	567,184	Sept. 8	793	187	76	1444
Williams, William M., assignor to G. E. Driver, Opelika, Ala. Automatic valve for service-pipes	570,833	Nov. 3	755	172	77	779
Williams, William T., Brooklyn, N. Y. Time-stamp	556,390	Mar. 17	1653	386	74	1470
Williams, William T., Brooklyn, N. Y. Mucilage-bottle	563,110	June 30	3626	869	75	2136
Williams, Willie E., Baltimore, Md. Automatic place-keeper for stenographers and typewriters	560,013	May 12	1217	272	75	926
Williamson, Catherine A., St. Louis, Mo. Corset	560,556	May 19	2205	504	75	1155
Williamson, Catherine A., St. Louis, Mo. Corset attachment	560,557	May 19	2206	504	75	1155
Williamson, Charles. (See Walsh and Williamson.)						
Williamson, D. F. (See Shepherd, Crutcher D., assignor.)						
Williamson, Daniel, assignor of two-thirds to J. Slaymaker and L. T. Rohrbach, Sunbury, Pa. Car-fender	564,266	July 21	1818	426	76	367
Williamson, David C., New York, N. Y. Tabulator for type-writing, type-setting, or analogous machines	559,921	May 12	1052	234	75	893
Williamson, Edgar D., Detroit, Mich. Tree-conveyer	556,605	Mar. 17	1937	477	74	1542
Williamson, Henry C., Michigan City, Ind. Brake-beam	565,060	Aug. 4	167	39	76	648
Williamson, Henry C., Michigan City, Ind. Car truck and brake	567,428	Sept. 8	1232	296	76	1521
Williamson, Henry C., Michigan City, Ind. Brake-shoe anchor	567,429	Sept. 8	1234	297	76	1521
Williamson, Henry C., Michigan City, Ind., and C. A. Schroyer, Chicago, Ill. Car-axle-box lid	566,047	Aug. 18	2007	487	76	1032
Williamson, James E., C. E. Collins, and J. B. Graham, Allegheny, Pa. Electric heater	556,524	Mar. 17	1914	445	74	1520
Williamson, John D., Jr., Philadelphia, Pa. Mechanism for operating valves of engines	567,671	Sept. 15	1636	395	76	1613
Willie, William T., Independence, Tex. Dish-cleaner	566,604	Mar. 17	2036	476	74	1542
Willie, William T., Independence, Tex. Wire-stretcher	560,956	May 26	2970	681	75	1316
Willie, William T., Independence, Tex. Wire-stretcher	566,261	Aug. 18	2357	578	76	1098
Willimantic Linen Company. (See Palmer, Maro V., assignor.)						
Willing, Thomas, Astoria, Oreg. Centrifugal cream separator and purifier	565,654	Aug. 11	1300	314	76	877
Willis, Allen E., Oxford, N. C. Automatic register for photograph-printing frames	553,479	Jan. 21	1775	423	74	360
Willis, Charles A. (See Reese and Willis.)						
Willis & Clements. (See Harris, Clayton S., assignor.)						
Willis, Edward J., Richmond, Va. Planimeter. (Reissue)	11,568	Sept. 22	2785	670	76	1842
Wilson, John, assignor to National Malleable Castings Company, Cleveland, Ohio. Car-coupling	561,843	June 9	1406	337	75	1659
Willits, Clarence L., Galva, Ill. Display-rack	562,265	June 16	2113	512	75	1812
Willits, Van Burton, assignor to Hay & Willits Manufacturing Company, Indianapolis, Ind. Bicycle	573,316	Dec. 15	2184	521	77	1799
Willmann, Joseph, Solms, Tex. Corn-busker	573,561	Dec. 22	2644	628	77	1832
Willment, George M., New York, N. Y. Adjustable washbasin-clamp	569,268	Oct. 13	949	227	77	197
Willms, Charles, Baltimore, Md. Electric battery	554,795	Feb. 18	1696	399	74	854
Willms, Charles, Baltimore, Md. Electric battery	554,760	Feb. 18	1698	399	74	854
Willms, Charles, Baltimore, Md. Electric battery and sealing battery-cells	554,761	Feb. 18	1700	399	74	855
Willms, Charles, Baltimore, Md. Battery-cell	572,285	Dec. 1	349	83	77	1346
Willmunder, Hermann, Philadelphia, Pa. Swivel-loom	570,359	Oct. 27	2931	696	77	592
Willoughby, George W., Rochester, N. H. Horseshoe	556,653	Mar. 17	2105	492	74	1555
Willows, Albert, Redlands, Cal. Ratchet-wrench	562,689	June 23	2830	687	75	1962
Wills, James A., Philadelphia, and L. E. Jordan, Wilksburg, assignors to Smead & Wills Warming and Ventilating Company, Philadelphia, Pa. Latrine	573,744	Dec. 22	2984	707	77	1898
Willie, Henry E., La Crosse, Wis., assignor, by mesne assignments, to Chicago Camera Company, Chicago, Ill. Magazine-camera	568,422	Sept. 29	2959	710	76	1889
Willson, Henry. (See Frazee, William A.)						
Willson, Henry, Chicago, Ill. Building-directory	560,878	May 26	2837	650	75	1291
Willson, John F., Kissimmee, Fla. Steam canning and cooking machine	560,336	May 19	1828	416	75	1087
Willson, Thomas L., et al. (See Schweitzer and Lungwitz, assignors.)						
Willson, Thomas L., New York, N. Y. Producing calcium compounds	563,527	July 7	495		76	94
Willson, Thomas L., Brooklyn, N. Y. Manufacturing hydrocarbon gas	563,528	July 7	496		76	94
Willson, Thomas L., New York, N. Y., assignor to Electro Gas Company, of West Virginia. Carbureting water-gas	553,443	Jan. 21	1715		74	349
Willson, Thomas L., New York, N. Y., assignor to Electro Gas Company, of West Virginia. Producing illuminating-gas	553,550	Jan. 28	1910		74	402
Willson, Thomas L., New York, N. Y., assignor to Electro Gas Company, of West Virginia. Making and consuming gas	555,198	Feb. 25	2490		74	1019
Willson, Thomas L., New York, N. Y., assignor to Electro Gas Company, of West Virginia. Consuming hydrocarbon gas	573,377	Dec. 15	2283		77	1748
Wimmerling, Henry G., Brooklyn, N. Y. Window-cleaning chair	561,844	June 9	1407	338	75	1659
Wilmot, Edwin, Laona, N. Y. Picture-hanger	559,015	Apr. 28	2635	641	75	546
Wilmot, Edwin, assignor of one-half to W. D. Leet, Laona, N. Y. Toy	563,533	July 7	503	117	76	96
Wilmore, Thomas. (See Williams and Wilmore.)						
Wilmot & Hobbs Manufacturing Company. (See Wilmot, Samuel R., assignor.)						
Wilmot, Samuel R., assignor to Wilmot & Hobbs Manufacturing Company, Bridgeport, Conn. Metal-tiling	566,489	Aug. 25	2813	685	76	1199
Wilshire, Henry G., Los Angeles, Cal., and M. C. Massie, Washington, D. C. Speeding device for race-tracks	572,080	Nov. 24	2955	695	77	1251
Wilson, Addison, Lowell, Mass. Woodworker's clamp	573,745	Dec. 22	2987	707	77	1898
Wilson, Albert W., Geneseo, Ill. Rope-grip	556,425	Mar. 17	1826	425	74	1504
Wilson, Alexander, and F. Stubbs, Sheffield, England. Apparatus for manufacturing armor-plates	572,590	Dec. 8	884	214	77	1465
Wilson, Allen N. (See Wilson, Jesse L., assignor.)						
Wilson, Alonzo T., and A. R., Houston, Tex. Rotary engine	570,889	Nov. 3	861	200	77	801
Wilson, Amasa H., Chicago, Ill. Watering-trough	567,672	Sept. 15	1639	396	76	1614
Wilson, Amos C., Butler, Pa. Derrick-frame	566,364	Aug. 25	2559	625	76	1151

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Wilson, Amos C., Butler, Pa. Pitman	566,365	Aug. 25	2560	626	76	1151
Wilson, Andrew, Newark, N. J. Coin-controlled vending-machine	552,602	Jan. 7	168	46, 47	74	33
Wilson, Andrew, assignor of two-thirds to F. Wilson and J. S. Clunie, Montreal, Canada. Bearing	569,733	Oct. 20	1794	426	77	367
Wilson, Anna R. (See Wilson, Alonzo T. and A. R.)						
Wilson, Brice. (See Bateman and Lyda, assignors.)						
Wilson, Charles. (See Finlay and Wilson.)						
Wilson, Charles F., Brooklyn, N. Y. Trolley-catcher	563,531	July 7	501	117	76	95
Wilson, Dalton K., Crystal, Iowa. Automatic gate	569,269	Oct. 13	950	{ 227 228 }	77	197
Wilson, David J., Washington, D. C. Adjustable book-support	562,749	June 23	2943	713	75	1964
Wilson, David J., Washington, D. C. Cash-recorder	567,431	Sept. 8	1236	{ 297 298 }	76	1522
Wilson, Edgar, Philadelphia, Pa. Automatic water-regulator for washing-machines	567,729	Sept. 15	1735	{ 415 416 }	76	1632
Wilson, Elmer E. (See Deplanty and Wilson.)						
Wilson, F. Cortez, Chicago, Ill. Lift force-pump	555,999	Mar. 10	878	210	74	1315
Wilson, F. Cortez, Chicago, Ill. Camp cooking outfit	555,980	Mar. 10	881	210	74	1315
Wilson, F. Cortez, Chicago, Ill. Tent-heater	568,393	Sept. 29	2904	699	76	1890
Wilson, Francis W., New York, N. Y. Car-window	555,750	Mar. 3	448	107	74	1210
Wilson, Francis W., New York, N. Y., assignor to W. H. Gould and I. F. Roe, Newark, N. J. Rail-fastening device	567,873	Sept. 15	1978	475	76	1680
Wilson, Frank, <i>et al.</i> (See Wilson, Andrew, assignor.)						
Wilson, Frederick G., Brooklyn, N. Y. Metal ball-bearing journal-box for shafts or axles	564,860	July 23	2832	676	76	569
Wilson, George M., and H. J. Neely, Wilbur, Wash. Cork-cabinet	570,113	Oct. 27	2454	583	77	504
Wilson, George T., assignor of one-half to A. C. Lichtwadt, Moline, Ill. Attachment for carriage-boots	555,991	Mar. 10	882	210	74	1315
Wilson, Gilbert H., New York, N. Y. Fore-and-aft sail	555,631	Mar. 3	253	58	74	1176
Wilson, Harry M., Baltimore, Md. Comb	562,112	June 30	3629	870	75	2137
Wilson, Henry M., Somerset, Mass., and H. Clementson, Brooklyn, N. Y. Machine for moldingspools	565,061	Aug. 4	168	39, 40	76	648
Wilson, Jackson B. (See Hanke, Cox, and Wilson.)						
Wilson, James, St. Louis, Mo. Heating-stove	555,353	Feb. 25	2759	646	74	1068
Wilson, James, assignor of one-half to C. A. Mullen, Jackson, Ohio. Lubricator	562,876	June 30	3193	772	75	2049
Wilson, James D., San Diego, Cal. Wrench	555,797	Mar. 3	515	125	74	1223
Wilson, James L., Mountain Peak, Tex. Gate-hinge	568,967	Oct. 6	431	96	77	83
Wilson, James T., New York, N. Y. Construction of buildings	563,529	July 7	497	116	76	95
Wilson, James T., New York, N. Y. Construction of buildings	563,530	July 7	499	116	76	95
Wilson, Jasper H., Rockwood, Tenn. Secondary electric clock	564,811	July 23	2750	{ 653 654 }	76	553
Wilson, Jerry P., administrator. (See Pelley, Frank L.)						
Wilson, Jesse L., assignor of one-half to A. N. Wilson, Baltimore, Md. Toy	560,607	May 19	2294	525	75	1172
Wilson, John C., Allegheny, Pa. Pump	564,674	July 28	2509	593	76	511
Wilson, John C., Allegheny, Pa. Washing machine	571,819	Nov. 24	2464	585	77	1158
Wilson, John H. (See Gibeault, Arthur, assignor.)						
Wilson, John M., Conway Springs, Kans. Wire stretcher and tightener	568,823	Oct. 6	188	45	77	38
Wilson, John R., Pittsburg, Pa. Dumping apparatus	565,399	Aug. 4	812	192	76	767
Wilson, John T., and G. W. Morris, Pittsburg, Pa. Car-bolster	553,377	Jan. 21	1615	365	74	330
Wilson, John W. (See Clawson, Charles H., assignor.)						
Wilson, Joseph S., <i>et al.</i> (See Chapman, George D., assignor.)						
Wilson, Joseph W., Salt Lake City, Utah. Dust-collector	568,968	Oct. 6	432	96	77	83
Wilson, Lewis O., assignor of one-half to G. O. Chilton, Charleston, W. Va. Lock	553,414	Jan. 21	1715	409	74	349
Wilson, Luther. (See Meyrick and Wilson.)						
Wilson, Mary L., <i>et al.</i> (See Demorest, Allen T., assignor.)						
Wilson, Michael H., <i>et al.</i> (See Bergh, Bror F., assignor.)						
Wilson, Michael H., Brooklyn, N. Y. Electrolytic apparatus	556,038	Mar. 10	974	233	74	1330
Wilson, Odell, St. Louis, Mo. Running-gear for vehicles	554,472	Feb. 11	1204	220	74	744
Wilson, Odell, St. Louis, Mo. Vehicle-spring	566,434	Aug. 25	2692	657	76	1177
Wilson, Patrick, Pittsburg, Pa. Non-refillable bottle	519,778	Oct. 20	1879	446	77	382
Wilson, Robert, Louisville, Ky. Electric elevator	571,502	Nov. 17	1908	456	77	1036
Wilson, Robert H. (See Sadler and Wilson.)						
Wilson, Robert J., Seattle, Wash. Automatic elevator-stop	559,879	May 12	974	217	75	880
Wilson, Robert M., Rome, N. Y. Range-boiler	573,746	Dec. 22	2988	707	77	1898
Wilson, Samuel J., Minnesota Lake, Minn. Folding umbrella	554,329	Feb. 11	953	220	74	696
Wilson, Samuel L., New York, N. Y. Releasing device for horses	565,062	Aug. 4	171	40	76	649
Wilson, Stephen E., French Landing, Mich. Process of and apparatus for treating garbage or other substances	567,210	Sept. 8	829	197	76	1450
Wilson, Thomas, assignor of one-half to T. D. Moran, Dillon, Mont. Wrench	565,318	Aug. 4	680	163	76	741
Wilson, Thomas A., Alton, Mo. Cake-pan	572,509	Dec. 1	733	175	77	1417
Wilson, Thomas B., Springfield, Mass., assignor to C. E. Billings, Hartford, Conn. Lock for bolt-guns	571,608	Nov. 17	2086	501	77	1067
Wilson, William C., assignor of one-half to F. Raymond, Brooklyn, N. Y. Damping and erasing device	564,238	July 21	1766	413	76	359
Wilson, William T., London, England. Sheet calendar	571,031	Nov. 10	1097	{ 256 257 }	77	871
Wilson, William V., Haskins, Ohio. Railway-crossing	557,927	Apr. 7	711	171	75	134
Wilson, William V., Haskins, Ohio. Railway-crossing	557,928	Apr. 7	712	172	75	134
Wiltfong, James D., Glenwood, Iowa, assignor of one-half to R. K. Ross, Mound City, Mo. Bedstead-brace and mattress-support	563,633	July 7	668	156	76	125
Wilton, James E., Minneapolis, Minn. Toy furniture	560,957	May 26	2971	682	75	1316
Wiltzie, Orris E. (See Wells and Wiltzie.)						
Winand, Paul A. N., Philadelphia, Pa. Starting gas or hydrocarbon engines	561,302	June 2	422	104	75	1452
Winand, Paul A. N., assignor to Schleicher, Schumm & Co., Philadelphia, Pa. Gas or oil engine	563,535	July 7	505	118	76	96
Winans, John C., <i>et al.</i> (See St. Mary, Joseph, assignor.)						
Winchester, Lucius W. (See Trevette, Wentworth G., assignor.)						
Winchester Repeating Arms Company. (See Bennett, Thomas G., assignor.)						
Winchester Repeating Arms Company. (See Gardner, John, assignor.)						
Winchester Repeating Arms Company. (See Johnson, Thomas C., assignor.)						
Winchester Repeating Arms Company. (See Mason, William, assignor.)						
Windisch, Charles F., Cincinnati, Ohio. Ruler	565,319	Aug. 4	681	163	76	742
Windle, John C., St. Louis, Mo. Ice-freezing can	572,234	Dec. 1	247	59	77	1325
Windle, Thomas H., Coatesville, Pa. Attaching tools to handles	568,652	Sept. 29	3398	813	76	1970
Windmiller, Samuel M., and L. Holford, Nebo, Ill. Gearing for washing-machines	568,824	Oct. 6	189	45	77	38

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Winfrey, E. M., <i>et al.</i> (See McCauley, John H., assignor.)						
Wing, Dwight R., assignor of one-half to K. Fleming, Little Rock, Ark. Combined car-step and platform-guard	564,675	July 28	2510	594	76	511
Wing, Francis J., Cleveland, Ohio. Drier	563,348	July 7	200	45	76	41
Wing, Theodore C., <i>et al.</i> (See Berg, Peter H., assignor.)						
Wingard, Edwin V., Kennett Square, Pa. Linekiln	566,106	Aug. 18	2117	516	76	1051
Wingate, Charles E., Lawrence, Mass. Street-car fender	559,047	Apr. 28	2690	655	75	556
Winget, Ira H., Stuart, Cal. Washboiler attachment	563,349	July 7	202	45	76	41
Winget, Joshua W., Huntington, W. Va. Cattle-guard	563,634	July 7	669	{ 156 157 }	76	126
Wingfield, John H. (See Vulté, Hermann T., assignor.)						
Winker, Frederick H., Fostoria, Ohio. Calendar	557,743	Apr. 7	399	94	75	75
Winkelmann, Herman R. (See Müller and Winkelmann.)						
Winkelmann, Herman R. (See Sattelkau and Winkelmann.)						
Winkelmeyer, John, Frankfort, Ind. Machine for cutting clay, &c.	559,556	May 5	356	86	75	752
Winkler, Charles, Palestine, Tex. Marking-tag	556,834	Mar. 24	2425	570	74	1633
Winkley, Erastus E., Lynn, Mass. Relasting-machine	562,110	June 16	1866	452	75	1765
Winkley, Erastus E., assignor of one-half to B. Phillips, Lynn, Mass. Sole-laying machine	553,948	Feb. 4	269	59	74	554
Winkley, Erastus E., assignor of one-half to B. Phillips, Lynn, Mass. Sole-laying machine	553,949	Feb. 4	271	60	74	555
Winkley, Erastus E., Lynn, assignor to Goodyear Shoe Machinery Company, Boston, Mass. Adjusting device for sole-leveling machines	555,547	Mar. 3	106	24	74	1150
Winkley, Erastus E., Lynn, assignor to Goodyear Shoe Machinery Company, Boston, Mass. Sole-laying machine	557,744	Apr. 7	401	94, 95	75	76
Winkley, Erastus E., Lynn, assignor to Goodyear Shoe Machinery Company, Boston, Mass. Jack for sole-machines	573,068	Dec. 15	1724	414	77	1645
Winkley, Erastus E., Lynn, assignor to Goodyear Shoe Machinery Company, Boston, Mass. Pressing-form for sole-laying machines	573,069	Dec. 15	1725	414	77	1646
Winkley, Erastus E., Lynn, Mass., assignor to Goodyear Shoe Machinery Company, Portland, Me. Sole-leveling machine	555,548	Mar. 3	108	24, 25	74	1150
Winkley, Erastus E., and B. Phillips, Lynn, assignors to Goodyear Shoe Machinery Company, Boston, Mass. Sole-leveling machine	558,888	Apr. 21	2410	587	75	487
Winkley, Frank D., Madison, Wis. Oil-cup	552,737	Jan. 7	428	108	74	82
Winn, Alby C., Haverhill, Mass. Carriage for rounding-out machines for boot or shoe soles	555,718	Mar. 3	395	92	74	1200
Winn, Alby C., Haverhill, Mass. Wheel for scouring or buffing	555,719	Mar. 3	396	92	74	1201
Winn, Alby C., Haverhill, Mass. Rounding-out machine for boot or shoe soles	564,169	July 14	1658	{ 387 388 }	76	324
Winn, Alby C., assignor of three-fourths to M. C. Cram & Co., M. Chase, and M. H. Foster, Haverhill, Mass. Rounding-out and channeling machine for boot or shoe soles	558,007	Apr. 7	889	{ 223 234 }	75	167
Winne, Frank N., Evanston, assignor to Crane Company, Chicago, Ill. Safety-valve	554,812	July 28	2752	654	76	553
Winner, Arthur H., Smith's Landing, N. J. Bicycle attachment	559,652	May 5	518	119	75	781
Winship, Jesse G., St. Louis, Mo. Folding bed	555,415	Feb. 25	2861	675	74	1088
Winship Machine Company. (See Garraux, Frederick, assignor.)						
Winslow, A., <i>et al.</i> (See Neild, Edwin, assignor.)						
Winslow, A., <i>et al.</i> (See Stansel, Thomas J., assignor.)						
Winslow Brothers Elevator Company. (See Smith, Humphrey R., assignor.)						
Winslow, Francis A. (See Winslow, William H. and F. A.)						
Winslow, Gorham N., Peabody, Mass. Trap-screen	568,185	Sept. 22	2556	615	76	1799
Winslow, Herbert L. (See Finson, Charles H., assignor.)						
Winslow, William H. and F. A., Chicago, Ill. Library-shelving	568,825	Oct. 6	190	46	77	38
Winslow, William H. and F. A., Chicago, Ill. Library-shelving	569,270	Oct. 13	952	228	77	197
Winspear, James H., Omaha, Nebr. Automatic signal pressure-head	572,495	Dec. 1	710	170	77	1413
Winston, Charley, assignor of one-half to E. F. Naegele, Memphis, Tenn. Spark-arrester for arc lamps	555,199	Feb. 25	2492	588	74	1019
Winston Cigarette Machine Company. (See Briggs, William C., assignor.)						
Winter, Carl. (See Warman and Winter.)						
Winter, George J. (See Reed, Adam, assignor.)						
Winter, Harry A., assignor to Sintz Gas Engine Company, Grand Rapids, Mich. Gas-engine	567,432	Sept. 8	1241	{ 298 299 }	76	1523
Winter, Harry A., assignor to Sintz Gas Engine Company, Grand Rapids, Mich. Gas-engine	569,530	Oct. 13	1396	{ 329 330 }	77	279
Winterflood, Joseph. (See Porcher and Winterflood.)						
Wintermute, Aquilla, <i>et al.</i> (See Hearnshaw, Frank J., assignor.)						
Wintermute, Edwin H., Jr., Newark, N. J. Bookkeeper's posting-guide	569,478	Oct. 13	1298	305	77	268
Wintorros, Claes E., assignor to John B. Stetson Company, Philadelphia, Pa. Hat beating and cleansing machine	562,057	June 16	1763	{ 427 428 }	75	1748
Winters, Augustus G. (See Madden, Albert F., assignor.)						
Winters, David L., Chicago, Ill., assignor of two-fifths R. F. Lytle and H. J. McClung, Pueblo, Colo. Car-brake	561,845	June 9	1408	338	75	1660
Winters, George T., Cameron, W. Va. Feed-trough	559,114	Apr. 23	2808	680	75	581
Winters, John W., deceased, (C. G. Brunson, administrator), assignor of five-eighths to M. O'Brien, M. L. and J. Gelina, A. J. Kos, D. H. Kent, and A. Johnson, St. Paul, Minn. Automatic safety angle-cock	571,735	Nov. 17	2315	553	77	1111
Winters, Thomas. (See Kaltenbeck, William H., assignor.)						
Winters, William E., White Lake, N. Y. Lock	553,090	Jan. 14	1104	268	74	221
Winton, Alexander, Cleveland, Ohio. Bicycle	553,378	Jan. 21	1617	385	74	330
Winzer, Julius E. (See Fürbringer, Johann, assignor.)						
Wire Glass Company. (See Shuman, Frank, assignor.)						
Wire Goods Company. (See Bement, William O., assignor.)						
Wire Goods Company. (See Dean, Albert H., assignor.)						
Wire Grip Fastening Company. (See Flint, John B., assignor.)						
Wire Grip Fastening Company. (See Robinson, Stillman W., assignor.)						
Wire, Henry, York, Pa. Hitching-post	566,832	Sept. 1	161	38	76	1313
Wirsching, Philipp, Salem, Ohio. Wind-chest for pipe-organs	560,559	May 19	2207	{ 504 505 210 }	75	1155
Wirt, Charles, assignor to American Electric Meter Company, Philadelphia, Pa. Electric meter	555,992	Mar. 10	883	{ 211 212 }	74	1315
Wirt, Charles, G. R. Green, and H. Burger, assignors, by means assignments, to American Electric Meter Company, Philadelphia, Pa. Electric meter	571,032	Nov. 10	1100	257	77	872
Wirt, Herbert C., Schenectady, N. Y., assignor to General Electric Company, of New York. Lamp-socket	559,474	May 5	219	49	75	725
Wirt, Herbert C., Schenectady, N. Y., assignor to General Electric Company, of New York. Incandescent-lamp socket	560,667	May 26	2459	563	75	1218
Wisdom, Philip, Evanston, Ill. Match-safe	554,763	Feb. 18	1704	400	74	855

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Wise, Francis G., Springfield, Mass. Ornamental-stripping tool	557,467	Mar. 31	3537	845	74	1863
Wise, George W. (See Withington, Charles B., assignor.)						
Wise, Robert, New York, N. Y. Nozzle	561,069	May 26	3142	725	75	1349
Wise, Robert, New York, N. Y. Hose-nozzle	564,239	July 21	1767	413	76	359
Wise, William, Yellow Creek, Ill. Gate	553,602	Jan. 28	2004	474	74	419
Wisel, Morris, <i>et al</i> (See Christ, Jacob, assignor.)						
Wiselogle, Frederick G., Indianapolis, Ind. Apparatus for reducing garbage for fertilizers.	554,206	Feb. 4	733	{ 166 167 }	74	639
Wiseman, Edmund, Luton, England. Straw-braid-sewing machine	565,585	Aug. 11	1175	{ 282 283 }	76	853
Wiseman, Frank L., Genoa, Nebr. Inhaler	567,558	Sept. 8	1435	345	76	1559
Wiseman, Samuel J., Southampton, England. Hanger for soap tablets	563,635	July 7	671	157	76	126
Wiskemann & Co. (See Schoene, Josef, assignor.)						
Wisner, William K., <i>et al</i> . (See De La Hunt, Reverdy C., assignor.)						
Wissel, Auguste, L. Girard, and J. Brunier, Neuville-sur-Saône, France. Ornamentation of velvet	556,794	Mar. 24	2357		74	1619
Wissler, Reuben P. (See Burke and Wissler.)						
Wiswall, Thomas L., and J. B. Frank, Denver, Colo. Recovering precious metals from solutions	555,483	Feb. 25	3004		74	1114
Wiswell, Jacob C., Medford, assignor to H. B. Wells, S. Eaton, Boston, W. P. Sargent, Melrose, H. G. Dillaway and H. B. Brown, Quincy, Mass. Machine for crushing and pulverizing ores	563,702	July 7	786	{ 187 188 }	76	147
Wiswell, Leon O., Nichols, N. Y. Stove-truck	554,386	Feb. 11	1042	242	74	713
Witham, George G., Lansing, assignor of one-half to T. P. Fenlon, Jr., Leavenworth, Kans. Wire-stretcher	563,900	July 14	1161	273	76	233
Withauer, W. B. (See Savage, John T., assignor.)						
Witherell, George E., assignor to Hartford Machine Screw Company, Hartford, Conn. Machine for making screws or the like	563,994	July 14	1329	310	76	262
Witherell, George E., assignor to Hartford Machine Screw Company, Hartford, Conn. Machine for shaving bolts and screws or other analogous articles	564,355	July 21	1960	{ 461 462 }	76	392
Witherell, Loren R., Sears, Ill., and M. L. Eldridge, Davenport, Iowa. Gate	564,676	July 28	2511	594	76	512
Witherow, James P., Pittsburg, Pa. Bosh-plate	572,143	Dec. 1	87	19	77	1294
Withers, A. M. (See Hanaban, James L., assignor.)						
Withers, Joseph S., Charlotte, N. C. Fountain-brush	565,950	Aug. 18	1843	448	76	999
Withers, Walter S., Atlanta, Ga. Foundry-flask	561,190	June 2	212	51	75	1408
Withington, Charles B., assignor of one-half to G. W. Wise, Janesville, Wis. Photographic camera	564,494	July 21	2191	{ 513 514 }	76	435
Witmer, Benjamin, Plattsville, assignor to Whaley, Royce & Co., Toronto, Canada. Mouth-piece for cornets, &c.	566,435	Aug. 25	2692	657	76	1177
Witmer, Henry C., Union Hill, N. J. Pulverizer and blower	561,744	June 9	1225	290	75	1627
Witmer, Henry E., Marietta, Pa. Hay-elevator jack	559,653	May 5	519	119	75	781
Witt, George C., Westwood, Ohio. Ash or garbage can	559,833	May 12	881	197	75	862
Witt, Julius F., Chicago, Ill. Lock	559,960	May 12	1116	{ 249 250 }	75	905
Witt, Martin, Neumünster, Germany. Vessel for removal of house refuse and cover for same.	552,948	Jan. 14	863	209	74	175
Witt, Ross E., Clarksville, Iowa. Corn-shocking machine	561,249	June 2	292	73, 74	75	1424
Witte, Jakob de. (See Janse and Witte.)						
Witte, Victor, London, England. Sewing-machine	569,441	Oct. 13	1242	293	77	251
Wittebolle, Emilé J., Camden, N. J. Metal-folding machine	562,877	June 30	3195	{ 772 773 }	75	2049
Witteborg, Ernest, Brenham, Tex. Combined trunk and dressing-case	566,262	Aug. 18	2358	578	76	1098
Wittebmann Brothers. (See Wittemann, Rudolph A., assignor.)						
Wittebmann, Jacob F., Fort Hamilton, N. Y. Finishing beer	554,851	Feb. 18	1852	436	74	885
Wittebmann, John, Milwaukee, Wis. Chopping-block	556,120	Mar. 10	1128	267	74	1358
Wittebmann, Rudolph A., assignor to Wittemann Brothers, New York, N. Y. Carrier for bottles	562,058	June 16	1768	428	75	1749
Witten, William S. (See Gray, Zimri D., assignor.)						
Witten, William S., South Omaha, Nebr. Feed-trough	557,466	Mar. 31	3536	845	74	1863
Witten, William S., South Omaha, Nebr. Feed-holding bin	564,495	July 21	2193	514	76	435
Wittkowsky, Carl, Berlin, Germany. Wooden vessel consisting of veneers	565,655	Aug. 11	1303	314	76	878
Wittmann, Rudolf, Brooklyn, N. Y. Opera-glass holder	558,889	Apr. 21	2412	587	75	487
Wittram, Frederick, San Francisco, Cal. Propeller	573,562	Dec. 22	2645	629	77	1833
Wittrock, Frederick W. (See Wittrock, Henry C., assignor.)						
Wittrock, Henry C., assignor of one-half to F. W. Wittrock, Falls City, Nebr. Cultivator attachment	553,324	Jan. 21	1523	{ 364 365 }	74	312
Witzgall, Henry, Pittsburg, Pa. Bracket for swinging stages	563,536	July 7	508	118	76	96
Wm. A. Stickney Cigar Company. (See Bente, Henry F., assignor.)						
Wm. Knabe & Co. Manufacturing Company. (See Byrne, William A., assignor.)						
Wm. Knabe & Co. Manufacturing Company. (See Smith, William T., assignor.)						
Woerber, Amos, Moline, Ill. Rake or broom	566,048	Aug. 18	2009	487	76	1032
Woehle, William, assignor of one-half to J. P. Ahrens, Cincinnati, Ohio. Billiard-cue-tip fastener	563,537	July 7	510	118	76	97
Woerner, Hermann. (See Evers and Woerner.)						
Wojan, Herrmann, Brooklyn, N. Y. Valve-gear	558,544	Apr. 21	1819	{ 442 443 }	75	378
Wojciechowski, Joseph, Kowno, Russia. Organ-reed	568,124	Sept. 22	2456	{ 589 590 }	76	1779
Wojton, Jan, Pullman, Ill. Window	559,557	May 5	359	86, 87	75	752
Wolcott, Henry J., and F. M. Beaman, assignors to Beaman Perfect Steel Fence Company, Albion, Mich. Metallic fence	562,323	June 16	2218	540	75	1832
Wolcott, Joshua J., Brooklyn, assignor to J. Smith and J. M. Edgar, New York, N. Y. Indicator lock	562,059	June 16	1770	428	75	1749
Wold, Olaus C., assignor to H. J. Thayer and C. H. Chandler, Chicago, Ill. Air-brush	555,669	Mar. 3	325	75	74	1188
Wolf, Albert H., West Dover, assignor of one-half to N. J. Baylan, Cleveland, Ohio. Apparatus for raising sunken vessels	569,442	Oct. 13	1245	293	77	252
Wolf, Alfred, New York, N. Y. Shirt-waist	558,331	Apr. 14	1444	355	75	291
Wolf, Augustus. (See Lough, William J., assignor.)						
Wolf, Bela, Mülheim, Germany. Gas or petroleum engine or motor	566,263	Aug. 18	2359	578	76	1098
Wolf, Carl H., Zwickau, Germany. Vegetable-parer	556,875	Mar. 24	2495	588	74	1646
Wolf, Charles K., Xenia, Ohio. Brace for intersecting wires	567,059	Sept. 1	572	134	76	1390
Wolf, Ernst, Zwickau, Germany, assignor to P. J. Oettinger, New York, N. Y. Petroleum-heater	560,014	May 12	1218	272	75	926
Wolf, George S., Detroit, Mich., and G. H. Pond, Ashburnham, Mass. Compound steam-engine	565,063	Aug. 4	172	40	76	649

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Wolf, Hermann P., assignor of one-half to W. R. Wolf, Burlington, Iowa. Measuring-machine	564,132	July 14	1579	{ 370 371	76	311
Wolf, Jacob, Newmansville, Pa. Portable fence	563,350	July 7	203	46	76	41
Wolf, Joseph, assignor of one-half to J. A. Robertson and A. Mutschler, Rochester, N. Y. Flash-light apparatus	571,632	Nov. 17	2128	511	77	1076
Wolf, Philip M. (See Knotts and Wolf.)						
Wolf, William R. (See Wolf, Hermann P., assignor.)						
Wolfe, Andrew C. (See Whitacre and Wolfe.)						
Wolfe, George W., assignor of one-half to N. Bedall, North Baltimore, Ohio. Vehicle-wheel bearing	566,706	Aug. 25	3141	768	76	1260
Wolfe, Marcus, and M. Devlin, St. Clair, Pa. Mining-drill	561,250	June 2	294	74	75	1425
Wolfe, Wilsie F., Newton, Mass. Heating and ventilating apparatus	571,423	Nov. 17	1761	420	77	1009
Wolfe, Wilsie F., Newton, Mass. Heating and ventilating apparatus	571,424	Nov. 17	1763	{ 420 421	77	1009
Wolfendale, Charles E., Allegheny, and G. W. Fritz, Pittsburg, Pa. Mining-machine	557,745	Apr. 7	408	95, 96	75	77
Wolff, Alfred J. (See Lines and Wolff)						
Wolff, Arthur J., Hartford, Conn. Wheel	556,121	Mar. 10	1129	267	74	1358
Wolff, Arthur J., Hartford, Conn. Vehicle-wheel	556,122	Mar. 10	1131	268	74	1358
Wolff, Arthur J., Hartford, Conn. Vehicle-wheel	556,123	Mar. 10	1133	268	74	1358
Wolff, Arthur J., Hartford, Conn. Vehicle-wheel	556,124	Mar. 10	1136	268	74	1359
Wolff, Arthur J., Hartford, Conn. Vehicle-wheel	556,125	Mar. 10	1139	268	74	1360
Wolff, Arthur J., Hartford, Conn. Bicycle or tricycle wheel	559,654	May 5	520	120	75	782
Wolff, Charles L. (See Kinkle and Wolff.)						
Wolff, Frank E. (See Wigell and Wolff.)						
Wolff, George A., L. W. Johnson, and J. F. Wallace, Winslow, Ariz. Ter. Cuspidor	564,463	July 21	2147	502	76	426
Wolff, Herrmann A., Sacramento, Cal. Mop	559,092	Apr. 28	2770	{ 670 671	75	572
Wolff, Herrmann A., Sacramento, Cal. Mop-wringer	559,093	Apr. 28	2772	671	75	573
Wolff, John F., assignor to L. Wolff Manufacturing Company, Chicago, Ill. Machine for manufacturing lead pipes	559,880	May 12	976	218	75	880
Wolff, John W., Winston, N. C. Water-gun	563,114	June 30	3631	870	75	2137
Wolford, Anna E., Lexington, Ohio. Adjustable quilting-frame	566,049	Aug. 18	2010	487	76	1033
Wolfrom, Frederick D. (See Huntley and Wolfrom.)						
Wolgemuth, James B., Pierre, and G. S. Engle, Aberdeen, S. D. Shirt-collar fastener and adjusting device	553,950	Feb. 4	274	60	74	555
Wolhaupter, Benjamin, Oak Park, Ill. Surface cattle-guard	553,882	Feb. 4	132	26	74	530
Wolhaupter, Benjamin, and W. S. Jones, Chicago, Ill. Power-brake for railway-cars	553,883	Feb. 4	134	26, 27	74	530
Wollenhaupt, Bruno E., New York, N. Y. Musical instrument	563,113	June 30	3630	870	75	2137
Wollenhaupt, Bruno E., New York, N. Y. Musical instrument	572,392	Dec. 1	557	131	77	1384
Wollerman, John C., Bicknell, Ind. Kitchen-cabinet	554,163	Feb. 4	668	{ 150 151	74	627
Wollin, John C., Williamsport, Pa. Circuit-closer for electrical alarm-circuits	573,943	Dec. 29	3348	803	77	1979
Wolter, Ferdinand, Gaylord, Minn. Type-writing machine	555,594	Mar. 3	183	43, 44	74	1163
Wolters, August W. H., assignor to Leroi Furniture Manufacturing Company, St. Louis, Mo. Table	560,456	May 19	2049	467	75	1127
Wolters, John A. G. O., Philadelphia, Pa. Car-fender	572,235	Dec. 1	248	59	77	1326
Woltersdorf, Louis, and G. S. Angus, Chicago, Ill. Composition of matter for building purposes	566,833	Sept. 1	162	.....	76	1313
Wolverine Manufacturing Company <i>et al.</i> (See Bertram, Henry W., assignor.)						
Womble, John P., Newport News, Va. Means for holding boxes in place	558,332	Apr. 14	1445	355	75	291
Wood, Albert A., Atlanta, Ga. Hydraulic motor	556,391	Mar. 17	1654	387	74	1471
Wood, Albert J., Wilder, Kans. Potato-cutter	552,808	Jan. 7	586	{ 141 142	74	110
Wood, Ben, assignor of one-half to S. A. Wood and O. Carver, Angola, Ind. Adjustable handle-bar for bicycles	567,433	Sept. 8	1242	299	76	1523
Wood, Benjamin, assignor of one-half to F. O. Penney, Richwood, Ohio. Table-leveler	563,241	June 30	3843	921	75	2176
Wood, Brown S., assignor to H. B. Wood, Johnston, R. I. Vehicle-wheel	558,890	Apr. 21	2413	588	75	487
Wood, David. (See Isley, William H., assignor.)						
Wood, Edgar J., assignor to M. A. Wood, Brooklyn, N. Y. Steam-boiler furnace	574,051	Dec. 29	3544	846	77	2015
Wood, Edwin A., Utica, N. Y. Heating-boiler	571,208	Nov. 10	1405	329	77	928
Wood, Edwin C., <i>et al.</i> (See Mitchell, James C., assignor.)						
Wood, Ellery W., Chicago, Ill. Fence-post	573,748	Dec. 22	2990	708	77	1899
Wood, Ellsworth E. (See Ayers, Frank W., assignor.)						
Wood, Frank A., <i>et al.</i> (See Gilmore, Benton, assignor.)						
Wood, Frank W., Port Chester, N. Y. Seal	568,011	Sept. 22	2225	537	76	1737
Wood, Frank W., Indianapolis, Ind. Manufacturing pneumatic tires	571,820	Nov. 24	2465	.....	77	1158
Wood, Frederick W. (See Aiken, Wood, and Campbell.) (Reissue.)						
Wood, George E., Southington, Conn. Wagon-wrench	558,246	Apr. 14	1304	318	75	264
Wood, Henry A. W., New York, N. Y., assignor to Campbell Printing Press and Manufacturing Company, of New York. Mechanical movement	559,016	Apr. 28	2636	642	75	546
Wood, Henry A. W., New York, N. Y., assignor to Campbell Printing Press and Manufacturing Company, of New York. Registering mechanism for printing-presses	560,881	May 26	2844	651	75	1292
Wood, Henry A. W., New York, N. Y., assignor to Campbell Printing Press and Manufacturing Company, of New York. Printing-press	569,310	Oct. 13	1029	245	77	212
Wood, Henry A. W., New York, N. Y., assignor to Campbell Printing Press and Manufacturing Company, of New York. Mechanical movement	570,586	Nov. 3	283	69, 70	77	691
Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-press	553,480	Jan. 21	1776	423	74	361
Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Multicolor-printing machine	560,880	May 26	2841	651	75	1292
Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Setting stereotype-matrices	560,882	May 26	2846	652	75	1293
Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Front-edge sheet-registering mechanism for printing-presses	567,730	Sept. 15	1737	416	76	1633
Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Mechanical movement	570,587	Nov. 3	286	70, 71	77	691
Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-machine	571,850	Nov. 24	2523	{ 597 598	77	1169
Wood, Henry M. (See Swartz and Wood)						
Wood, Henry S., and R. A. Perry, San Francisco, Cal. Dredging apparatus	557,178	Mar. 31	3011	719	74	1767
Wood, Herbert B. (See Wood, Brown S., assignor.)						
Wood, Horatio G., Newport, R. I. Non-fillable bottle	553,551	Jan. 28	1911	452	74	402
Wood, Horatio G., Newport, R. I. Panoramic camera	559,246	Apr. 28	3103	748	75	634
Wood, Hubert K., Hartford, Conn. Valve	566,108	Aug. 18	2120	516	76	1052

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Wood, James B., assignor of one-half to G. A. Ewing and C. M. Carter, Gate City, Va. Locomotive ash-pan	569,905	Oct. 20	2081	495	77	420
Wood, James C., Los Angeles, Cal. Bed-couch	559,834	May 12	821	197	75	862
Wood, James J., Fort Wayne, Ind. Field-magnet pole	571,181	Nov. 10	1363	318	77	920
Wood, Jeanie F., Hoboken, N. J. Button	571,425	Nov. 17	1764	421	77	1009
Wood, John E., Beverly, Mass. Wrench	573,070	Dec. 15	1727	414	77	1646
Wood, John W. (See Pittman, Moses S., assignor.)						
Wood, Joseph, assignor of one-half to L. Warden, Chicago, Ill. Bed-bottom or cot	571,821	Nov. 24	2466	586	77	1159
Wood, Joseph S., Sr., Brooklyn, N. Y. Non-refillable bottle	570,273	Oct. 27	2746	654	77	559.
Wood, Joseph W., Baraboo, Wis. Temporary binder	563,636	July 7	672	157	76	126
Wood, Lyman B., Ann Arbor, Mich. Gravity sprayer for field-crops	566,729	Aug. 25	3178	777	76	1267
Wood, Margaret A. (See Wood, Edgar J., assignor.)						
Wood, Moses L. U. S. Navy. Electric railway	553,799	Jan. 28	2325	{ 532 533 }	74	478
Wood, Patrick F. (See Babbitt, Wood, and Doud.)						
Wood, Samuel S., Elgin, Ill. Machine for cutting elliptical figures from sheet metal	556,393	Mar. 17	1658	387	74	1472
Wood, Sol A., et al. (See Wood, Ben, assignor.)						
Wood, Thomas E., assignor of one-half to C. D. Fuller, Kalamazoo, Mich. Combination display-cabinet	569,367	Oct. 13	1125	268	77	231
Wood, Thomas T., St. Joseph, Mich. Brick-machine	553,884	Feb. 4	137	27	74	531
Wood, Thomas T., St. Joseph, Mich. Brick-machine	553,885	Feb. 4	140	27, 28	74	532
Wood, Walter. (See Jefferies, Ebenezer A. W., assignor.)						
Wood, Walter W., Honesdale, Pa. Locking device for elevators and elevator-doors	553,379	Jan. 21	1618	385	74	331
Wood, William, Middlebury, Conn. Insulator	568,060	Sept. 22	2332	563	76	1755
Wood, William C., Brooklyn, N. Y. Railway-crossing	573,747	Dec. 22	2989	708	77	1899
Wood, William M., and J. C. Miller, Elmira, N. Y., assignors of one-third to C. F. Wright, Susquehanna, Pa. Cable-railway	557,320	Mar. 31	3285	{ 787 788 }	74	1814
Wood, William M., and J. C. Miller, assignors to Elmira Safety Appliance Company, Elmira, N. Y. Automatic motor-stop	561,846	June 9	1410	339	75	1660
Wood, William M., and J. C. Miller, assignors to Elmira Safety Appliance Company, Elmira, N. Y. Automatic motor-stop	561,847	June 9	1412	{ 339 340 }	75	1661
Woodall, James, Baltimore, Md. Window or skylight operator	561,848	June 9	1416	340	75	1663
Woodard, Albert P., assignor of one-half to A. H. Fox, Little Rock, Ark. Jug-holder	553,804	Jan. 28	2330	533	74	479
Woodard, Alvin N., Mansfield, Ohio. Nut and bolt lock	566,050	Aug. 18	2010	467	76	1033
Woodard, Alvin N., assignor of three-fourths to J. T. and J. L. Sawhill and A. Small, Mansfield, Ohio. Door-secuter	566,107	Aug. 18	2119	516	76	1051
Woodard, Alvin N., assignor of three-fourths to J. T. and J. L. Sawhill and A. Small, Mansfield, Ohio. Sash-fastener	572,591	Dec. 8	885	214	77	1466
Woodard, Charles S. (See Head, Volney J., assignor.)						
Woodard, William H., Cleveland, Ohio. Vapor-stove	554,207	Feb. 4	734	167	74	640
Woodbridge, Jonathan E., Duluth, Minn. Printing-telegraph	552,738	Jan. 7	429	108	74	82
Woodbury, Charles B., Washington, D. C. Bicycle-lock	569,594	Oct. 13	1529	359	77	304
Woodbury, Charles H., Franklin, Mass. Clutch for card-feeding machines	555,840	Mar. 3	586	140	74	1237
Woodbury, Charles H., Franklin, Mass. Clutch for card-feeding machines	571,963	Nov. 24	2728	645	77	1209
Woodbury Manufacturing Company. (See Graessle, Charles, assignor.)						
Woodbury, Rufus H. (See Bailey and Burns, assignors.)						
Woodcock, Thomas J., Philadelphia, Pa. Hammock	563,532	July 7	511	118	76	97
Woodcock, William H., London, England. Roller-bearing	557,048	Mar. 24	2782	661	74	1700
Woodhouse, Frank L., Waupun, Wis. Tire for bicycles	574,015	Dec. 29	3477	831	77	2002
Woodhull, Bradley, assignor to Scranton Stove Works, Scranton, Pa. Stove and grate	564,677	July 28	2512	594	76	512
Woodin, Arthur J., Park Rapids, Minn. Door-opener	555,993	Mar. 10	887	212	74	1316
Woodlan, Samuel W., assignor of one-half to R. C. Patterson, Smithville, Canada. Disk harrow	564,133	July 14	1581	371	76	312
Woodman, Alvin, Lisbon, assignor of one-half to F. L. Leavitt, Griswold, Conn. Warp-sizing machine	557,468	Mar. 31	3538	816	74	1863
Woodman, George F., assignor of one-half to J. F. Carens, Newburyport, Mass. Steering apparatus for ships	554,045	Feb. 4	441	97	74	585
Woodman, George F., assignor of one-half to J. F. Carens, Newburyport, Mass. Bicycle-lantern bracket	552,669	Apr. 21	2038	491	75	416
Woodman, John J., assignor to E. W. Ross Company, Springfield, Ohio. Corn-husking machine	573,500	Dec. 22	2541	602	77	1212
Woodring, Isaac. (See Campbell and Woodring.)						
Woodring, William F., Bethlehem, Pa. Weather-strip	568,061	Sept. 22	2333	563	76	1755
Woodruff, Edmund W., Washington, D. C. Bill-file	569,700	Oct. 20	1727	{ 411 412 }	77	356
Woodruff, Frank, Rochester, Pa. Method of and apparatus for cutting off glass articles	566,436	Aug. 25	2693	657	76	1178
Woodruff, George B., and T. W. R. McCabe, assignors to William L. Gilbert Clock Company, Winsted, Conn. Clock-regulator	559,070	Apr. 28	2726	662	75	563
Woodruff, George B., and T. W. R. McCabe, Winsted, assignors to Hartford Machine Screw Company, Hartford, Conn. Speed-changing mechanism	560,958	May 26	2972	682	75	1316
Woodruff, John L., et al. (See Houghton, Charles L., assignor.)						
Woodruff, John W., Wise, W. Va. Grain-separator	562,750	June 23	2944	{ 713 714 }	75	1924
Woodruff, John W., Wise, W. Va. Non-refillable bottle	573,949	Dec. 29	3350	803	77	1920
Woodruff, Mina, assignor of one-half to A. M. Delavan, Los Angeles, Cal. Corset	561,464	June 2	718	176	75	1505
Woodruff, William F., Rockford, Ill. Base for furniture	561,745	June 9	1326	{ 290 291 }	75	1627
Woods, Clinton E., assignor to American Electric Vehicle Company, Chicago, Ill. Brush-holder for dynamo-electric machines	566,366	Aug. 25	2561	626	76	1151
Woods, Edward D., assignor of one-half to J. H. Whipple, Manchester, Vt. Shipper's tool	566,955	Sept. 1	374	87	76	1354
Woods, Edward K. (See Dimmick and Woods.)						
Woods, Frank J., Chicago, Ill. Vehicle-wheel	565,198	Aug. 4	464	111	76	702
Woods, Frank J., Chicago, Ill. Ore-concentrator	570,243	Oct. 27	2689	639	77	548
Woods, Frank J., Chicago, Ill. Gearing	570,974	Nov. 10	998	231	77	852
Woods, George E., assignor to A. C. Humphreys and A. G. Glasgow, New York, N. Y. Safety device for gas-producers	570,149	Oct. 27	2516	597	77	515
Woods, Granville T., assignor, by mesne assignments, to S. E. Riley, New York, N. Y. System of electrical distribution	569,443	Oct. 13	1246	293	77	252
Woods, Isaiah W., Harrisville, W. Va. Fluid-pressure regulator	572,464	Dec. 1	663	156	77	1405
Woods, John C. (See Mameaux and Kelly, assignors.)						
Woods, William J., Minneapolis, Minn. Dough-kneader	567,777	Sept. 15	1812	435	76	1647
Woods, William L., and J. E. Ruebsam, Washington, D. C. Brick or building-block	563,351	July 7	204	46	76	42
Woodside, Charles L. (See George and Woodside.)						
Woodside Manufacturing Company. (See Dawson, John H., assignor.)						
Woodward, Abner, Shelburne Falls, Mass. Child's carriage	564,678	July 28	2514	595	76	512

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Woodward, Alonzo S., assignor to H. A. Parker, Pepperell, Mass. Apparatus for reducing asbestos fiber	553,091	Jan. 14	1105	268	74	222
Woodward, Beaumoris, Chislehurst, England. Varying speed-gear for velocipedes	568,394	Sept. 29	2905	699	76	1880
Woodward, Clarence L. (See Fennell and Woodward.)						
Woodward, Erastus, assignor to J. Barrett, Somerville, Mass. Tacking-machine	555,595	Mar. 3	190	44	74	1165
Woodward, Erastus, Somerville, Mass., assignor to Woodward Manufacturing Company, Saco, Me. Machine for loading heels with nails	562,944	June 30	3317	799 800	75	2076
Woodward, Erastus, Somerville, Mass., assignor to Woodward Manufacturing Company, Saco, Me. Machine for loading heels with nails	570,654	Nov. 3	436	104 105	77	719
Woodward, Henry, Toronto, Canada. Electrode for secondary batteries	571,143	Nov. 10	1309	304	77	909
Woodward, John W., South Royalton, Vt. Blind-holder	569,479	Oct. 13	1299	306	77	262
Woodward, Joseph L., West Louisville, Ky. Fence	561,849	June 9	1416	340	75	1662
Woodward Manufacturing Company. (See Woodward, Erastus, assignor.)						
Woodward, Reuben D., and W. C. Brown, Leadville, Colo. Concentrator	566,834	Sept. 1	162	38	76	1313
Woodward, Robert G., Alameda, Cal. Car-brake	569,311	Oct. 13	1031	245	77	213
Woodward, Robert G., Alameda, Cal. Car-brake	569,312	Oct. 13	1033	245	77	213
Woodward, Russel G., Waukegan, assignor to Union Special Sewing Machine Company, Chicago, Ill. Sewing-machine	566,707	Aug. 25	3143	768	76	1260
Woodward, Stephen, Manchester, assignor to W. M. Woodward, Franklin, N. H. Knitting-machine needle	567,931	Sept. 15	2065	495	76	1696
Woodward, Walter M. (See Woodward, Stephen, assignor.)						
Woodward, Warner C., Scranton, Pa. Lifting-jack	573,950	Dec. 29	3350	803	77	1980
Woodward, William C. (See Downes, Louis W., assignor.)						
Woodworth, Albert L., Norfolk, Va. Current-actuated bell-buoy	556,234	Mar. 10	1338	314 315	74	1396
Woodworth, Charles H., Chicago, Ill., assignor of one-half to C. F. Davis, El Paso, Tex. Check-punch	556,392	Mar. 17	1656	387	74	1471
Woodworth, Charles H., Chicago, Ill., assignor of one-half to C. F. Davis, El Paso, Tex. Journal-bearing	572,236	Dec. 1	249	60	77	1326
Woodworth, George W. (See Domleo and Woodworth.)						
Woodworth, Harry D., Kalamazoo, Mich. Sign-board	559,247	Apr. 28	3104	749	75	634
Woodworth, John A., Chicago, Ill. Vehicle-rim	563,901	July 14	1162	273	76	233
Woodworth, John A., Windsor, Canada. Bottle-stopper	567,874	Sept. 15	1979	475	76	1680
Woolfolk, Richard S., Powersville, Ga. Fence or arbor post	552,568	Jan. 7	110	31	74	23
Woolfolk, Sallie M., and N. U. Ney, Orange, Va. Abdominal supporter	572,465	Dec. 1	665	157	77	1405
Woolley, Claude L., Baltimore, Md. Electric-generator attachment for dental engines	563,995	July 14	1331	310	76	263
Woolley, George, Goulburn, New South Wales. Adjustable support or rest for bicycles	573,378	Dec. 15	2284	544	77	1748
Woolley, Leonidas G., Grand Rapids, Mich. Thermostat	563,831	July 14	1014	241	76	205
Woolsey, Lorenzo J., Egypt, N. Y. Wire-fence stay	559,248	Apr. 28	3105	749	75	635
Woolsey, Lorenzo J., Egypt, N. Y. Wire-fence stay	561,850	June 9	1417	340	75	1662
Woonsocket Machine and Press Company. (See Lafleur, Oliver E., assignor.)						
Wooster, Frederick J., assignor to Waterbury Brass Company, Waterbury, Conn. Power-driven tool for dressing bars and ingots	570,079	Oct. 27	2395	567 514 515	77	492
Wooster, Gaylord C., Rulo, Nebr. Scale-beam	564,496	July 21	2195	515	76	435
Wooten, James W., et al. (See Cullens, John T., assignor.)						
Wooten, Theophilus P., Bryan, Tex. Staple-puller and wire-tightener	561,463	June 2	717	176	75	1505
Wotton, Robert, and L. W. Gould, Birmingham, England. Apparatus for removing mandrels from metal tubes	562,778	June 23	2993	724	75	1994
Worcester, Edgar E., East Bridgewater, Mass., assignor to Consolidated Hand Method Lasting Machine Company, Nashua, N. H. Lasting-machine	560,767	May 26	2629	604	75	1251
Worcester Envelope Company. (See Low, Everett M., assignor.)						
Worden, Will J., assignor to W. & W. Manufacturing Company, Detroit, Mich. Hat or cap	573,192	Dec. 15	1948	469	77	1687
Work, Joseph A., Springfield, Ohio. Handle-holding gage	558,333	Apr. 14	1446	356	75	291
Work, Robbert G., Marion Center, Pa. Post-driver	567,060	Sept. 1	573	134	76	1390
World Flash Company. (See Yetman, Charles E., assignor.)						
Worm, Oscar R. W. (See Matzinger, John, assignor.)						
Wormer, Isabelle, Chicago, Ill. Dress-shield	567,285	Sept. 8	977	232	76	1476
Wormwood, Daniel W. (See Sawyer and Colcord, assignors.)						
Wornstaff, George F., Fort Scott, Kans. Combined flour-bin and dough-board	555,549	Mar. 3	113	25	74	1151
Worrall, Clarence A., assignor of one-half to P. C. Dougherty, Philadelphia, Pa. Puzzle	558,009	Apr. 7	891	224	75	167
Worrall, Clarence A., assignor of one-half to P. C. Dougherty, Philadelphia, Pa. Fastening for pins	572,144	Dec. 1	89	19	77	1295
Worrall, Clarence A., assignor of one-half to P. C. Dougherty, Philadelphia, Pa. Razor-strop	572,145	Dec. 1	89	20	77	1295
Worrall, Thomas H., and A. Lesperance, Laconia, N. H.; said Lesperance assignor to said Worrall. Friction-clutch	559,558	May 5	361	87	75	753
Worsdell, Jonathan, Brooklyn, N. Y., assignor of one-half to W. A. Mooney, Columbus, Ind. Leather-finishing machine	561,465	June 2	720	177 178	75	1505
Worsey, Henry B., Birmingham, England. Latch	555,354	Feb. 25	2761	646 647	74	1069
Worswick, James E., Americus, Ga. Car-wheel brake-shoe and dresser. (Reissue)	11,527	Mar. 31	3658	876	74	1885
Worth, Elvin P. (See Preble and Worth.)						
Worth, James M., Chicago, Ill. Gas-engine	559,017	Apr. 28	2638	642 643	75	547
Worth, James M., Chicago, Ill. Reversing valve-gear	559,018	Apr. 28	2639	643	75	547
Worthen, Edward A., Burlington, Vt. Sash holder and fastener	564,813	July 28	2753	654	76	553
Worthen, Julius E., assignor to L. L. Tower, Boston, Mass. Circumferential dividers	559,559	May 5	362	88	75	753
Worthington, Charles C., Irvington, N. Y. Pump valve-pot	561,746	June 9	1229	291	75	1628
Worthington, Charles C., Irvington, N. Y. Steam dash-valve	561,747	June 9	1232	292	75	1629
Worthington, Henry R. (See Alberger, Louis R., assignor.)						
Worz, Gustav A., assignor to Milford Manufacturing Company, Milford, Ohio. Carpet-sweeper	571,549	Nov. 17	1990	473	77	1050
Woschyllo, Michail, assignor to N. Sapozhnikova, St. Petersburg, Russia. Machine for making nets	560,560	May 19	2210	505	75	1155
Woychinske, Frank W., A. Paponschek, and L. Lennig, New York, N. Y. Sash-lock	564,814	July 28	2754	654	76	554
Wright, Alexander, Wilmington, Del. Door-check	568,554	Sept. 29	3204	772	76	1933
Wright, Alexander H., Stratford, Canada. Filter	559,249	Apr. 28	3106	749 750	75	635
Wright, Allen J., Cleveland, Ohio. Safety water-column for steam-boilers	572,592	Dec. 8	886	215	77	1466
Wright, Arthur C., Worcester, Mass. Magazine-pistol	566,367	Aug. 25	2562	626	76	1152
Wright, Arthur W., assignor of one-thirtieth to J. P. Williams, Detroit, Mich. Car-axle lubricator	569,480	Oct. 13	1300	306	77	262
Wright, Charles A., San Francisco, Cal. Bicycle-cleaning stand	556,076	Mar. 10	1053	251	74	1344

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Wright, Charles F. (See Wood and Miller, assignors.)						
Wright, Charles L. (See Kelsey, Frank N., assignor.)						
Wright, Clarence H., Chicago, Ill. Fare indicator and recorder	559,922	May 12	1055	235	75	894
Wright & Colton Wire Cloth Company. (See Barlow, Arthur E., assignor.)						
Wright, Edward, Worcester, Mass. Pipe-wrench	562,878	June 30	3197	773	75	2050
Wright, Edwin. (See Harnsberger and Wright.)						
Wright, Elisha P. S. (See Balph and Wright.)						
Wright, Elmer H., assignor of one-third to J. J. Heckman, C. C. Carnahan, and A. H. Graves, Chicago, Ill. Multiple contact-switch	558,750	Apr. 21	2170	522 523	75	441
Wright, Eugene H., Lowell, and J. H. Carmichael, Lawrence, Mass.; said Carmichael assignor to said Wright. Nail-setting machine	564,815	July 28	2755	655 656	76	554
Wright, Frank, London, England. Coin-freed fluid-meter apparatus	557,929	Apr. 7	713	172	75	134
Wright, Frank, London, England. Dry gas-meter	572,924	Dec. 8	1466	352	77	1579
Wright, Frank L., and E. N. Kelsey, Winfield, Kans. Clothes-line reel	565,064	Aug. 4	173	41	76	649
Wright, Frederick K., assignor to Steam Gauge and Lantern Company, Syracuse, N. Y. Lantern-frame	570,589	Nov. 3	292	71	77	692
Wright, Frederick K., assignor to Steam Gauge and Lantern Company, Syracuse, and R. E. Dietz Company, New York, N. Y. Tubular lantern	570,588	Nov. 3	290	72	77	692
Wright, Garret S. (See Fox, George, 2d, assignor.)						
Wright, George F., Worcester, Mass. Wire-netting machine	561,303	June 2	424	105	75	1452
Wright, George S., and H. P. Terry, Brooklyn, N. Y. Speed-measure	557,245	Mar. 31	3160	758	74	1791
Wright, George W., assignor to Chicago Regulator Company, Chicago, Ill. Pump-regulator	559,560	May 5	363	88	75	753
Wright, Granville W., assignor to Sargent & Company, New Haven, Conn. Liquid door-check	559,156	Apr. 28	2922	706	75	600
Wright, Isaac D., assignor to McClure Manufacturing Company, Sedalia, Mo. Buckle	567,061	Sept. 1	574	134	76	1390
Wright, Jacob P. (See Beecher and Wright.)						
Wright, John, Richmond, Va. Apparatus for treating tobacco	569,313	Oct. 13	1035	246	77	214
Wright, John E., and T. L. Curley, Hamilton, Ohio. Cushion for back-frames of carriage-seats	561,748	June 9	1234	292	75	1630
Wright, John E., and T. L. Curley, Hamilton, Ohio. Carriage-apron	561,749	June 9	1236	292	75	1630
Wright, L. P., et al. (See Rose, Preston B., assignor.)						
Wright, Lewis B., Springfield, Mass. Sign or other object	566,553	Aug. 25	2909	710	76	1218
Wright, Lucile C., St. Louis, Mo. Corset	573,951	Dec. 29	3351	803	77	1980
Wright, Mary E. (See Wright, William, assignor.)						
Wright, N. S., et al. (See Mummary, Edwin G., assignor.)						
Wright, Peter K. (See Galt and Rankin, assignors.)						
Wright, Ransom C., assignor, by mesne assignments, to Elevator Safety Controller Company, Philadelphia, Pa. Automatic elevator-car lock	566,109	Aug. 18	2122	516 517	76	1052
Wright, Robert S. (See Hopkins, James R., assignor.)						
Wright, Rufus, et al. (See Adams, Henry W., Jr., assignor.)						
Wright, Rufus, et al. (See Faulkner, Hugh, assignor.)						
Wright, Rufus, et al. (See Parker, John E., assignor.)						
Wright, Rufus, Chicago, Ill. Pneumatic door-check	560,668	May 26	2460	564	75	1218
Wright, Samson D., and J. W. Hornsey, assignors to Ball-Bearing Car Wheel and Manufacturing Company, Cleveland, Ohio. Brick-drying car	566,490	Aug. 25	2814	686	76	1199
Wright, Sylvanus D., New York, N. Y. Car-fender	557,930	Apr. 7	714	172	75	135
Wright, Sylvanus D., New York, N. Y. Car-fender	560,959	May 26	2973	682	75	1317
Wright, Thomas, Emaus, Pa. Detachable handle for pans	571,851	Nov. 24	2527	598	77	1170
Wright, Thomas W., and L. D. Preston, assignors of one-half to T. B. Moore, G. S. and H. Gallagher, Rochester, N. Y. Photographic-film holder	558,138	Apr. 14	1121	273	75	229
Wright, William, assignor to M. E. Wright, Newburg, N. Y. Steam-engine	564,547	July 21	2278	534 535	76	449
Wright, William, assignor to M. E. Wright, Newburg, N. Y. Steam-boiler	569,314	Oct. 13	1037	246 247	77	214
Wright, William E. (See Angell, Augustus, assignor.)						
Wright, William H., Buffalo, N. Y. Continuous tramway-rail	563,242	June 30	3844	921	75	2177
Wright, William H., assignor to E. Ingraham Company, Bristol, Conn. Musical clock	566,956	Sept. 1	376	87	76	1354
Wright, William J., Beacon, Pa. Folding bed-curtain	556,235	Mar. 10	1340	315	74	1396
Wright's Gas Meter Syndicate. (See Simmance, John F., assignor.)						
Wrightson, Arthur, Philadelphia, Pa. Automatic circular-knitting machine	569,701	Oct. 20	1731	412 413 414	77	357
Wrightson, Arthur, Philadelphia, Pa. Machine for knitting seamless fleece-lined hose	569,702	Oct. 20	1745	414 415	77	358
Wrigley, John, Elmira, N. Y. Cleaning device for water-closets, sinks, sewers, and the like	566,110	Aug. 18	2124	517	76	1053
Wronski, André, assignor of one-third to J. J. de Kinder, Philadelphia, Pa. Metallurgical furnace and process	572,393	Dec. 1	558	132 133	77	1384
Wrought Iron Bridge Company. (See Ross, William, assignor.)						
Wrought Iron Specialty Company. (See Lilley, Henry, assignor.)						
Wuelfing, Reinhard, Detroit, Mich. Core for paper-rolls	566,368	Aug. 25	2565	627	76	1152
Wuestner, Edmund, Jersey City, N. J., assignor to Wuestner's New Eagle Dry Plate Works, of New Jersey. Non-halation plate	566,111	Aug. 18	2125	517	76	1053
Wuestner's New Eagle Dry Plate Works. (See Wuestner, Edmund, assignor.)						
Wunch, Edward W. (See Doyle, James P., assignor.)						
Wunderle, Philip, Providence, R. I. Cable-clip	560,828	May 26	2729	626	75	1271
Wunderlich, Genaro. (See Mauerman and Wunderlich.)						
Wurster, Charles F., assignor to J. I. Barnhurst, Philadelphia, Pa. Machine for forming connections for umbrella-ribs	553,603	Jan. 28	2005	475	74	419
Wurster, Charles F., assignor to J. I. Barnhurst, Philadelphia, Pa. Machine for making tip-caps for umbrella-ribs	553,604	Jan. 28	2008	476	74	419
Wurts, Alexander J., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Back connection for switchboards	564,679	July 28	2515	595	76	513
Wurts, Alexander J., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Circuit-breaker	570,212	Oct. 27	2629	623	77	536
Wurts, Alexander J., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Circuit-breaker	570,415	Oct. 27	3037	720	77	611
Wurts, Alexander J., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Circuit-interrupting device	570,416	Oct. 27	3039	720	77	612
Wurts, Alexander J., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Automatic circuit-breaker	570,417	Oct. 27	3040	720 721	77	612
Wurts, Alexander J., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Switch for electric circuits	570,418	Oct. 27	3044	721 722	77	613

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Wurts, Alexander J., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Circuit-breaker	570,419	Oct. 27	3047	722	77	614
Wurts, Alexander J., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Lightning-arrester	571,103	Nov. 10	1240	288	77	896
Wurtz, George B., Shreveport, La. Sheet-feeder	573,952	Dec. 29	3352	804	77	1980
Wüst, Hans, Nuremberg, Germany. Cushion	556,606	Mar. 17	2038	477	74	1542
Wüste, Floris, <i>et al.</i> (See Ellermann, Friedrich W., assignor.)						
Wutke, Paul A. (See Linde and Wutke.)						
Wyant, Christopher M., assignor of one-half to J. M. Boggemann, East St. Louis, Ill. Earth-anger	554,968	Feb. 18	2056	488	74	922
Wyant, Frank M. (See Pfouts, Leroy S., assignor.)						
Wyatt, Bascom L., Atlanta, Ga. Attachment for plows	564,170	July 14	1660	388	76	325
Wyatt, Charles S. (See Pullins and Wyatt.)						
Wyatt, Francis. (See King and Wyatt.)						
Wyatt, Mary J., Raleigh, N. C. Smoke and cinder conveyer	564,298	July 21	1867	437 438	76	375
Wyborny, Bradick, Manly, Iowa. Tire-tightener	555,994	Mar. 10	888	212	74	1317
Wyburn, Alonzo B., Onset, Mass. Boot-blackening appliance	566,264	Aug. 18	2360	578	76	1099
Wyckoff, Cornelius E., Brooklyn, N. Y. Valve-stopper and measuring device	557,931	Apr. 7	716	173	75	135
Wyckoff, Hiram E., Silver Creek, N. Y. Portable steam and shower bath house	569,808	Oct. 20	1924	457	77	390
Wyckoff, Seamans & Benedict. (See Barron, Walter J., assignor.)						
Wyckoff, Seamans & Benedict. (See Brooks, Byron A., assignor.)						
Wyckoff, Seamans & Benedict. (See Jenne, William K., assignor.)						
Wyckoff, Seamans & Benedict. (See Rhodes, John S., assignor.)						
Wyckoff, Seamans & Benedict. (See Seamans, Clarence W., assignor.)						
Wyckoff, Seamans & Benedict. (See Shepard, Charles H., assignor.)						
Wyckoff, Seamans & Benedict. (See Sholes, Christopher L., assignor.)						
Wyckoff, Seamans & Benedict. (See Webb, George B., assignor.)						
Wydman, August, deceased; H. E. Wydman, Rockford, Ill., administratrix. Harp	562,447	June 23	2426	588	75	1887
Wydman, Hannah E., administratrix. (See Wydman, August.)						
Wyeth, Henry M., Salt Lake City, Utah. Double-acting pump	570,528	Nov. 3	163	40	77	668
Wyker, Arthur, assignor to himself and E. W. Moyer, Philadelphia, Pa. Hopper for roller feed-mills	553,092	Jan. 14	1107	268	74	292
	553,886	Feb. 4	142	28	74	532
Wyland, George G., Williamsport, Pa. Metal fastening device						
Wylie, James, <i>et al.</i> (See Moomaw, Henry E., assignor.)						
Wyman, Charles E., Cleveland, Ohio. Furnace	557,469	Mar. 31	3539	846	74	1863
Wyman, Edward B. (See Thomas, Harry A., assignor.)						
Wyman, Horace, assignor to Crompton Loom Works, Worcester, Mass. Loom	561,466	June 2	722	178	75	1506
Wyman, Horace, assignor to Crompton Loom Works, Worcester, Mass. Shuttle-box mechanism for looms	561,467	June 2	725	178	75	1506
Wyman, Horace, assignor to Crompton Loom Works, Worcester, Mass. Clutch-operating mechanism for looms	565,656	Aug. 11	1304	315	76	878
Wyman, Horace, and J. A. Clark, assignors to Crompton Loom Works, Worcester, Mass. Loom for weaving tufted fabrics	566,957	Sept. 1	378	88	76	1354
Wyman, Horace W., and F. H. Daniels, Worcester, Mass. Rail-bond for electric railways	560,455	May 19	2048	466	75	1126
				40		
				41		
Wyman, William H., assignor to Oshkosh Match Works, Oshkosh, Wis. Match-making machine	570,529	Nov. 3	164	42 43 44 45	77	668
Wyndham, James S., and J. H. Hallett, Cardiff, England. Check-valve	574,295	Dec. 29	4024	956	77	2102
Wynkoop, Jehiel F., Muscatine Iowa. Rubber cap for axle-nuts	564,323	July 21	1911	451	76	323
Wynkoop, L. W., <i>et al.</i> (See Maxon, Stiles E., assignor.)						
Wynne, George F., Minera, England. Photographic-exposure meter	557,246	Mar. 31	3161	758	74	1791
Wysong, Max, Maroa, Ill. Wheel-hub	552,569	Jan. 7	111	31	74	23
Wysinger, Leonard, assignor of one-half to C. C. Zeigler, Leitersburg, Md. Wire fence	569,906	Oct. 20	2083	495	77	420
Xenos, Nicholas, New York, N. Y. Keratophone or katoptrikum	566,643	Aug. 25	3029	740 741	76	1242
Yager, William E. (See Sheridan, Frank, assignor.)						
Yaggy, Levi W., Lake Forest, Ill. Portfolio	553,887	Feb. 4	143	29	74	532
Yaggy, Levi W., Lake Forest, Ill. Astronomical chart	554,101	Feb. 4	551	122 123	74	605
Yaggy, Levi W., Lake Forest, Ill. Astronomical chart	554,809	Feb. 18	1771	417 418	74	868
Yaggy, Levi W., Lake Forest, Ill. Color-chart	556,077	Mar. 10	1054	251 252	74	1344
Yaggy, Levi W., Lake Forest, Ill. Astronomical chart	556,486	Mar. 17	1827	425 426	74	1505
Yaggy, Levi W., Lake Forest, Ill. Panoramic display device	564,418	July 21	2075	486	76	413
Yale, Charles O., deceased, Gloversville, N. Y.; L. B. Yale, administrator. Automatic sprinkler	559,346	Apr. 28	3276	791	75	666
Yale, Edwin L., West Lodi, Ohio. Bundle-band	557,746	Apr. 7	409	96	75	77
Yale, Leonard B., administrator. (See Yale, Charles O.)						
Yale & Towne Manufacturing Company. (See Donovan, William F., assignor.)						
Yale & Towne Manufacturing Company. (See Mix, Frank W., assignor.)						
Yale & Towne Manufacturing Company. (See Nash, Paul, assignor.)						
Yale & Towne Manufacturing Company. (See Smith, Lester C., assignor.)						
Yale & Towne Manufacturing Company. (See Stockwell, Emory, assignor.)						
Yale & Towne Manufacturing Company. (See Taylor, Warren H., assignor.)						
Yale & Towne Manufacturing Company. (See Waldron, Frederick A., assignor.)						
Yanner, Frederick M., and H. C. Pfeiffer, Kansas City, Mo.; said Yanner assignor to said Pfeiffer. Portable oven	561,750	June 9	1237	293	75	1630
Yarborough, William L., McKinney, Tex. Hand-support for writers	565,374	Aug. 4	765	182	76	759
Yarnall, John F., Altoona, Pa. Curtain-pole	557,932	Apr. 7	717	173	75	135
Yarrow, Alfred F., London, England. Apparatus for feeding steam-boilers	566,644	Aug. 25	3029	741	76	1242
Yates, Edward D., Franklin, Pa. Oil-well-pumping rig	562,999	June 30	3420	822 823	75	2097
				694 695	76	582
Yates, Joseph, London, England. Steam-packing	564,908	July 28	2899			
Yates, Sidney, Johnstown, N. Y. Coupling for sled-runners	553,951	Feb. 4	276	61	74	555
Yates, William B., and W. S. Huson, Taunton, Mass., assignors to Campbell Printing Press and Manufacturing Company, New York, N. Y. Operating gripper tumbler-cams in printing-presses	561,640	June 9	1032	248	75	1590

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Yawkey, William C., <i>et al.</i> (See Cummings, James F., assignor.)						
Yawman, Philip H. (See Jewell and Yawman.)						
Yawman, Philip H., Rochester, N. Y. Curtain-cabinet	556,394	Mar. 17	1659	388	74	1472
Yeager, Robert L., Burnham, Mo. Plow	554,564	Feb. 11	1341	314	74	770
Yeakel, Abraham M., Perkasio, Pa. Spool-holder	572,043	Nov. 24	2860	673	77	1233
Yeakel, Abraham M., Perkasio, Pa. Spool-holder	573,563	Dec. 22	2645	629	77	1833
Yeakel, George P., Royersford, Pa. Wheel	569,703	Oct. 20	1749	415	77	359
Yeakey, Robert L., Ford's Ferry, assignor of one-half to J. P. and C. J. Pierce, and E. M. McFee, Marion, Ky. Clevis	555,469	Feb. 25	2977	709	74	1109
Yeakley, Melvin A., Cleveland, Ohio. Pneumatic hammer	568,395	Sept. 29	2906	699 700 701	76	1880
Yeakley, Melvin A., Cleveland, assignor of two-thirds to T. Austin, Massillon, and W. T. Lewis, Columbus, Ohio. Engine	571,144	Nov. 10	1309	304	77	909
Yellott, George, Towson, Md. Gate	566,112	Aug. 18	2125	517	76	1053
Yellowley, William, and C. Meyer, Allegheny, Pa. Cigar-bunching machine	563,115	June 30	3632	870 871	75	2137
Yeoman, S. E., <i>et al.</i> (See Watson, James M., assignor.)						
Yerkes, James C. (See Lewis, Harry A., assignor.)						
Yerks, Oren R. (See Garver, Charles, assignor.)						
Yetman, Charles E., Oak Park, assignor to World Flash Company, Chicago, Ill. Combined type-writer and telegraphic transmitter	565,128	Aug. 4	310	74 75	76	674
Yetter, Boyd R. (See Derr, Heister C., assignor.)						
Yingling, Charles, Metuchen, N. J. Grate	556,795	Mar. 24	2357	555	74	1619
Yoch, Benhard, Belleville, Ill. Mining-machine	563,000	June 30	3421	823	75	2098
Yocum, Elra A., and M. O. Nichols, Mendon, Ohio. Car-coupling	570,274	Oct. 27	2748	654	77	559
Yoe, Philip, Dayton, Ohio. Cash-register	555,276	Feb. 25	2622	615	74	1043
Yoerg, Anthony, Jr. (See McDermott, James J. F., assignor.)						
Yon, Joseph T., <i>et al.</i> (See Bélaire, Alfred, assignor.)						
Yon, Nelson, <i>et al.</i> (See Bélaire, Alfred, assignor.)						
York, Harry, and G. E. Slaughter, Colton, assignors of one-third to J. F. Blanchard, San Bernardino, Cal. Hand-truck	560,457	May 19	2050	467	75	1127
York, John W., Nolensville, Tenn. Vehicle-brake	557,747	Apr. 7	410	96	75	77
Yost, George B., Columbus, Ohio, assignor to J. O. Shoup and C. B. Cowen. Knockdown table	573,428	Dec. 15	2403	573	77	1770
Yost, Henry, Jr., <i>et al.</i> (See Preusser, Richard F., assignor.)						
Yost, William L., Chicago, Ill. Revolving case	555,550	Mar. 3	114	26	74	1151
Yost Writing Machine Company. (See Walker, Charles W., assignor.)						
Yost Writing Machine Company. (See Webb, George B., assignor.)						
Young, Albert A., Greenwood, Mass., assignor to Mechanical Manufacturing Company, Nashua, N. H. Air goods	573,122	Dec. 15	1818	438	77	1663
Young, Alfred C., Philadelphia, Pa. Hair-pin	562,690	June 23	2832	688	75	1962
Young, Andrew J., Kenesaw, Nebr. Folding cot	560,960	May 26	2975	683	75	1317
Young, Carl, Chicago, Ill. Bicycle	567,628	Sept. 15	1562	376 377	76	1598
Young, Carl, Chicago, Ill. Spring-motor for bicycles	567,629	Sept. 15	1563	377	76	1598
Young, Carl, Chicago, Ill. Spring-motor for bicycles	567,630	Sept. 15	1566	377	76	1598
Young, Carl, Chicago, Ill. Bicycle	567,631	Sept. 15	1570	377 378	76	1599
Young, Charles H., Laconia, N. H., assignor to himself, and R. Emerson, Rockford, Ill. Tubular knit fabric	574,082	Dec. 29	3595	859	77	2024
Young, Clarence E. (See Davis and Young.)						
Young, Edwin, Pittsburg Pa. Device for polishing shoes	573,379	Dec. 15	2286	545	77	1748
Young, Edwin J., Wadsworth, Ohio. Match-machine	553,888	Feb. 4	145	29, 30	74	533
Young, Ernest W., Austin, assignor to Morgan & Wright, Chicago, Ill. Pneumatic tire	566,113	Aug. 18	2126	518	76	1053
Young, Frank, and W. Rauk, assignors to Kahn & Levy, New York, N. Y. Embossing-machine	569,145	Oct. 6	732	172	77	139
Young, Frederick, Chicago, Ill. Locomotive valve oiler or can	565,129	Aug. 4	317	76	76	676
Young, George, Almond, N. Y. Retort-vaporizer	558,247	Apr. 14	1305	318	75	264
Young, George, Almond, N. Y. Tire for vehicle-wheels	558,248	Apr. 14	1306	319	75	264
Young, George R., Ridgewood, N. J., and C. Shaw, New York, N. Y. Water-raising apparatus	562,266	June 16	2114	513	75	1812
Young, George R., Ridgewood, N. J., and C. Shaw, New York, N. Y. Water-raising apparatus	572,850	Dec. 8	1336	321	77	1553
Young, George W., and A. J. Locher, Kalamazoo, Mich.; said Locher assignor to said Young. Upholstering-machine	557,748	Apr. 7	411	96, 97	75	78
Young, Gilbert D., assignor of one-half to W. F. Day, Morristown, N. J. Bicycle-rack	557,470	Mar. 31	3541	846	74	1864
Young, H. E., <i>et al.</i> (See Nye, Frederick W., assignor.)						
Young, Jackson B., Pasadena, assignor of one-half to D. J. Kennelly, Santa Monica, Cal. Invalid and surgical bed	566,114	Aug. 18	2128	518	76	1053
Young, James M., Allegheny, Pa. Hinge	561,468	June 2	727	178 179	75	1507
Young, James N., Parma, Mich. Fence	563,539	July 7	512	119	76	97
Young, James R., and J. P. Douglass, Leavenworth, Kans. Apparatus for removing dust from cars, rooms, or buildings	566,554	Aug. 25	2910	710	76	1218
Young, John, assignor to Western Electric Company, Chicago, Ill. Automatic fire-alarm system	563,832	July 14	1015	241 242	76	206
Young, John A., Indianapolis, Ind. Automatic temperature-annunciator	572,081	Nov. 24	2958	695	77	1251
Young, John P., Louisville, Ky. Dumping-cart	552,949	Jan. 14	864	209	74	176
Young, John R., assignor of three-fourths to C. M. Gardner, L. H. Hartmann, and J. Shields, Jr., San José, Cal. Beer-drawing apparatus	573,172	Dec. 15	1906	458	77	1680
Young, Jonathan E., and E. S. Norton, Conneaut, Ohio. Electrical train signaling device	567,211	Sept. 8	832	197 198	76	1451
Young, Lemuel W. (See Slattery, Frank S., assignor.)						
Young, Loy B., Newport, Ark. Handle attachment	572,851	Dec. 8	1338	322	77	1553
Young, Mark. (See Prosser, Thomas H., assignor.)						
Young, McClintock, Frederick, Md., assignor to Palmetto Fibre Company, Frederick, Md., and Chicago, Ill. Box	570,530	Nov. 3	172	45, 46	77	669
Young, Oresta W., Chicago, Ill. Collar, cuff, and stud button	562,060	June 16	1773	429	75	1750
Young, Ralph S., Kearney, N. J. Combined extension-ladder and fire-escape	568,999	Oct. 6	494	112	77	94
Young, Robert J., assignor of one-half to J. F. Higgins, Gardner, Kans. Gate	574,296	Dec. 29	4026	956	77	2102
Young, Samuel A., Mercur, Utah. Apparatus for desulfurizing and condensing base-metal ores	566,115	Aug. 18	2133	519	76	1054

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Young, Samuel L., and J. A. Norris, East Liverpool, Ohio. Adjustable picture or mirror frame holder.....	568,826	Oct. 6	191	46	77	38
Young, Tapley W., assignor to W. Wall, Washington, D. C. Apparatus for extracting oil.....	567,434	Sept. 8	1243	300	76	1524
Young, Wilbur, Fairmont, W. Va. School cabinet-tablet.....	566,116	Aug. 18	2135	519	76	1054
Young, William P., Pottstown, Pa. Car-fender.....	552,655	Jan. 7	272	74	74	53
Young, William P., Pottstown, Pa. Car-fender.....	560,075	May 12	1343	301	75	949
Young, William R., Brooklyn, N. Y. Stone-working machinery.....	565,249	Aug. 4	582	136	76	722
Young, William S., Lordsburg, Cal. Pruning implement.....	554,433	Feb. 11	1135	265	74	732
Younger, Alfred E., Omaha, Nebr. Magazine-camera.....	552,570	Jan. 7	113	31	74	23
Younger, Alfred E., Huntington, N. Y. Photographic shutter.....	573,953	Dec. 29	3354	804	77	1981
Younger, George W., London, England. Means for attaching studs, buttons, &c., to wearing apparel.....	573,317	Dec. 15	2185	521	77	1729
Youngquist, Louise, and J. J. Jones, Milwaukee, Wis. Ash-sifter.....	561,304	June 2	426	105	75	1452
Youngren, Peter L., Washington, D. C., assignor to Chisholm, Boyd & White Company, of Illinois. Brick-kiln.....	556,295	Mar. 10	1481	{ 344 } 345	74	1423
Youtz, Harry E. and H. Z., Mountville, Pa. Lifting-jack.....	559,475	May 5	221	49	75	725
Youtz, Harvey Z. (See Youtz, Harry E. and H. Z.)						
Yung, George, Newark, N. J. Clothes-line support.....	567,800	Sept. 15	1860	445	76	1655
Zach, Duane L., Bay City, Mich. Roof or cover fastening device for lumber-piles.....	558,139	Apr. 14	1121	{ 273 } 274	75	229
Zahl, Hjalmar, Duluth, Minn. Fastener for shoe-laces.....	563,833	July 14	1023	242	76	207
Zahn, Franz, New York, N. Y. Pitcher or pot.....	567,801	Sept. 15	1862	445	76	1656
Zahn, Franz, New York, N. Y. Pot or pitcher.....	567,802	Sept. 15	1862	445	76	1656
Zahn, Friedrich, Spandau, Germany. Fixer for rolling blinds.....	552,603	Jan. 7	171	47	74	34
Zahniser, David L. (See Lippy and Zahniser.)						
Zalinski, Edmund L., New York, N. Y. Tube and making.....	556,126	Mar. 10	1143	269	74	1361
Zan, Dom A., San Francisco, Cal. Protective armor for pneumatic tires.....	560,853	May 26	2249	652	75	1293
Zanardo, Antonio, New York, N. Y., assignor to Zanardo Stone Carving Machine Company, Newark, N. J. Machine for cutting and carving marble, &c.....	554,852	Feb. 18	1855	{ 436 } 437	74	885
Zanardo Stone Carving Machine Company. (See Zanardo, Antonio, assignor.)						
Zandalazini, Joseph, Scranton, Pa. Calk for boots or shoes.....	559,923	May 12	1060	236	75	895
Zander, Frank, Buffalo, N. Y. Check-perforator.....	553,889	Feb. 4	147	30	74	533
Zane, George H. (See Fitzgerald and Zane.)						
Zapf, William F., assignor of one-half to C. B. Mann, Cleveland, Ohio. Mustache-spoon.....	553,093	Jan. 14	1108	269	74	222
Zappert, Hermann C., St. Louis, Mo. Process of drying.....	560,561	May 19	2122	506	75	1156
Zaring, Edward K., Bloomington, Ind. Suspender-rack.....	559,655	May 5	523	120	75	782
Zearing, James H., et al. (See Deitz, Henry, assignor.)						
Zearing, Lucinda H., et al. (See Deitz, Henry, assignor.)						
Zedora, John, London, England. Gymnastic apparatus.....	562,448	June 23	2427	589	75	1887
Zeidler, Herman T. R., Berlin, Germany. Electric program-clock.....	553,890	Feb. 4	148	31	74	533
Zeigler, Charles C. (See Wyssinger, Leonard, assignor.)						
Zellstra, Gerhard, assignor of one-half to N. Rosema, Grand Rapids, Mich. Bung.....	559,656	May 5	523	120	75	782
Zeiss, Carl, Firm of. (See Berger, Max, assignor.)						
Zell Engineering Company. (See Zell, Robert R. and H. L., assignors.)						
Zell, Harry L. (See Zell, Robert R. and H. L., assignors.)						
Zell, Robert R. and H. L., Baltimore, Md., assignors to Zell Engineering Company, Limited, New Orleans, La. Marine boiler.....	553,700	Jan. 28	2168	{ 512 } 513	74	448
Zeller, Gustave O., Rahway, N. J. Making pyroxylin solvents.....	555,596	Mar. 3	191		74	1165
Zeller, William. (See Kippels and Zeller.)						
Zellers, Theodor A., and S. R. Blanchard, Ottawa, Ill., assignors to United Glass Company, Syracuse, N. Y. Conveyor for carrying glass from flattening-ovens.....	573,318	Dec. 15	2186	522	77	1729
Zengler, John A., Canton, Ohio. Pottery-molding machine.....	564,680	July 28	2517	595	76	513
Zenke, Henry C., Sandy Point, Wash. Air-brake mechanism.....	571,736	Nov. 17	2318	{ 553 } 554	77	1112
Zerning, Herrmann, assignor to Actien-Gesellschaft, vormals C. H. Stobwasser & Co., Berlin, Germany. Incandescent lamp.....	564,952	July 28	2999	714	76	599
Zeustermann, Adolph, assignor to Practical Novelty Manufacturing Company, Cincinnati, Ohio. Eyeglass-holder.....	553,325	Jan. 21	1525	365	74	313
Zetterlund, August T., Chicago, Ill. Seal.....	571,633	Nov. 17	2129	511	77	1076
Ziegler, Alfred M., Boston, Mass. Buckle.....	555,277	Feb. 25	2626	616	74	1043
Ziegler, Alfred M., Boston, Mass. Elastic cord and making same.....	563,001	June 30	3422	823	75	2098
Ziegler, Charles W., Scranton, Pa. Coal-separator.....	570,781	Nov. 3	661	{ 151 } 152	77	760
Ziegler, Clinton F. (See Reilly and Ziegler.)						
Ziegler, George H., assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Type-casting machine.....	553,575	Jan. 28	1962	464	74	411
Ziegler, John F., Toledo, Ohio. Filter.....	565,250	Aug. 4	583	{ 136 } 137	76	722
Ziegler, John G., assignor to Relay Manufacturing Company, Incorporated, Reading, and W. I. Grubb, Pottstown, Pa. Fitting for bicycles.....	558,545	Apr. 21	1819	443	75	378
Ziegler, Josef, Hamburg, assignor to F. Fritzsche & Co., Hamburg-Uhlenhorst, Germany. Making quinolin compounds.....	563,116	June 30	3636		75	2138
Ziegler-Reinacher, Heinrich, Aadorf, Switzerland. Apparatus for producing hollow celluloid printing-cylinders.....	556,796	Mar. 24	2358	555	74	1620
Ziegler-Reinacher, Heinrich, Aadorf, Switzerland. Producing celluloid rollers with printing-surfaces.....	573,564	Dec. 22	2646	629	77	1833
Ziegler, Theodore N., Canton, Ohio. Lifting-jack.....	566,117	Aug. 18	2135	519	76	1054
Zielke, Fred, assignor of one-half to G. Seubert, Marshfield, Wis. Automatic stop for machines.....	567,435	Sept. 8	1244	300	76	1524
Zigler, Frederick, Ash Grove, Iowa. Crosscut-saw.....	567,436	Sept. 8	1246	300	76	1524
Zigler, John W., et al. (See Tallyday, Franklin G., assignor.)						
Zimmermann, John, Philadelphia, Pa. Woven figured fabric.....	567,286	Sept. 8	978	232	76	1476
Zimmele, John J. (See Bournonville and Zimmele.)						
Zimmer, John and S., Pittsburg, Pa. Ice-cream mold and dipper.....	574,185	Dec. 29	3815	911	77	2062
Zimmer, Susanna. (See Zimmer, John and S.)						
Zimmerlin, Charles G. (See Zimmerlin, Harry F. and C. G.)						
Zimmerlin, Harry F. and C. G., Lyons, N. Y. Ax-rack.....	553,445	Jan. 21	1716	409	74	349
Zimmerman, Casper, Big Stone City, S. D. Lap-robe.....	560,961	May 26	2976	683	75	1317
Zimmerman, Casper, Big Stone City, S. D. Sleigh.....	568,935	Oct. 6	367	84	77	71
Zimmerman, Charles, assignor of two-thirds to H. and G. F. S. Zimmerman, Frederick, Md. Shutter bower and fastener.....	564,548	July 21	2279	535	76	450
Zimmerman, Christian H., Shiremanstown, Pa. Wire-fence stretcher.....	553,3-0	Jan. 21	1619	366	74	331

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Zimmerman, George F. S., <i>et al.</i> (See Zimmerman, Charles, assignor.)						
Zimmerman, George H. (See Garnea and Zimmerman.)						
Zimmerman, Harry, <i>et al.</i> (See Zimmerman, Charles, assignor.)						
Zimmerman, John, assignor to National Key-Opening Can Company, Chicago, Ill. Key-opening sheet-metal can	566,958	Sept. 1	379	88	76	1354
Zimmerman, John, assignor to National Key-Opening Can Company, Chicago, Ill. Key-engaging device for cans	568,222	Sept. 22	2621	630	76	1811
Zimmermann, Josef, Aachen, Germany. Needle	570,590	Nov. 3	293	72	77	693
Zimtbody, Emerich, New York, N. Y. Extension-table	557,933	Apr. 7	718	173	75	136
Zingerman, Maria L. W., Long Island City, N. Y. Music holder and turner	573,749	Dec. 22	2991	709	77	1899
Zink, George, Clear Spring, Md. Well-boring machine	569,012	Oct. 6	511	116	77	97
Zinn, Claude V., Ogden, Utah. Can-opener	556,395	Mar. 17	1662	388	74	1473
Zinn, Claude V., Ogden, Utah. Bicycle-bell	563,834	July 14	1024	242	76	207
Zinn, Jens, Copenhagen, Denmark. Military equipment and accoutrement	559,509	May 5	274	65	75	735
Zinn, Johan A., assignor to Bement, Miles & Co., Philadelphia, Pa. Hydraulic valve	569,907	Oct. 20	2083	496	77	420
Zirkle, Frank, Mechanicsville, Ind. Whip-holder	567,437	Sept. 8	1248	301	76	1525
Ziock, William, <i>et al.</i> (See Nelson, Alfred, assignor.)						
Zobelein, George, <i>et al.</i> (See Rademacher, Frank, assignor.)						
Zoeller, Theodore J. (See Brazelton and Zoeller.)						
Zoerb, Elizabeth. (See Zoerb, William, assignor.)						
Zoerb, William, assignor to E. Zoerb, Dedham, Mass. Spectacle or eyeglass case	565,528	Aug. 11	1076	258	76	835
Zoller, Edmund, Indianapolis, Ind. Picture-frame	563,002	June 30	3424	824	75	2098
Zollinger, Henry, Hyde Park, Mass. Rasp	562,691	June 23	2833	688	75	1962
Zolot, Simon, New York, N. Y. Screw-point-swaging mechanism	568,594	Sept. 29	3287	789	76	1949
Zuck, Boyd, Lanark, Ill. Wire-fence stay	570,531	Nov. 3	173	46	77	669
Zucker & Levett & Loeb Company. (See Haas, Harry L., assignor.)						
Zuelke, Charles L., Furnessville, Ind. Railway guard-gate	556,797	Mar. 24	2361	555	74	1620
Zugermayer, Melchior, assignor of one-half to C. Wagner, Milwaukee, Wis. Window casing and screen	559,019	Apr. 28	2641	643	75	548
Zumdahl, Frederick C. and W. J., Forreton, Ill. Agricultural boiler	571,634	Nov. 17	2130	512	77	1076
Zumdahl, William J. (See Zumdahl, Frederick C. and W. J.)						
Zwiebel, Anton, Burlington, Wis. Windmill	561,040	May 26	3099	714	75	1341
				715		

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Name, residence, and design.	No.	Date.	Official Gazette.	
			Volume.	Page.
A. L. Moore Company. (See Meilink, Charles F., assignor.)				
Abell, Ashley J., assignor to Henderson, Ames Company, Kalamazoo, Mich. Whistle.....	25,238	Mar. 10	74	1435
Abram Cox Stove Company. (See Rankin, Thomas L., assignor.)				
Ackerman, Harman F., Cleveland, Ohio. Paper-weight.....	25,911	Aug. 11	76	953
Adams Company. (See Farwell, Fay O., assignor.)				
Adams, John D., New York, N. Y. Badge.....	25,499	May 19	75	1190
Adams, John Q., Allegheny, Pa. Block for scissors-sharpeners.....	25,714	June 30	75	2182
Adams, Thomas E., Cleveland, Ohio. Electric arc-lamp body.....	25,099	Jan. 28	74	488
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Axle-box frame.....	25,101	Jan. 28	74	489
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Truck side bar.....	25,102	Jan. 28	74	489
Adams & Westlake Company. (See Jones, Fred B., assignor.)				
Addison, Arthur Q., and W. E. Heald, Baltimore, Md. Pin or badge.....	25,935	Aug. 18	76	1106
Aikman, Charles M., Brooklyn, N. Y., assignor to Collins & Aikman Company, Newark, N. J. Pattern for plush or pile fabrics.....	25,901	Aug. 4	76	780
Aladdin Lamp Company. (See Eno, Alfred J., assignor.)				
Albro, George F. (See Tillinghast and Albro.)				
Alcan, Felix, assignor to C. J. Purcell Company, New York, N. Y. Tile.....	25,530	May 19	75	1194
Alcock, Albert J., Vancouver City, Canada. Lamp-chimney.....	25,870	Aug. 4	76	775
Alexander, Charles C., Bayonne, N. J., assignor to Davis, Reid & Alexander, New York, N. Y. Tile.....	25,109	Jan. 28	74	490
Alexander, Edward, Providence, R. I. Name-plate for bicycles.....	25,919	Aug. 11	76	954
Alexander Smith & Sons Carpet Company. (See Doherty, Robert F., assignor.)				
Alexander Smith & Sons Carpet Company. (See Parton, Henry W., assignor.)				
Allen, Bonapart, Buford, Ga. Horse-collar.....	26,362	Dec. 1	77	1420
Allen, Charles F., Columbus, Ohio. Gas or vapor burner.....	26,035	Sept. 15	76	1707
Allen, Frank, New York, N. Y. Necktie.....	25,658	June 23	75	1998
Allen, Frank A., Jackson, Mich. Index and card holder.....	25,317	Mar. 31	74	1888
Allen, George H., Clinton, N. Y. Pen-rack and inkstand.....	25,839	July 28	76	602
Allen, George H., Clinton, N. Y. Match-safe.....	26,295	Nov. 17	77	1116
Allen, George O. (See Merriam, Lyman W., assignor.)				
Altman, Benjamin. (See Royce, Thomas H., assignor.)				
Altman, Isadore. (See Carey, Altman, and Hendrickson.)				
Alvin Manufacturing Company. (See Jamounean, William H., assignor.)				
Ambrose, Edward, Troy, N. Y., assignor to I. A. Sheppard & Co., Philadelphia, Pa. Cooking-stove.....	25,551	May 26	75	1355
Ambrose, Edward, Troy, N. Y., assignor to I. A. Sheppard & Co., Philadelphia, Pa. Heating-stove.....	25,811	July 21	76	467
Ambrose, Edward, Troy, N. Y., assignor to S. B. Sexton, Jr., Baltimore, Md. Kitchen-range.....	25,812	July 21	76	467
American Electric Vehicle Company. (See Woods, Clinton E., assignor.)				
American Lithographic Company. (See Witsch, Nicholas, assignor.)				
American Soda-Fountain Company. (See Helmer, William, assignor.)				
American Stamping Company. (See Eitenheimer, Emanuel, assignor.)				
Anderson, Arthur M. (See Skelly and Anderson.)				
Anderson, Charles L., Willimantic, Conn. Badge.....	25,908	Aug. 11	76	953
Anderson, George. (See Anderson, Robert and G.)				
Anderson, Robert and G., Edinburgh, Scotland. Foot-cycle frame.....	25,998	Sept. 8	76	1567
Anderson, William C., Toledo, Ohio. Glass dish.....	25,512	May 19	75	1191
Anderson, William C., assignor to Libbey Glass Company, Toledo, Ohio. Glass dish.....	25,570	June 2	75	1537
Anderson, William Y. (See Willoughby and Anderson.)				
Arbuckle, John, Brooklyn, N. Y., assignor to Woman's Sunshine Publishing Company, of New York. Ornamental pattern or print for book-covers, &c.....	26,452	Dec. 29	77	2125
Arcade Manufacturing Company. (See Redlinger, Michael, assignor.)				
Arkin, Lazarus, Brooklyn, N. Y. Paper-holder or similar article.....	26,320	Nov. 24	77	1262
Arnold, Constable & Co. (See George, Herbert T., assignor.)				
Arnold, Constable & Co. (See Marchetti, Giulio, assignor.)				
Arrell, Samuel H., Guthrie, Okla. Ter. Tobacco-case.....	25,610	June 9	75	1698
Arrott, Charles F., Allegheny, Pa. Bath-tub.....	25,896	Aug. 4	76	779
Augustine, Archie M., Normal, Ill. Pen-rack.....	26,103	Sept. 29	76	1997
Austin, Nichols & Company. (See Jenkins, George L., assignor.)				
Authier, Misael, Montreal, Canada. Slipper.....	25,236	Mar. 3	74	1272
Bach, Adam, Chicago, Ill. Fork-crown for bicycles.....	25,335	Mar. 31	74	1890
Bachrach, Emanuel S. (See McDonald and Bachrach.)				
Bailey, Charles A., Cromwell, Conn. Toy safe.....	25,577	June 2	75	1538
Bailey, Charles A., Cromwell, Conn. Toy tea-kettle.....	25,578	June 2	75	1539
Bailey, Charles A., Cromwell, Conn. Toy stove.....	26,326	Nov. 24	77	1263
Bain, Forée, Chicago, Ill. Frame for dynamo-machines.....	25,365	Apr. 7	75	176
Bain, Forée, Chicago, Ill. Frame for dynamo-machines.....	25,366	Apr. 7	75	176
Baldwin, George W. (See Rhind, Stoddard, and Baldwin.)				
Baldwin, William W., Cleveland, Ohio. Stove.....	25,066	Jan. 21	74	369
Ball, Bert W., and M. T. Walter, St. Louis, Mo. Match-safe.....	25,814	July 21	76	467
Ball, Webster C., Cleveland, Ohio. Watch-plate.....	25,694	June 30	75	2181
Ball, Webster C., Cleveland, Ohio. Watch-plate.....	25,695	June 30	75	2181
Ball, Webster C., Cleveland, Ohio. Watch-plate.....	26,267	Nov. 17	77	1112
Ball, William E., assignor of one-half to J. F. Burrows, Zanesville, Ohio. Lamp-shade holder.....	26,022	Sept. 15	76	1705
Ballou, George W., New York, N. Y. Lamp-shade.....	25,661	June 23	75	1998
Banker, John M., Saginaw, Mich. Badge.....	25,543	May 26	75	1354
Banning, Walter E., Syracuse, N. Y. Number-plate.....	25,849	July 21	76	469
Barbour, James, Kingsland, Ark. Broadax.....	26,335	Nov. 24	77	1265
Barkley, Lma, Monroe, La. Fan.....	25,382	Apr. 14	75	338
Barler, Richard O., Chicago, Ill. Bicycle-saddle.....	25,724	June 30	75	2184
Barlow, Homer P., Watertown, Conn. Baby-carriage robe.....	25,134	Feb. 4	74	648
Barnett, Flora, New York, N. Y. Hat-rim covering.....	25,428	Apr. 21	75	502

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette.	
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Barnhart Brothers & Spindler. (See Heyer, Charles E., assignor.)				
Barnhart Brothers & Spindler. (See Nadall, Berne, assignor.)				
Barrows, Andrew, East St. Louis, Ill. Railway-spike	26,408	Dec. 15	77	1774
Barrows, George S., Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Mantle-support	26,075	Sept. 22	76	1845
Barrows, William E., Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Gallery for incandescent gas-lights	25,780	July 14	76	328
Barrows, William E., Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Gas-light gallery	25,807	July 21	76	466
Barrows, William E., Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Gallery for incandescent gas-lights	25,844	July 28	76	603
Barrows, William E., Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Gallery for incandescent gas-lights	25,845	July 28	76	603
Barrows, William E., Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Gallery for incandescent lights	26,148	Oct. 6	77	145
Bartel, Rudolph F., Bayonne, N. J. Cap	25,491	May 12	75	989
Basch, David, New York, N. Y. Toe-clip for velocipedes	26,284	Nov. 17	77	1114
Batcheller, George S., Millbury, Conn. Clip for washing-machines	26,110	Sept. 29	76	1997
Bates, Francis A., Philadelphia, Pa., assignor to Morse, Williams & Company, of Pennsylvania. Cross-head for hoisting machinery	25,778	July 14	76	328
Bates, Francis A., Philadelphia, Pa., assignor to Morse, Williams & Company, of Pennsylvania. Cylinder-head for hoisting-machines	26,073	Sept. 22	76	1845
Bates, George E., and R. Dev. Syracuse, N. Y. Seat for saddles	25,153	Feb. 11	74	800
Bates, William S., Chicago, Ill. Puzzle	25,350	Apr. 7	75	174
Bay State Optical Company. (See Chulee, Stephen J., assignor.)				
Bayley, William, Springfield, Ohio. Tobacco-cutter	26,355	Dec. 1	77	1419
Baynes, Edward C., Buffalo, N. Y. Head or foot board for bedsteads	25,417	Apr. 21	75	500
Bean, George W., Philadelphia, Pa. Bottle-stopper	26,349	Dec. 1	77	1418
Bearisley, Fannie B. S., Topeka, Kans. Button	26,012	Sept. 15	76	1704
Bearisley, Lauren S., Naugatuck, Conn. Insulator-bracket	25,177	Feb. 18	74	956
Bearisley, Lauren S., Naugatuck, Conn. Insulator-bracket	25,178	Feb. 18	74	956
Bearisley, William N., Bridgeport, Conn. Foot-rest for pedals	26,160	Oct. 6	77	146
Bearisley, William N., Bridgeport, Conn., assignor to M. Hartley and M. Graham, New York, N. Y. Wall-support for bicycles	25,282	Mar. 24	74	1732
Beattie, Herbert W., Quincy, Mass., assignor to Sill Stove Works, Rochester, N. Y. Shelf-section for stoves	26,261	Nov. 10	77	967
Beattie, Herbert W., Quincy, Mass., assignor to Sill Stove Works, Rochester, N. Y. Cooking-stove	26,262	Nov. 10	77	967
Beattie, James W., Rutland, Vt. Fly-paper	25,960	Aug. 18	76	1109
Beck, Albert T., Cincinnati, Ohio. Fcz	25,375	Apr. 14	75	337
Beckwith, Dean A., New York, N. Y. Table	25,676	June 23	75	2000
Beekman, John V., Plainfield, N. J. Lubricating-box for friction-drums	25,202	Feb. 25	74	1116
Behm, Gustav, Chicago, Ill. Guitar-body	26,398	Dec. 15	77	1773
Beldy, Casey M., Brooklyn, N. Y. Box	25,706	June 30	75	2182
Bell, Arthur F., assignor of one-half to L. T. Sweet, Belle Plaine, Iowa. Fender	25,806	July 21	76	466
Benjamin, Darius C., Alpha, Minn. Fence-strand	26,410	Dec. 15	77	1775
Bennett, Benjamin, Grapeville, Pa. Glass vessel	25,194	Feb. 25	74	1115
Bennett, Ernest H., East Orange, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	25,903	Aug. 4	76	780
Bennett, Lewis, East Schuylcr, N. Y. Basket	25,927	Aug. 11	76	955
Bensinger, Moses, assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Bolt-head mask or covering-plate for billiard-table cushion-rails	25,646	June 16	75	1846
Bentley, Charles W., Jr. (See Bentley, Edwin O., assignor.)				
Bentley, Edwin O., assignor of one-half to C. W. Bentley, Jr., Bentley Springs, Md. Puzzle-board	26,010	Sept. 8	76	1570
Bergner, William, Baltimore, Md. Easel-stand	25,758	July 7	76	155
Bernard, Alfred F., Oskaloosa, Iowa. Nut-lock	25,915	Aug. 11	76	953
Berner, John, Philadelphia, Pa. Sponge-cup	25,660	June 23	75	1998
Bernstein, Henry, assignor to Bernstein, Kaufman & Co., Philadelphia, Pa. Trimming	25,818	July 21	76	468
Bernstein, Kaufman & Co. (See Bernstein, Henry, assignor.)				
Bertucci, Peter J., New York, N. Y. Razor-wiper	26,020	Sept. 15	76	1704
Beseler, Charles, Jersey City, N. J. Jet for lime-lights	25,253	Mar. 17	74	1582
Bevin, Samuel M., East Hampton, Conn. Toe-clip	25,913	Aug. 11	76	953
Bigelow Carpet Company. (See Brown, William F., assignor.)				
Bigelow Carpet Company. (See Merry, John, assignor.)				
Billings, Charles E., Hartford, Conn. Wrench	26,111	Sept. 29	76	1998
Billings, Luther G., Clifton, N. Y. Bicycle-frame	26,179	Oct. 13	77	306
Billings, Luther G., Clifton, N. Y. Handle-bar	26,339	Nov. 24	77	1265
Birge, Henry M. (See Booz, Charles, assignor.)				
Birge, Henry M. (See Clémence, Louis, assignor.)				
Birge, Henry M. (See Groeber, Paul, assignor.)				
Bitter, Clarence B. R., Toledo, Ohio. Puzzle-box	26,162	Oct. 6	77	146
Blair, George W., Pittsburg, Pa. Lamp-chimney	26,004	Sept. 8	76	1568
Blair, George W., Pittsburg, Pa. Lamp-chimney	26,005	Sept. 8	76	1568
Blair, George W., Pittsburg, Pa. Lamp-chimney	26,147	Oct. 6	77	144
Blair, George W., Pittsburg, Pa. Lamp-chimney	26,350	Dec. 1	77	1419
Blair, George W., Pittsburg, Pa. Lamp-chimney	26,351	Dec. 1	77	1419
Blake Manufacturing Company. (See Blake, William E., assignor.)				
Blake, William E., assignor to Blake Manufacturing Company, Springfield, Mass. Bicycle-handle	26,445	Dec. 22	77	1933
Blank, Bernard H., assignor to Hammel, Riglander & Co., New York, N. Y. Opera-glass holder	25,838	July 28	76	602
Blinn, Joseph S., New Haven, Conn. Campaign-badge	25,406	Apr. 21	75	499
Blinn, Joseph S., New Haven, assignor to Scovill Manufacturing Company, Waterbury, Conn. Campaign-badge	25,453	May 5	75	826
Blinn, Joseph S., New Haven, assignor to Scovill Manufacturing Company, Waterbury, Conn. Badge	25,554	June 2	75	1536
Blumenthal, Max, Chicago, Ill. Advertising-stand	26,370	Dec. 1	77	1422
Bobrick, Gabriel A., Boston, Mass. School-chair	25,897	Aug. 4	76	779
Bodine, George H., Zanesville, Ohio. Building-block	25,044	Jan. 7	74	137
Boeck, Charles H., assignor to Novelty Manufacturing Company, Jackson, Mich. Oil heating-stove	25,813	July 21	76	467
Boeck, Charles H., assignor to Novelty Manufacturing Company, Jackson, Mich. Sad-iron heater	26,302	Nov. 17	77	1117
Boley, Benjamin, Brooklyn, N. Y. Bottle-stopper plug	25,917	Aug. 11	76	954
Bonte, Mary E., Cincinnati, Ohio. Meat-tenderer	25,841	July 28	76	603
Booth, William N., and I. Lewis, Cleveland, Ohio. Crank-shaft	25,717	June 30	75	2183
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,086	Sept. 22	76	1847
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,087	Sept. 22	76	1847
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,088	Sept. 22	76	1847
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,089	Sept. 22	76	1848
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,090	Sept. 22	76	1848

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Name, residence, and design.	No.	Date.	Official Gazette.	
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Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,091	Sept. 22	76	1848
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,092	Sept. 22	76	1848
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,093	Sept. 22	76	1848
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,094	Sept. 22	76	1848
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,095	Sept. 22	76	1848
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,096	Sept. 22	76	1848
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,097	Sept. 22	76	1849
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,098	Sept. 22	76	1849
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,099	Sept. 22	76	1849
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,100	Sept. 22	76	1849
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,124	Sept. 29	76	1909
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,125	Sept. 29	76	1909
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,126	Sept. 29	76	1909
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,127	Sept. 29	76	2000
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,128	Sept. 29	76	2000
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,129	Sept. 29	76	2000
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,130	Sept. 29	76	2000
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,131	Sept. 29	76	2000
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,132	Sept. 29	76	2000
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,133	Sept. 29	76	2000
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,134	Sept. 29	76	2001
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,135	Sept. 29	76	2001
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,136	Sept. 29	76	2001
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,137	Sept. 29	76	2001
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,138	Sept. 29	76	2001
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,139	Sept. 29	76	2001
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,140	Sept. 29	76	2001
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,141	Sept. 29	76	2001
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,142	Sept. 29	76	2001
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,210	Oct. 20	77	448
Booz, Charles, assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,211	Oct. 20	77	448
Bosworth, Charles, Brooklyn, N. Y. Picture-frame molding	25,215	Mar. 3	74	1268
Bosworth, Charles, Brooklyn, N. Y. Picture-frame molding	25,216	Mar. 3	74	1268
Bosworth, Charles, Brooklyn, N. Y. Picture-frame molding	25,217	Mar. 3	74	1268
Bosworth, Charles, Brooklyn, N. Y. Picture-frame molding	25,218	Mar. 3	74	1268
Bothwell, William H., Philadelphia, Pa. Bowing-clasp for window-shutters	25,781	July 14	76	328
Bowe, John C., Syracuse, N. Y. Fork for bicycles, &c.	25,802	July 21	76	465
Bowen, David R., assignor to Farrel Foundry and Machine Company, Ansonia, Conn. Calendering-machine frame	25,254	Mar. 17	74	1582
Bowen, Dewitt C., Kansas City, Mo. Bracket	25,203	Feb. 25	74	1116
Bowen, George R., San Antonio, Tex. Handkerchief, &c.	25,753	July 7	76	154
Bowen, George R., San Antonio, Tex. Handkerchief, &c.	25,754	July 7	76	155
Bowen, Leander P., Auburn, N. Y. Bicycle-stand	25,674	June 23	75	2000
Bowen, Mahlon P., Los Angeles, Cal. Curtain-ring, &c.	25,797	July 21	76	465
Bown, William, and J. H. Hughes, Birmingham, England. Fork and crown for velocipedes	25,974	Aug. 25	76	1268
Bradley & Hubbard Mfg. Co. (See Patitz, Albert, assignor.)				
Bradshaw, Cornelius G., Butte, Mont. Badge	25,037	Jan. 7	74	136
Bradshaw, Silas S., Brooklyn, assignor of one-half to C. Lyons, Jr., New York, N. Y. Plate for transom-lights	25,716	June 30	75	2153
Brady, Charles N., Washington, Pa. Bottle	25,472	May 12	75	966
Braerman, Floyd A., et al. (See Schwechler, John, assignor.)				
Brah, William. (See Fairbairn and Brah.)				
Brambach, Stephen, New York, N. Y. Piano-case	25,198	Feb. 25	74	1115
Braun, Cornelius, Louisville, Ky. Fireplace-front	25,360	Apr. 7	75	175
Bremer, Max, New Bedford, Mass. Casket-plate	25,066	Jan. 28	74	488
Bremer, Max, assignor to Pairpoint Manufacturing Company, New Bedford, Mass. Casket-plate	25,095	Jan. 28	74	488
Bren, Robert R., New York, N. Y. Sash-weight	26,174	Oct. 13	77	306
Bridgeport Brass Company. (See Rhind, Stoddard, and Baldwin, assignors.)				
Bridges, Harry M., assignor of one-half to W. Klee, Ottumwa, Iowa. Carpet-stretcher	25,256	Mar. 17	74	1583
Briggs, Frank, et al. (See Redheffer, William H., Jr., assignor.)				
Brill, George M., Philadelphia, Pa. Car-truck frame	26,382	Dec. 8	77	1578
Brill, George M., Philadelphia, Pa. Truck side frame	26,383	Dec. 8	77	1588
Brill, John A. (See Adams, Walter S., assignor.)				
Brill, John A., Philadelphia, Pa. Car-seat panel	25,362	Apr. 7	75	175
Brill, John A., Philadelphia, Pa. Rib for car-seat panels	25,877	Aug. 4	76	778
Brill, John A., Philadelphia, Pa. Car-seat panel	26,068	Sept. 22	76	1844
Brill, John A., Philadelphia, Pa. Side frame for car-trucks	26,405	Dec. 15	77	1774
Brill, John A., Philadelphia, Pa. Side frame for car-trucks	26,406	Dec. 15	77	1774
Brill, John A., Philadelphia, Pa. Side frame for car-trucks	26,407	Dec. 15	77	1774
Brindle, Ira, Markes, Pa. Strainer-box	26,225	Oct. 27	77	625
Bristol Brass and Clock Company. (See Smith, Ira B., assignor.)				
Bristow, Henry, Brooklyn, N. Y. Book	25,981	Sept. 1	76	1413
Brobst, William L., assignor of two-thirds to M. E. Hicks, Oleona, and N. Wykoff, Hammersley's Fork, Pa. Envelop	26,378	Dec. 8	77	1587
Brockway, William F., Adel, Iowa. Campaign badge	26,191	Oct. 20	77	445
Bromley, Edward, et al. (See Wilde, Arthur W., assignor.)				
Bromley, John H., et al. (See Wilde, Arthur W., assignor.)				
Bromley, Joseph H., et al. (See Wilde, Arthur W., assignor.)				
Bromley & Sons, John. (See Bennett, Ernest H., assignor.)				
Bromley & Sons, John. (See Petzold, Adolph, assignor.)				
Bromley, William H., et al. (See Wilde, Arthur W., assignor.)				
Brooks, James W., et al., trustees. (See Willson, Charles H., assignor.)				
Brown, James G., Milwaukee, Wis., assignor to Western Stove and Manufacturing Company, of Wisconsin. Tank-shield	25,921	Aug. 11	76	954
Brown, John W., Jr., Philadelphia, Pa. Cross-bar for sad-irons	25,520	May 19	75	1193
Brown, Lewis A., St. Louis, Mo. Badge	25,544	May 26	75	1354
Brown, Lewis A., St. Louis, Mo. Badge	25,553	June 2	75	1535
Brown, Lydia J., New Haven, Conn. Balance-weight	26,357	Dec. 1	77	1420
Brown, Thomas B., Noroton, Conn. Handled vessel	25,857	Aug. 4	76	774
Brown, Tristram D., Canandaigua, N. Y. Tea or coffee pot blank	25,285	Mar. 24	74	1722
Brown, William F., Newark, N. J., assignor to Bigelow Carpet Company, of Massachusetts. Carpet	25,292	Mar. 24	74	1723
Brown, William F., Newark, N. J., assignor to Bigelow Carpet Company, of Massachusetts. Carpet-border	25,378	Apr. 14	75	338

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Brown, William I., assignor to Thistle Cheese Company, Utica, N. Y. Cheese	26,312	Nov. 17	77	1119
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Base for chairs	25,523	May 19	75	1193
Browne, Frank E., Los Angeles, Cal. Lamp-stove	25,396	Apr. 14	75	341
Bruce, James, Capelton, Canada. Toy	26,425	Dec. 22	77	1930
Brunswick-Balke-Collender Company. (See Bensinger, Moses, assignor.)				
Bryant, James R., Crawfordville, Ind. Crest-tile	25,052	Jan. 14	74	264
Buick, David D., Detroit, Mich. Bath-tub rim	26,083	Sept. 22	76	1847
Buick, David D., Detroit, Mich. Bath-tub	26,084	Sept. 22	76	1847
Bump, John C., Milwaukee, Wis., assignor to Eclipse Stove Company, Mansfield, Ohio. Stove-base	26,006	Sept. 8	76	1569
Bunel, Alfred, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,161	Feb. 11	74	801
Bunel, Alfred, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,162	Feb. 11	74	801
Bunel, Alfred, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,163	Feb. 11	74	802
Bunel, Alfred, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,229	Mar. 3	74	1271
Bunel, Alfred, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,230	Mar. 3	74	1271
Bunel, Alfred, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,654	June 16	75	1847
Bunel, Alfred, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,685	June 23	75	2002
Bunker, William I., La Grange, Ill. Bicycle-saddle	25,590	June 2	75	1540
Bunker, William I., La Grange, Ill. Bicycle-saddle	25,725	June 30	75	2184
Bunnell, Elizabeth B., Topeka, Kans. Garment-supporter	25,795	July 21	76	464
Burnett, James W., Huntington, W. Va. Kitchen-cabinet	26,184	Oct. 13	77	307
Burns, Philip, Norwich, Conn. Chain-link	25,914	Aug. 11	76	953
Burrows, J. Franklin. (See Ball, William E., assignor.)				
Burt, John T., East Stroudsburg, Pa. Frame for bottle-openers	25,608	June 9	75	1697
Burt, William H., Chicago, Ill. Bed or mattress for horses	25,626	June 9	75	1700
Burton, Oscar F., Belleville, N. J. Sprocket-wheel	25,803	July 21	76	465
Butler, Frederick W., and W. E. Dempsey, Akron, Ohio. Earthen jar	25,405	Apr. 21	75	490
Butler, Hermon B., assignor to Joseph T. Ryerson & Sons, Chicago, Ill. Boiler-lug	25,846	July 28	76	604
Butler, Hiram E., Jamestown, N. Y. Sad-iron holder	25,581	June 2	75	1539
Butler, James H., Somerville, Mass. School-chair	25,582	June 2	75	1539
Butler, William, and L. H. Zeigler, assignors to Marietta Glass Company, Redkey, Ind. Pattern for sheet-glass	26,311	Nov. 17	77	1119
C. J. Purcell Company. (See Alcan, Felix, assignor.)				
Caldwell & Co., J. E. (See Darling, Flora A., assignor.)				
Caldwell, Frank G., Wheeling, W. Va. Ceiling or wall panel	25,330	Mar. 31	74	1890
Campbell, Ernest W., Providence, R. I., assignor to Holmes & Edwards Silver Company, Bridgeport, Conn. Spoon &c	25,634	June 16	75	1844
Campbell, Jacob B., Yonkers, N. Y. Carpet	25,220	Mar. 3	74	1260
Campbell, Jacob B., Yonkers, N. Y. Carpet	25,221	Mar. 3	74	1269
Campbell, Jacob B., Yonkers, N. Y. Carpet	25,222	Mar. 3	74	1269
Campbell, Jacob B., Yonkers, N. Y., assignor to W. J. Hogg, Worcester, Mass. Carpet	25,223	Mar. 3	74	1269
Campbell, Jacob B., Yonkers, N. Y., assignor to W. J. Hogg, Worcester, Mass. Carpet	25,224	Mar. 3	74	1279
Campbell, Jacob B., Yonkers, N. Y., assignor to W. J. Hogg, Worcester, Mass. Carpet	25,225	Mar. 3	74	1270
Campbell, Jacob B., Yonkers, N. Y., assignor to W. J. Hogg, Worcester, Mass. Carpet	25,540	May 19	75	1196
Candee, Frank J., Little Blue, Mo. Game-board	26,042	Sept. 15	76	1707
Carey, Michael F., I. Altman, and W. Hendrickson, Philadelphia, Pa. Bicycle-lamp	25,876	Aug. 4	76	776
Carney, Bernard M., McKeesport, Pa. Flush-tank	26,409	Dec. 15	77	1774
Carré, Alfred D., Brightwood, D. C., assignor of one-half to C. E. Vickery, Kingwood, W. Va. Bicycle-saddle	25,877	Aug. 4	76	776
Case, William, Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Bolster for cars	25,671	June 23	75	2000
Case, William, Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Bolster for cars	25,672	June 23	75	2000
Casey, John, and M. S. Chism, Philadelphia, Pa. Eyeglass or spectacle case	25,638	June 16	75	1844
Casseday, David W., Minneapolis, Minn. Badge	26,145	Oct. 6	77	144
Casselberry, Frank L., assignor to E. Ivins, Philadelphia, Pa. Biscuit	25,243	Mar. 10	74	1436
Cather, Ezra. (See Whiting and Cather.)				
Chaplin, William B., West Newbury, Mass. Last	26,161	Oct. 6	77	146
Chapman, Charles H., et al. (See Gates, Eugene N., assignor.)				
Charles Parker Company. (See Griswold, Lewis F., assignor.)				
Chase, Frederick S., Waterbury, Conn. Shade-holder	26,105	Sept. 29	76	1997
Chase, Frederick S., assignor to Waterbury Manufacturing Company, Waterbury, Conn. Oil-can	25,323	Mar. 31	74	1888
Chase, Frederick S., assignor to Waterbury Manufacturing Company, Waterbury, Conn. Oil-can	25,946	Aug. 18	76	1107
Chatelain, Peter, assignor to M. H. Dryfoos & Co., Boston, Mass. Glove	25,049	Jan. 14	74	264
Chatelain, Peter, assignor to M. H. Dryfoos & Co., Boston, Mass. Glove	25,050	Jan. 14	74	264
Cheshire Manufacturing Company. (See Ives, Frederick A., assignor.)				
Chisholm, Toliver L., assignor of one-third to R. M. Grubbs, Atoka, Ind. Ter. Strap-hinge	26,381	Dec. 8	77	1588
Chism, Murray S. (See Casey and Chism.)				
Chouteau, Joseph G. (See Dockery and Chouteau.)				
Chrisman, Fred F., assignor to Hunter Arms Company, Fulton, N. Y. Fork-crown for bicycles	25,281	Mar. 24	74	1722
Christian, Lorenzo L., Eureka Springs, Miss. Plow-handle or grip	26,444	Dec. 22	77	1933
Churchman, F. M., et al. (See Glasscock, James B., assignor.)				
Clare, Frederick, Preston, Canada. Radiator	25,739	June 30	75	2186
Clark, Allison N., Plainville, Conn. Pliers	25,978	Aug. 25	76	1269
Clark, Allison N., Plainville, Conn. Match-box	26,252	Nov. 10	77	966
Clark, Allison N., Plainville, Conn. Body for match-boxes	26,316	Nov. 24	77	1261
Clark, James G., and S. F. Price, Oshkosh, Wis. Handkerchief or similar fabric	26,169	Oct. 6	77	147
Clarke, Charles F., Highlands, Del. Toy bank	26,197	Oct. 20	77	446
Clarke, Marshall, New York, N. Y. Flower-pot holder	26,067	Sept. 22	76	1844
Claveloux, Alphonsine J., San Francisco, Cal. Corset	26,044	Sept. 15	76	1708
Clawson, Clement C., Newark, N. J. Case for coin-receivers	25,280	Mar. 24	74	1721
Claybrook, James M., Huntsville, Ala. Button	25,306	Mar. 31	74	1886
Cleff, Ernest, Fairhaven, assignor to Pairpoint Manufacturing Company, New Bedford, Mass. Casket-handle ear	25,060	Jan. 21	74	368
Cleff, Ernest, Fairhaven, assignor to Pairpoint Manufacturing Company, New Bedford, Mass. Casket-handle ear	25,307	Mar. 31	74	1886
Clemencet, Louis, West Hoboken, N. J., assignor to H. M. Birge, Buffalo, N. Y. Wall-paper	26,121	Sept. 29	76	1999
Clement, John, Birmingham, England. Oil-can	25,395	Apr. 14	75	341
Cliff, Edward, Newark, N. J. Casing for side bearings for car-trucks	25,958	Aug. 18	76	1109
Clifton, Samuel E., Cohoes, N. Y. Undergarment	25,250	Mar. 17	74	1582
Chiu, John J., Lowell, Mass. Badge	25,555	June 2	75	1536
Chiu, John J., Lowell, Mass. Badge	25,556	June 2	75	1536
Chulee, Stephen J., assignor to Bay State Optical Company, Attleborough, Mass. Eyeglass-hook	25,603	June 9	75	1697

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Clunies, Arthur B., assignor to Sill Stove Works, Rochester, N. Y. Fire-brick	25,532	May 19	75	1194
Clunies, Arthur B., assignor to Sill Stove Works, Rochester, N. Y. Fire-pot lining	25,888	Aug. 4	76	778
Clunies, Arthur B., assignor to Sill Stove Works, Rochester, N. Y. Fire-pot lining	25,889	Aug. 4	76	778
Clunies, Arthur B., assignor to Sill Stove Works, Rochester, N. Y. Fire-pot lining	25,890	Aug. 4	76	778
Clunies, Arthur B., assignor to Sill Stove Works, Rochester, N. Y. Water-front	25,891	Aug. 4	76	778
Clunies, Arthur B., assignor to Sill Stove Works, Rochester, N. Y. Fire-brick	26,292	Nov. 17	77	1115
Clunies, Arthur B., assignor to Sill Stove Works, Rochester, N. Y. Fire-brick	26,403	Dec. 15	77	1773
Cochrane, Horace, Newark, N. J. Game-board	25,053	Jan. 14	74	265
Cooke, George M., Milwaukee, Wis., assignor to Fuller-Warren Company, of Wisconsin. Heating-stove	26,249	Nov. 3	77	805
Codman & Shurtleff. (See Hesse, Frank K., assignor.)				
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, &c	25,503	May 19	75	1190
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, &c	25,504	May 19	75	1191
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, &c	25,691	June 30	75	2180
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Mirror-back	26,458	Dec. 29	77	2126
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Brush-back or similar article	26,250	Nov. 10	77	966
Cotill, Volney K., Brooklyn, N. Y. Game-board	25,186	Feb. 18	74	958
Cohen, Israel B., New York, N. Y. Handle for feather dusters	26,199	Oct. 20	77	446
Cohen, Morris I., Chicago, Ill. Fireplace-front	26,367	Dec. 1	77	1421
Cole, Ella L., New York, N. Y. Grip for skirts, &c	25,993	Sept. 8	76	1566
Colleston, Henry M., Worcester, Mass. Cane fabric	26,475	Dec. 29	77	2128
Collins & Aikman Company. (See Aikman, Charles M., assignor.)				
Collins, Matthew G., Camden, N. J. Knife	25,047	Jan. 14	74	264
Collins, Michael J., New York, N. Y. Umbrella-stand	25,645	June 16	75	1846
Collins, William G., New York, N. Y. Plush fabric	25,494	May 12	75	989
Collins, William G., New York, N. Y. Pattern for plush or pile fabrics	25,742	June 30	75	2186
Collins, William G., New York, N. Y. Plush or pile fabric	25,743	June 30	75	2187
Columbo, Max, Bayonne, N. J. Game-board	25,534	May 19	75	1195
Coman, Mary A., Philadelphia, Pa. Waiter's cabinet	25,847	July 28	76	604
Combes, Theodore C., Philadelphia, Pa. Badge	25,113	Feb. 4	74	645
Commos, Joseph T., New York, N. Y. Match	25,612	June 9	75	1698
Comstock, Alphonso S., Evanston, Ill. Twine-holder	25,705	June 30	75	2182
Comstock, Clark S., Bloomfield, N. J., assignor to Porter Brothers & Co., New York, N. Y. Buckle	25,531	July 22	76	602
Coulin, Robert E., Canton, N. Y. Nasal-syringe	25,510	May 19	75	1191
Conover, Charles I., Charleston Four Corners, N. Y. Butter-receptacle	26,153	Oct. 6	77	145
Conradt, Charles. (See Louer, Reis, and Conradt.)				
Constantin, Gaston E., Brooklyn, N. Y. Bicycle-cover	25,879	Aug. 4	76	777
Conway, George M., Milwaukee, Wis. Grate-bar	25,533	May 19	75	1194
Cooke, Robert F., Brooklyn, N. Y. Match-splint	25,175	Feb. 18	74	956
Cooley, Ralph B., Granville, Mass. Drum	26,082	Sept. 22	76	1846
Cooper, Herbert W., Moline, Ill. Horse-collar fastener	25,488	May 12	75	988
Co-Operative Foundry Company. (See Kennedy and King, assignors.)				
Co-Operative Foundry Company. (See King and Kennedy, assignors.)				
Cope, Henry P., Detroit, Mich. Casing for siphon-discharge valves	25,100	Jan. 28	74	488
Copland, Virginia, Washington, D. C. Erasing-plate	26,251	Nov. 10	77	966
Cornell, Willis F., Alameda, Cal. Font of type	26,310	Nov. 17	77	1118
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Shelf-bracket	25,785	July 14	76	329
Court, Charles S. (See Crees and Court.)				
Coverston, George W., Muscatine, Iowa. Name-holder	25,989	Sept. 8	76	1566
Covert, James C., West Troy, N. Y. Buckle-frame	25,075	Jan. 21	74	371
Covert, James C., West Troy, N. Y. Breast-strap protector	25,416	Apr. 21	75	500
Coyne, Frederick W., Toronto, Canada. Campaign pin or button	26,234	Nov. 3	77	803
Craig, John. (See Craig, Samuel and J.)				
Craig, Samuel and J., Garden City, Kans. Weed-hoe	26,183	Oct. 13	77	307
Creed, Robert P., Cleveland, Ohio. Mantel ornament	25,571	June 2	75	1538
Crees, Eustace, and C. S. Court, Providence, R. I., assignors to Watson & Newell Company, Incorporated, Attleborough, Mass. Spoon-handle	25,505	May 19	75	1191
Crees, Eustace, and C. S. Court, Providence, R. I., assignors to Watson & Newell Company, Incorporated, Attleborough, Mass. Handle for spoons	25,936	Aug. 18	76	1106
Cremen, John E., Washington, D. C. Button or pin	26,059	Sept. 22	76	1843
Croft, W. E. (See Slafter, Coroden J., assignor.)				
Crouch, Walker L., New Brighton, Pa. Frame for gas-engines	26,072	Sept. 22	76	1845
Crowe, Eugene, Brooklyn, assignor to E. S. Higgins Carpet Company, New York, N. Y. Carpet	25,495	May 12	75	989
Crowe, Eugene, Brooklyn, assignor to E. S. Higgins Carpet Company, New York, N. Y. Carpet	25,496	May 12	75	989
Crowe, Eugene, Brooklyn, assignor to E. S. Higgins Carpet Company, New York, N. Y. Carpet	25,497	May 12	75	990
Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Hafl, New York, N. Y. Spoon, &c	26,393	Dec. 15	77	1772
Crozier, Thomas W., Roanoke, Va. Window-sash lock	25,712	June 30	75	2182
Culmer, John W., New Brighton, Pa. Scale-weight	25,721	June 30	75	2183
Curwen, Samuel M., Philadelphia, Pa. Truck side bar	26,442	Dec. 22	77	1932
Custer, Levitt E., Dayton, Ohio. Electrical muffle-casing	25,843	July 28	76	603
Cutajar, Joseph S., Lynn, Mass. Shoe	25,429	Apr. 21	75	502
Danby, Arthur, assignor to Ivins, Dietz & Metzger Company, Philadelphia, Pa. Carpet	25,450	Apr. 28	75	670
Danby, Arthur, assignor to Ivins, Dietz & Metzger Company, Philadelphia, Pa. Carpet	25,681	June 23	75	2001
Dane, Frank R. (See Potter and Dane.)				
Danforth, Cyrus L., assignor of two-thirds to C. A. Windmuller, S. Scott, and J. P. Richarz, St. Louis, Mo. Globe for arc-lamps	25,616	June 9	75	1698
Dann, Jesse L., Columbus, Ohio. Elastic tire	26,338	Nov. 24	77	1265
Dann, Jesse L., Columbus, Ohio. Felly or wheel-rim	26,345	Nov. 24	77	1266
Dantzer, Lemuel N., Dalton, Ga. Back-band loop	25,711	June 30	75	2182
Darling, Flora A., New York, N. Y., assignor to J. E. Caldwell & Co., Philadelphia, Pa. Badge	25,909	Aug. 11	76	953
Davies, Benjamin, Hoboken, N. J., assignor to L. Straus & Sons, of New York. Glass vessel	26,190	Oct. 13	77	308
Davis, Albert T. L. (See Pepper and Davis.)				
Davis, George, et al. (See Schwechler, John, assignor.)				
Davis, George W., Chicago, Ill. Gas-fixture	25,212	Mar. 3	74	1267
Davis, Jacob, New York, N. Y. Rule or measuring-stick	25,609	June 9	75	1697
Davis, John C., Seneca Falls, N. Y. Pump-base	25,070	Jan. 21	74	370
Davis, Reid & Alexander. (See Alexander, Charles C., assignor.)				
Davis, Samuel H., Alfred, N. Y. Electric-light fixture	26,034	Sept. 15	76	1706
Dazun, Léon P., Breaux Bridge, La. Eating-fork	25,384	Apr. 14	75	339
De Long, Oscar A., New York, N. Y. Hook-and-eye mount	25,992	Sept. 8	76	1566

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Deknatel, Herman A., New York, N. Y. Box	26,400	Dec. 15	77	1773
Dempsey, William E. (See Butler and Dempsey.)				
Demuth, William, New York, N. Y. Pipe	25,564	June 2	75	1537
Demuth, William, New York, N. Y. Mouthpiece for pipes	26,104	Sept. 29	76	1997
Dennies, Lawrence, New York, N. Y. Bicycle-bag	25,618	June 9	75	1699
Denton, Lemi B., assignor of one-half to O. A. Ward, Grand Rapids, Mich. Blank for caster-cases.	26,112	Sept. 29	76	1998
Depollier, Charles L., Brooklyn, N. Y. Watchcase	25,398	Apr. 14	75	341
Derr, Frank P., Baltimore, Md. Drinking vessel	26,023	Sept. 15	76	1705
Derr, John P., Cleveland, Ohio. Handle for fruit-jar wrenches	25,457	May 5	75	826
Desjardins, Theodore R., Attleborough, Mass. Table-cloth fastener	25,058	Jan. 21	74	368
Detroit Cap Manufacturing Co. (See Wolfgang, Adolph, assignor.)				
Detroit Lawn Mower Company. (See Maynard, Frederick T., assignor.)				
Deuble, Walter H., Canton, Ohio. Spoon	25,204	Mar. 3	74	1266
Deveaux, Thomas H., Toledo, Ohio. Tag	25,274	Mar. 24	74	1721
Dey, Robert. (See Bates and Dey.)				
Diall, Martin N., Terre Haute, Ind. Heater for curling-irons	26,328	Nov. 24	77	1263
Diblin, Tertullus S., Trenton, N. J. Floor mat	25,247	Mar. 10	74	1436
Dickinson, Philemon O., Newark, N. J. Lid for boxes, &c	25,240	Mar. 10	74	1435
Dickinson, Philemon O., Newark, N. J. Pattern for metal stock	25,287	Mar. 24	74	1722
Dickinson, Philemon O., Newark, N. J. Pocket-book, &c	25,600	June 9	75	1697
Dickinson, Philemon O., Newark, N. J. Pocket-book, &c	25,601	June 9	75	1697
Dickinson, Philemon O., Newark, N. J. Handle for knives, &c	25,636	June 16	75	1844
Dickinson, Philemon O., Newark, N. J. Pocket-book, &c	25,620	July 21	76	468
Dickinson, Philemon O., Newark, N. J. Pocket-book, &c	25,621	July 21	76	468
Dickinson, Philemon O., Newark, N. J. Lid for boxes	25,693	Aug. 4	76	779
Dickinson, Philemon O., assignor to Unger Brothers, Newark, N. J. Border for comb-backs	26,270	Nov. 17	77	1113
Dickinson, Philemon O., assignor to Unger Brothers, Newark, N. J. Back for brushes, &c	26,271	Nov. 17	77	1113
Dickinson, Philemon O., assignor to Unger Brothers, Newark, N. J. Back for brushes, &c	26,272	Nov. 17	77	1113
Dickinson, Philemon O., assignor to Unger Brothers, Newark, N. J. Back for brushes, &c	26,273	Nov. 17	77	1113
Dickinson, Philemon O., assignor to Unger Brothers, Newark, N. J. Back and handle for mirrors, &c	26,422	Dec. 22	77	1929
Dietz, Conrad, West Covington, Ky. Casing for washing-machines	25,623	June 9	75	1699
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, New York, N. Y. Casing for heating apparatus	26,181	Oct. 13	77	307
Dixwell, John. (See Wilkinson and Dixwell.)				
Dobbins, Edward T., et al. (See Wipf, Herman, assignor.)				
Dobson, William A., Bridgeport, Conn. Curling-iron holder	25,316	Mar. 31	74	1888
Dock, Herman, Philadelphia, Pa. Illuminated toy	26,021	Sept. 22	76	1846
Dockery, Joseph B., and J. G. Chouteau, St. Louis, Mo. Pipe-swage	25,127	Feb. 4	74	647
Doherty, Robert F., assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Carpet.	25,906	Aug. 4	76	781
Dominick & Haff. (See Crowell, Gilbert L., Jr., assignor.)				
Donahay, Michael E. (See Mishler, Stumpf, and Donahay.)				
Donahay, Samuel, Chicago, Ill. Bridle-holder	25,613	June 9	75	1698
Donahue, John J., and J. H. Sullivan, Worcester, Mass. Game-board	25,349	Apr. 7	75	174
Donlevy, Frank L. (See Mulford, Logan W., assignor.)				
Dorsam, Louis, Millville, N. J. Frame for pictures, &c	25,038	Jan. 7	74	136
Dotzenroth, Henry, assignor to L. W. Vilsack, Pittsburg, Pa. Badge	25,688	June 30	75	2180
Douglass, Walter L., Buffalo, N. Y. Flower-pot holder	26,106	Sept. 29	76	1997
Downs, J. Willis. (See Pierpont, Robert, assignor.)				
Doyle, Zoher, Spring Creek, Mo. Washing-machine frame	26,366	Dec. 1	77	1421
Drew, Anna E., New York, N. Y. Sheller for green peas, &c	26,283	Nov. 17	77	1114
Drew, William C., Brooklyn, N. Y. Clock-front	25,313	Mar. 31	74	1887
Dryfoos & Co., M. H. (See Chatelain, Peter, assignor.)				
Dubinsky, Moses, M. J. Nathan, and M. Eisenberg, Philadelphia, Pa. Hood	25,849	July 28	76	604
Ducheman, Zephiren, Haverhill, Mass. Garment-hanger	25,715	June 30	75	2183
Dueber, John C., Canton, Ohio. Watchcase-lid	25,260	Mar. 24	74	1719
Dueber, John C., Canton, Ohio. Watchcase	26,421	Dec. 22	77	1929
Duerr, Philip J., Buffalo, N. Y. Ornamental chain	26,265	Nov. 17	77	1112
Dunlap & Sons, John. (See Lawton, Thomas L., assignor.)				
Durgin, William B. (See Pestetics, Gynla de, assignor.)				
Durston, David H., Weedsport, N. Y. Price-list standard	26,308	Nov. 17	77	1118
Dutemple, William R., Auburn, R. I. Campaign badge or pin	26,013	Sept. 15	76	1704
Dykeman, Emma J., Rural Grove, N. Y. Baking-tin	26,152	Oct. 6	77	145
E. B. Estes & Sons. (See Edgars, Frederick J., assignor.)				
E. S. Higgins Carpet Company. (See Crowe, Eugene, assignor.)				
Eagle Lock Company. (See Roche, James, assignor.)				
Eagle Pencil Company. (See Kaiser, August, assignor.)				
Eagle Pencil Company. (See Kraus, Samuel, assignor.)				
Eberhart, Ulrich, Newark, N. J. Ram for planing-machines	26,329	Nov. 24	77	1264
Eberle, Philip M., Jacksonville, Fla. Duplex egg-tester	25,804	July 21	76	465
Eckert, Clark, Losantville, Ind. Insole	26,306	Nov. 17	77	1118
Eclipse Stove Company. (See Bump, John C., assignor.)				
Edenborn, William, Chicago, Ill. Fencing-pattern	25,380	Apr. 14	75	338
Edgars, Frederick J., Brooklyn, assignor to E. B. Estes & Sons, Auburn and Farmington, Me., and New York, N. Y. Wooden box	25,642	June 16	75	1845
Edward Miller & Company. (See Hornberger, Louis, assignor.)				
Edward Miller & Company. (See Williams, Frank T., assignor.)				
Egbert, William H., assignor to Turnbull & Company, Newark, N. J. Hearse-body	25,180	Feb. 18	74	956
Eggleston, Lillian A. (See Tappan and Eggleston.)				
Eibach, Hermann A., Rockford, Ill. Toe-clip for bicycles	26,336	Nov. 24	77	1265
Eisenberg, Moses. (See Dubinsky, Nathan, and Eisenberg.)				
Ellis, John, Lynn, Mass. Liquid-filter case	26,029	Sept. 15	76	1706
Elison, Augustus B., St. Louis, Mo. Badge	25,752	July 7	76	154
Elliston, John O., Southampton, N. Y. Paint-brush holder	25,926	Aug. 11	76	955
Eno, Alfred J., assignor to Aladdin Lamp Company, Newark, N. J. Bicycle-lamp	25,422	Apr. 21	75	501
Erichson, Charles A., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Pad-lock case	26,462	Dec. 29	77	2126
Ernst, Maximilian, Cleveland, Ohio. Foot-warmer	26,007	Sept. 8	76	1569
Estabrook, Alanson C., Northampton, Mass. Eyelet	25,796	July 21	76	465
Estes, Webster C., Brooklyn, N. Y. Wooden box	25,535	May 19	75	1195
Esty, William, Laconia, N. H. Sprinkler	26,253	Nov. 10	77	966
Esty, William, Laconia, N. H. Distributer for fire-extinguishers	26,254	Nov. 10	77	966
Esty, William, Laconia, N. H. Yoke for automatic fire-extinguishers	26,255	Nov. 10	77	966
Esty, William, Laconia, N. H. Valve-support	26,256	Nov. 10	77	967

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Ettenheimer, Emanuel, assignor to American Stamping Company, New York, N. Y. Ash-can.....	26,041	Sept. 15	76	1707
Evans, Alfred B., Philadelphia, Pa. Pitcher or similar article.....	25,122	Feb. 4	74	646
Evans, French S., Washington, D. C. Cane head or handle.....	25,851	Aug. 4	76	773
Eyman, Homer E., Lancaster, Ohio. Scarf-rack.....	25,059	Jan. 21	74	368
F. M. Whiting Company. (See Maillot, John W., assignor.)				
Fagan, Maurice E., Philadelphia, Pa. Case for a vending apparatus.....	25,241	Mar. 10	74	1435
Fairbairn, Elijah, and W. Brah, assignors to Milwaukee Gas Stove Company, Milwaukee, Wis. Fireplace-front.....	25,107	Jan. 28	74	490
Fairchild, Hiram H. (See Ostrander and Fairchild.)				
Fairley, Fannie, and E. E. Gunston, Wilkinsburg, Pa. Ash-pan.....	26,151	Oct. 6	77	145
Fallon, William F., Cleveland, Ohio. Car-sealer's tool.....	25,883	Aug. 4	76	777
Farnham, Paulding, assignor to Tiffany & Company, New York, N. Y. Spoon.....	26,212	Oct. 27	77	623
Farrel Foundry and Machine Company. (See Bowen, David R., assignor.)				
Farwell, Fay O., assignor to Adams Company, Dubuque, Iowa. Stovepipe-shelf.....	25,809	July 21	76	466
Farwell, Fay O., assignor to Adams Company, Dubuque, Iowa. Stove-lining.....	26,472	Dec. 29	77	2128
Fauss, Dennis C., New York, N. Y. Button.....	25,205	Mar. 3	74	1266
Fegan, James P., Cambridge, assignor to G. H. Sallaway, Somerville, Mass. Grip-lever.....	25,668	June 23	75	1999
Fegan, James P., Cambridge, assignor to G. H. Sallaway, Somerville, Mass. Grip-lever.....	25,669	June 23	75	1999
Fegan, James P., Cambridge, assignor to G. H. Sallaway, Somerville, Mass. Grip-bracket.....	25,670	June 23	75	1999
Fellman, Edward J. (See Romänder and Fellman.)				
Ferber, Anthony, Buffalo, N. Y. Calendar-stand.....	26,026	Sept. 15	76	1705
Festetics, Gyula de, New York, N. Y., assignor to W. B. Durgin, Concord, N. H. Decorative pattern.....	25,219	Mar. 3	74	1268
Festetics, Gyula de, New York, N. Y., assignor to W. B. Durgin, Concord, N. H. Handle for brushes and similar articles.....	25,251	Mar. 17	74	1582
Field, Charles W., Rockland, Me. Nail-set.....	26,463	Dec. 29	77	2126
Fish, John A., Melrose, Mass. Hot-water heater or boiler.....	25,213	Mar. 3	74	1267
Fiske, John M., New York, N. Y. Stall-floor support.....	26,443	Dec. 22	77	1932
Fitch, John B., assignor to W. & E. T. Fitch Company, New Haven, Conn. Snap-hook.....	26,109	Sept. 29	76	1997
Fitch, William E., Louisville, Ky. Fireplace-front.....	25,420	Apr. 21	75	501
Fitz, Howard W., Chicago, Ill. Toilet-stand.....	25,731	June 30	75	2185
Fitzpatrick, Thomas B., Newton, Mass. Waist.....	25,246	Mar. 10	74	1436
Flesch, Julius A., Chicago, Ill. Sales-counter.....	25,181	Feb. 18	74	957
Flesch, Julius A., Chicago, Ill. Sales-counter.....	25,182	Feb. 18	74	957
Flesch, Julius A., Chicago, Ill. Sales bin or box.....	25,199	Feb. 25	74	1116
Fletcher, Edwin J., assignor to Whiting Manufacturing Company, New York, N. Y. Case or box.....	25,575	June 2	75	1538
Fletcher, Edwin J., assignor to Whiting Manufacturing Company, New York, N. Y. Case or box.....	25,576	June 2	75	1538
Flint, John B., Chelsea, and A. J. Howard, Malden; said Flint assignor to O. E. Lewis, Winthrop, Mass. Nail.....	25,211	Mar. 3	74	1267
Flower City Casket Company. (See Ripson, John D., assignor.)				
Floyd, Roscoe M., Boston, Mass. Watch-plate.....	26,266	Nov. 17	77	1112
Floyd, Thomas E. (See Marsden and Floyd.)				
Folsom, John M. (See Pierce, John F., assignor.)				
Forrester, Charles, Jersey City, N. J., assignor to J. Hoyle, E. Harrison, and A. Kaye, Philadelphia, Pa. Table-cover, &c.....	25,160	Feb. 11	74	801
Forsheim, Joseph, New York, N. Y. Suspender-buckle.....	25,093	Jan. 28	74	487
Foster, Stephen A., Toledo, Ohio. Tag.....	25,819	July 21	76	468
Foster, Theodore W., Providence, R. I. Handle for button-hooks or similar articles.....	25,262	Mar. 24	74	1719
Foster, Theodore W., Providence, R. I. Scissors.....	25,263	Mar. 24	74	1719
Foster, Theodore W., Providence, R. I. Handle for button-hooks or similar articles.....	26,214	Oct. 27	77	623
Foster, Theodore W., Providence, R. I. Metal brush-back, &c.....	26,274	Nov. 17	77	1113
Foster, Theodore W., Providence, R. I. Metal mirror-back, &c.....	26,275	Nov. 17	77	1113
Fowler, Frank T., Chicago, Ill. Bicycle-frame.....	25,078	Jan. 21	74	371
Fowler, William, Jr., New York, N. Y. Pan.....	25,131	Feb. 4	74	647
Fraser, Russell, New York, N. Y. Spool-holder.....	25,859	Aug. 4	76	774
Frasher, Octavia, Pittsburg, Pa. Torch attachment.....	26,200	Oct. 20	77	446
Freese, Etson L., Highwood, N. Y. Easel.....	25,723	June 30	75	2184
Friedenwald, Benj. B. (See Johnston, William T., assignor.)				
Frisbie, Russel, assignor to J. & E. Stevens Company, Cromwell, Conn. Toy bank.....	25,662	June 23	75	1998
Fuerstenberg, Samuel, assignor to J. Wodiska, New York, N. Y. Toothpick-holder.....	25,352	Apr. 7	75	174
Fuller, James W., St. Paul, Minn. Handle for spoons, &c.....	25,169	Feb. 18	74	955
Fuller-Warren Company. (See Cocke, George M., assignor.)				
Fuller-Warren Company. (See Herrick, John W., assignor.)				
Furlong, Thomas, St. Louis, Mo. Shield for bicycle-tires.....	25,459	May 5	75	827
Gamble, George A. (See Norland, Olof A., assignor.)				
Garaghty, Charles F., Bay City, Mich. Campaign-badge.....	26,144	Oct. 6	77	144
Gardner, John, assignor to Winchester Repeating Arms Company, New Haven, Conn. Shell for cartridges.....	25,611	June 9	75	1698
Garland, James A., Jr., Newton, Mass. Game-board.....	25,449	Apr. 28	75	670
Garling, Anna B., Bloom Centre, Ohio. Oven-shelf.....	26,402	Dec. 15	77	1773
Garner, Amariah, Lynchburg, Ohio. Spoon.....	25,168	Feb. 18	74	955
Garrison, Martin M., Syracuse, N. Y. Bicycle-saddle.....	25,620	June 9	75	1699
Gaskill, Alfred, Philadelphia, Pa., assignor to E. Vallens and F. Rothschild, Chicago, Ill. Jar.....	25,617	June 9	75	1698
Gates, Eugene N., Holliston, assignor of two-thirds to W. E. Putney, Fitchburg, Mass., and C. H. Chapman. Bicycle-frame.....	26,263	Nov. 10	77	967
Gates, Philetus W., Chicago, Ill. Frame for rock and ore crushers.....	25,426	Apr. 21	75	502
Geary, Kate, et al., executors. (See Geary, Michael.)				
Geary, Michael, deceased; K. Geary, Oil City, Pa., D. O'Day, New York, N. Y., and J. Seep, Titusville, Pa., executors. Engine-wheel.....	25,367	Apr. 7	75	176
Gedney, Charles F., Brooklyn, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet.....	25,293	Mar. 24	74	1724
Gedney, Charles F., Brooklyn, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet.....	25,371	Apr. 7	75	177
Gedney, Charles F., Brooklyn, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet.....	25,542	May 19	75	1196
Gedney, Charles F., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet.....	25,596	June 2	75	1541
Gedney, Charles F., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet.....	25,597	June 2	75	1541
Gedney, Charles F., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet.....	25,598	June 2	75	1542
Gendron Iron Wheel Company. (See Gendron, Peter, assignor.)				
Gendron, Peter, assignor to Gendron Iron Wheel Company, Toledo, Ohio. Bicycle handle-bar.....	25,065	Jan. 21	74	369
General Electric Company. (See Harthan, Charles E., assignor.)				
General Electric Company. (See Moody, Walter S., assignor.)				
General Electric Company. (See Reist, Henry G., assignor.)				
General Electric Company. (See Shand, Robert, assignor.)				
Gonnerich, Henry W. (See McDowell, Charles E., assignor.)				
George, Herbert T., London, England, assignor to Arnold, Constable & Co., New York, N. Y. Carpet.....	25,227	Mar. 3	74	1270

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Gérard, Emile, Limoges, France. Covered dish.....	26,299	Nov. 17	77	1116
Gerbis, Theodore A., Archbald, Pa. Badge.....	26,420	Dec. 22	77	1929
Gibbs, Lewis, Canton, Ohio. Lawn-rake.....	25,956	Aug. 18	76	1108
Giles, Jason, Indian Orchard, Mass. Hand-wheel for valves.....	25,527	May 19	75	1194
Giles, Julian A., Watertown, N. Y. Oil-guard.....	25,146	Feb. 11	74	799
Gilfillan, Essington N., assignor to Gilfillan Scale and Hardware Company, Chicago, Ill. Scale-frame.....	25,327	Mar. 31	74	1889
Gilfillan Scale and Hardware Company. (See Gilfillan, Essington N., assignor.)				
Gillmore, Elmer W., Warren, Ohio. Bulb for incandescent lamps.....	25,572	June 2	75	1538
Gilmore, James L., Sharpsburg, Iowa. Hog-pen.....	26,228	Oct. 27	77	625
Glasscock, James B., assignor to F. M. Churchman and W. L. Tripp, Wheeling, W. Va. Hand-rubber frame.....	26,468	Dec. 29	77	2127
Gobeillé, Joseph L., Cleveland, Ohio, assignor to I. A. Sheppard & Co., Philadelphia, Pa. Heating-stove.....	25,421	Apr. 21	75	501
Goddard, Harry W., Spencer, Mass. Nail or slug.....	25,799	July 21	76	465
Goessling, William, St. Louis, Mo. Nail-cleaner.....	25,702	June 30	75	2181
Gohlke, Louis, Grand Rapids, Mich., and F. H. Marx, Chicago, Ill. Toy whistle.....	25,470	May 12	75	986
Goldberger, Ignatz, Cleveland, Ohio. Undergarment.....	26,232	Oct. 27	77	626
Goldstein, Julius M., Oneida, N. Y. Wheel-rim.....	26,116	Sept. 29	76	1998
Goltra, Edward F., St. Louis, Mo. Car-truck side frame.....	26,114	Sept. 29	76	1998
Goodhue, Bertram G. (See Updike and Goodhue.)				
Gooding, Josiah C., St. Louis, Mo. Seat.....	25,734	June 30	75	2185
Gooding, Josiah C., St. Louis, Mo. Desk and seat.....	25,735	June 30	75	2185
Gore, Charles. (See Slayton, John W., assignor.)				
Gorham Manufacturing Company. (See Codman, William C., assignor.)				
Gorris, Henry, assignor of one-half to J. N. Hahn, Cleveland, Ohio. Coal-scuttle.....	25,419	Apr. 21	75	501
Graff, Charles D., assignor to Redlich & Co., New York, N. Y. Border for silverware.....	26,195	Oct. 20	77	446
Graff, Charles D., assignor to Redlich & Co., New York, N. Y. Border for silverware.....	26,196	Oct. 20	77	446
Graff, Charles D., assignor to Redlich & Co., New York, N. Y. Back for brushes or similar articles.....	26,216	Oct. 27	77	624
Graham, Edward M., Chicago, Ill. Bicycle-frame.....	26,285	Nov. 17	77	1114
Graham, Malcolm, et al. (See Beardsley, William N., assignor.)				
Grand Rapids Seating Company. (See Peregrine, Seymour W., assignor.)				
Grant, Edgar H., Marshall, Mich. Folding cabinet.....	25,783	July 14	76	329
Graves, John J., assignor to S. S. Jewett & Co., Buffalo, N. Y. Heating-stove.....	25,067	Jan. 21	74	369
Graves, John J., assignor to S. S. Jewett & Co., Buffalo, N. Y. Cooking stove or range.....	26,369	Dec. 1	77	1421
Gray Automatic Telephone Pay Station Company. (See Gray, William, assignor.)				
Gray, William, assignor to Gray Automatic Telephone Pay Station Company, Hartford, Conn. Telephone toll-box.....	25,128	Feb. 4	74	647
Green, John, assignor of one-half to F. C. Mook, St. Louis, Mo. Tongue for mortar-hods.....	25,277	Mar. 24	74	1721
Green, Weston, Chicago, Ill. Diaper.....	25,343	Mar. 31	74	1892
Greene, Ernest, New York, N. Y. Display-stand.....	25,196	Feb. 25	74	1115
Gregerson, Fred O. (See Gregerson, George A. and F. O.)				
Gregerson, George A. and F. O., Rochester, Minn. Neck-yoke hook.....	25,149	Feb. 11	74	800
Gregerson, George A. and F. O., Rochester, Minn. Harness-eye.....	25,710	June 30	75	2182
Grell, Henry J., Johnson's Creek, Wis. Support for carboy-stands.....	26,221	Oct. 27	77	624
Grimes, William A., Sparta, Ga. Ax.....	25,154	Feb. 11	74	800
Grindley, William H., Congleton, England, assignor to W. S. Pitcairn, New York, N. Y. Covered dish.....	26,460	Dec. 29	77	2126
Griswold, Lewis F., Meriden, Conn., assignor to Charles Parker Company, of Connecticut. Piano-chair.....	25,163	Feb. 18	74	957
Groeber, Paul, Rutherford, N. J., assignor to H. M. Birge, Buffalo, N. Y. Wall-paper.....	26,122	Sept. 29	76	1999
Groeber, Paul, Rutherford, N. J., assignor to H. M. Birge, Buffalo, N. Y. Wall-paper.....	26,123	Sept. 29	76	1999
Grollman, Solomon, Chicago, Ill. Piano-casing.....	25,393	Apr. 14	75	340
Groomes, Collin C., Brookland, D. C. Button-badges.....	25,656	June 23	75	1998
Grubbs, Robert M. (See Chisholm, Toliver L., assignor.)				
Guild, Emmons D., Attleborough, Mass. Box-plate for cuff-buttons.....	25,092	Jan. 28	74	487
Gunston, Eleanor E. (See Fairley and Gunston.)				
Gurney, Edward, Toronto, Canada. Heating-stove.....	25,947	Aug. 18	76	1107
Guy, Mark, assignor to J. McClave & Sons, New York, N. Y. Joint-lug for bicycle-frames.....	25,591	June 2	75	1540
Haas, Louis. (See Nehr, Herman F., assignor.)				
Haase, Edward T., St. Louis, Mo. Bottle.....	25,569	June 2	75	1537
Haase, Henry, Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Garment-edging.....	26,189	Oct. 13	77	308
Hackett, Charles W. (See Hackett, Oliver C. and C. W.)				
Hackett, Oliver C. and C. W., Akron, Ohio. Eraser.....	25,137	Feb. 11	74	798
Hadley, George W., Brazil, Ind. Card-holder.....	25,400	Apr. 21	75	498
Hahn, John N. (See Gorris, Henry, assignor.)				
Hall, Edward L., Brooklyn, N. Y. Game-board.....	25,252	Mar. 17	74	1582
Hall, Frederick W., Brooklyn, N. Y. Puzzle box or case.....	25,964	Aug. 18	76	1110
Halladay, Lewis P., Marion, Ind. Clamp for bicycle-handles.....	26,361	Dec. 1	77	1420
Hallowell, William B., Washington, D. C. Fan for sewing-machines.....	26,155	Oct. 6	77	146
Halpin, Thomas P., Chicago, Ill. Badge.....	26,454	Dec. 29	77	2125
Hammack, Martin V., Providence, R. I. Badge-pin.....	26,014	Sept. 15	76	1704
Hammack, Martin V., Providence, R. I. Badge-pin.....	26,015	Sept. 15	76	1704
Hammel, Riglander & Co. (See Blank, Bernard H., assignor.)				
Hammerstein, Oscar, New York, N. Y. Shirt-collar.....	26,304	Nov. 17	77	1117
Hampson, Joseph, Jr., Baltimore, Md. Mantel and hall-rack.....	25,322	Mar. 31	74	1888
Handloser, Thomas V., New York, N. Y. Foot-rest for bicycle-pedals.....	25,487	May 12	75	988
Hanford, Eugene G., Westfield, N. J. Trousers-hanger.....	26,280	Nov. 17	77	1114
Hanington, Alfred W., New York, N. Y. Pillow-case.....	26,417	Dec. 15	77	1776
Hanson, Miles A., Port Washington, Wis. Chair-leg.....	25,255	Mar. 17	74	1583
Harden, William, Jamesport, Mo. Open link.....	26,380	Dec. 8	77	1588
Harris, Charles R., Williamsport, Pa. Buckle-frame.....	25,094	Jan. 28	74	487
Harris, Charles R., Williamsport, Pa. Steam-radiator.....	26,159	Oct. 6	77	146
Harris, Elmer S., Haverhill, Mass. Trimming-knife.....	25,098	Jan. 28	74	488
Harris, Jonathan, Cleveland, Ohio. Fence-fastener.....	25,614	June 9	75	1698
Harris, Jonathan, Cleveland, Ohio. Fence-fastener.....	25,615	June 9	75	1698
Harrison, Alexander, assignor of two-thirds to P. N. Staff and G. L. Newton, Terre Haute, Ind. Badge.....	25,304	Mar. 31	74	1886
Harrison, Edwin, et al. (See Forrester, Charles, assignor.)				
Hart, Charles W., assignor to H. A. Hart, Troy, N. Y. Sheet-metal can.....	26,364	Dec. 1	77	1420
Hart, Edwin, assignor to Waterbury Watch Company, Waterbury, Conn. Cyclometer-casing.....	25,773	July 14	76	328
Hart, Frank B., Lafayette, Ind. Advertising-sign.....	25,448	Apr. 28	75	670

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Hart, Loui. (See Wetherbee, Hiram E., assignor.)				
Harthan, Charles E., Lynn, Mass., assignor to General Electric Company, of New York. Arc-lamp.	26,471	Dec. 29	77	2128
Hartley, Marcellus, <i>et al.</i> (See Beardsley, William N., assignor.)				
Hartzell, George D., Fort Recovery, Ohio. Grave-vault	25,446	Apr. 28	75	669
Harvey, Henry W., Providence, R. I. Badge	25,824	July 21	76	469
Harvey, James W. (See Valiant, Joseph W., assignor.)				
Hasselbring, John, Brooklyn, N. Y. Napkin-ring	25,637	June 16	75	1244
Hatch, Fred G. (See Shriver, Augustus F., assignor.)				
Hansen, Christian H., Trenton, N. J. Mug	25,788	July 21	76	463
Havell, George, assignor to Havell Manufacturing Company, Newark, N. J. Bicycle-lamp body.	26,177	Oct. 13	77	306
Havell Manufacturing Company. (See Havell, George, assignor.)				
Haviland, Charles E., Limoges, France. Dish	25,513	May 19	75	1191
Haviland, Charles E., Limoges, France. Covered dish	25,514	May 19	75	1192
Haviland, Charles E., Limoges, France. Plate	25,515	May 19	75	1192
Haviland, Charles E., Limoges, France. Plate	25,516	May 19	75	1192
Havlin, Frank E., Norwood, Ohio. Bicycle-saddle	25,485	May 12	75	988
Hawkes, Thomas G., Corning, N. Y. Glass vessel or dish	25,386	Apr. 14	75	339
Hawkes, Thomas G., Corning, N. Y. Glass vessel	25,944	Aug. 18	76	1107
Hawkins, Samuel K., New York, N. Y. Scrubbing-brush	26,154	Oct. 6	77	145
Hawthorn, Walter, and T. F. Watson, Woodford, England. Hair-pin	25,407	Apr. 21	75	499
Hayden, Nicholas, and C. F. C. Wurst, St. Paul, Minn. Whiffletree-hook	25,548	May 26	75	1354
Hayden, Peter, Columbus, Ohio. Chain-link	25,631	June 16	75	1244
Heacock Manufacturing Company. (See Steele, George H., assignor.)				
Heald, William E. (See Addison and Heald.)				
Healy, John, New York, N. Y. Box-couch frame	25,040	Jan. 7	74	137
Heath, Frank E., New York, N. Y. Handkerchief, &c.	25,595	June 2	75	1541
Hedges & Co., A. J. (See Obrig, John, assignor.)				
Heggem, Charles O., assignor to Russell & Co., Massillon, Ohio. Steam-engine cylinder	25,526	May 19	75	1193
Held, S. Julien, New York, N. Y. Bottle	25,057	Jan. 21	74	368
Helmer, William, assignor to American Soda-Fountain Company, Boston, Mass. Syrup-can	25,856	Aug. 4	76	774
Henderson, Ames Company (See Abell, Ashley J., assignor.)				
Hendrickson, Winfield. (See Carey, Altman, and Hendrickson.)				
Hennessey, Patrick, Derby, Conn. Necktie-holder	25,771	July 14	76	327
Henrici, William A. E., Chelsea, Mass. Laundry-iron	25,105	Jan. 28	74	489
Henrici, William A. E., Chelsea, Mass. Laundry-iron	25,519	May 19	75	1193
Hensel, Colladay Company. (See Haase, Henry, assignor.)				
Hepsher, David, Carrollton, Mo. Hoe	25,918	Aug. 11	76	954
Herbst, Wendell E., Hartford, Conn. Sled	25,550	May 26	75	1355
Herrick, John W., assignor to Fuller-Warren Company, Milwaukee, Wis. Heating-stove	26,248	Nov. 3	77	805
Hersen, Ernest, New York, N. Y. Puzzle-box	26,164	Oct. 6	77	147
Heskett, John W., Selem, Nebr. Badge	26,170	Oct. 13	77	305
Hess, Hugo G., Cincinnati, Ohio. Casing for indicators	26,426	Dec. 22	77	1930
Hesse, Frank K., assignor to Codman & Shurtleff, Boston, Mass. Toe-clip for bicycles	26,465	Dec. 29	77	2127
Heydebrand and Safety Window Company. (See Heydebrand und der Lasa, Ferdinand C. von, assignor.)				
Heydebrand und der Lasa, Ferdinand C. von, assignor to Heydebrand Safety Window Company, New York, N. Y. Thumb-screw	26,027	Sept. 15	76	1705
Heydrick, Alfred M., South Norwalk, Conn. Exercising-club	26,418	Dec. 15	77	1776
Heyer, Charles E., assignor to Barnhart Brothers & Spindler, Chicago, Ill. Font of printing-type	25,552	May 26	75	1355
Heyman, Julius M., New York, N. Y. Undershirt	25,342	Mar. 31	74	1892
Hickman, Robert, New York, N. Y. Belt-plate	25,937	Aug. 18	76	1106
Hicks, Mary E., <i>et al.</i> (See Brobst, William L., assignor.)				
Higgins, Arthur S., New York, N. Y. Jug	25,387	Apr. 14	75	339
Hill, Joseph B., Philadelphia, Pa., assignor to Imperial Cut Glass Company, of Pennsylvania. Glass dish	26,396	Dec. 15	77	1772
Hill, Lebbeus, Lynn, Mass. Boot or shoe heel	25,187	Feb. 18	74	958
Hill, Lebbeus, Lynn, Mass. Boot or shoe	25,188	Feb. 18	74	958
Hill, Robert E., North East, Pa. Game-board	26,167	Oct. 6	77	147
Hills, George W., Newton, Mass., assignor to Invisible Elevator Company, Newark, N. J. Elevator for shoes	25,242	Mar. 10	74	1436
Hinden, Mathias J., Cleveland, Ohio, assignor to J. King, New York, N. Y. Frame for test-lenses	25,949	Aug. 18	76	1108
Hirsh, Frederick R., New York, N. Y., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Padlock-case	25,174	Feb. 18	74	955
Hirsh, John R., Syracuse, N. Y. Hat-hook	25,506	May 19	75	1191
Hodges, Frederick W. (See Siebert and Hodges.)				
Hoermann, Theodor, Brooklyn, N. Y. Frame for bicycle package-carriers	25,619	June 9	75	1699
Hofheimer, Angelica, Brooklyn, N. Y. Mail-box	25,536	May 19	75	1195
Hofmann, Charles, Chicago, Ill. Clock-frame	25,077	Jan. 21	74	371
Hofmann, Charles, Chicago, Ill. Sign and hat-rack	25,948	Aug. 18	76	1107
Hogan, John J., Middletown, N. Y. Tubular steam-boiler	25,201	Feb. 25	74	1116
Hogg, William J. (See Campbell, Jacob B., assignor.)				
Hogg, William J. (See Parker, Fredric M., assignor.)				
Hohlfelder, Frederick, Cleveland, Ohio. Chaplet	25,303	Mar. 31	74	1826
Holland, Mary C. (See Holland, Timothy, assignor.)				
Holland, Timothy, assignor to M. C. Holland, Chicago, Ill. Radiator	25,975	Aug. 25	76	1268
Holman, William A., Philadelphia, Pa. Mounting for book or album covers	26,231	Oct. 27	77	626
Holmes & Edwards Silver Company. (See Campbell, Ernest W., assignor.)				
Holst, Charles Q., Memphis, Tenn. Stock-book sheet	25,401	Apr. 21	75	498
Holstein, Carl, Chicago, Ill. Chair	25,184	Feb. 18	74	957
Holstein, Carl, Chicago, Ill. Chair	25,197	Feb. 25	74	1115
Homan, Joseph T. (See Leavenworth and Homan.)				
Homan Silver Plate Company. (See Leavenworth and Homan, assignors.)				
Hooper, Charles, Port Norfolk, Va. Kitchen-cabinet	25,326	Mar. 31	74	1889
Hornberger, Louis, Bridgeport, assignor to Edward Miller & Company, Meriden, Conn. Vase for lamps	25,123	Feb. 4	74	646
Hornberger, Louis, Bridgeport, assignor to Edward Miller & Company, Meriden, Conn. Vase for lamps	25,124	Feb. 4	74	646
Hornberger, Louis, Bridgeport, assignor to Edward Miller & Company, Meriden, Conn. Vase for lamps	25,125	Feb. 4	74	646
Hornberger, Louis, Bridgeport, assignor to Edward Miller & Company, Meriden, Conn. Base for lamps	25,141	Feb. 11	74	799
Hornberger, Louis, Bridgeport, assignor to Edward Miller & Company, Meriden, Conn. Base for lamps	25,142	Feb. 11	74	799

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Hornberger, Louis, Bridgeport, assignor to Edward Miller & Company, Meriden, Conn. Base for lamps	25,143	Feb. 11	74	799
Hornberger, Louis, Bridgeport, assignor to Edward Miller & Company, Meriden, Conn. Base for lamps	25,144	Feb. 11	74	799
Hornberger, Louis, Bridgeport, assignor to Edward Miller & Company, Meriden, Conn. Base for lamps	25,145	Feb. 11	74	799
Horsefield, Henry, assignor to W. O. Rowland and A. E. Schmidt, Philadelphia, Pa. Lace curtain	25,344	Mar. 31	74	1892
Horsefield, Henry, assignor to W. O. Rowland and A. E. Schmidt, Philadelphia, Pa. Lace curtain	25,376	Apr. 14	75	338
Horton, Jewett, Philmont, N. Y. Faucet-body	25,977	Aug. 25	76	1268
Horton, Louis R., assignor to J. B. & S. M. Knowles Company, Providence, R. I. Spoon	25,933	Feb. 25	74	1115
Horton, Louis R., assignor to J. B. & S. M. Knowles Company, Providence, R. I. Handle for spoons, &c.	25,853	Aug. 4	76	774
Hotchkiss, Seymour E., Wallingford, Conn. Delivery-spout	25,415	Apr. 21	75	500
Housholder, Addison B., <i>et al.</i> (See Thomas, Stonewall J., assignor.)				
Howard, Arthur J. (See Flint and Howard.)				
Howestoll, Salve N., Brooklyn, N. Y. Table-knife	25,988	Sept. 8	76	1566
Howland, George H., and T. F. Olmsted, Northville, N. Y. Friction-loop for fire-escapes	26,071	Sept. 22	76	1845
Hoyle, John, <i>et al.</i> (See Forrester, Charles, assignor.)				
Hubbard, George M., assignor to W. & E. T. Fitch Company, New Haven, Conn. Snap-hook	26,279	Nov. 17	77	1114
Hueg, Herman F. W., Long Island City, N. Y. Mold for bakers, &c.	25,792	July 21	76	464
Huenefeld, Ernst H., Cincinnati, Ohio. Bake-oven	25,782	July 14	76	329
Hughes, Joseph H. (See Bown and Hughes.)				
Hulbert, Milan H. (See Hulbert, William A. and M. H.)				
Hulbert, William A. and M. H., New York, N. Y. Bicycle-saddle	25,337	Mar. 31	74	1891
Hulbert, William A. and M. H., New York, N. Y. Bicycle-saddle	25,338	Mar. 31	74	1891
Hulbert, William A. and M. H., New York, N. Y. Bicycle-saddle	25,363	Apr. 7	75	176
Hulbert, William A. and M. H., New York, N. Y. Bicycle-saddle	25,364	Apr. 7	75	176
Hulbert, William A. and M. H., New York, N. Y. Bicycle-saddle	25,952	Aug. 18	76	1108
Hunt, John L., <i>et al.</i> (See Lovejoy, Edward L., assignor.)				
Hunter Arms Company. (See Chrisman, Fred F., assignor.)				
Hunter, Hetta E., Washington, D. C. Student's chair	25,074	Jan. 21	74	371
Hunter, Hetta E., Washington, D. C. Student's chair	25,157	Feb. 11	74	801
Hunter, John W., Wheeling, W. Va. Glass vessel	26,062	Sept. 22	76	1843
Hunter, Sylvester H. (See Sherwood and Hunter.)				
Hunter, William D., Elizabethton, Tenn. Coffee-pot	26,300	Nov. 17	77	1117
Hurd, George B., New York, N. Y. Box	25,437	Apr. 28	75	668
Hurd, George B., New York, N. Y. Box	26,025	Sept. 15	76	1705
Husselman, Samuel B., Philadelphia, Pa. Fence-post	25,283	Mar. 24	74	1722
Hutchinson, James E., Washington, D. C., assignor to Westcott-Jewell Company, Seneca Falls, N. Y. Box or holder for blocks, &c.	26,318	Nov. 24	77	1261
Hutchinson, Joseph G., Attleborough, Mass. Cigar and ash receiver	25,121	Feb. 4	74	646
Hutter, Karl, New York, N. Y. Bottle-stopper	25,435	Apr. 28	75	668
Hygienic Wheel Company. (See Travis, Charles L., assignor.)				
Hyman, Mortimer, New York, N. Y. Tooth-brush handle	25,170	Feb. 18	74	955
Ill, Henry, Newark, N. J. Caster-pin	25,521	May 19	75	1193
Ill, Henry, Newark, N. J. Caster-pin	25,522	May 19	75	1193
Ill, Henry, Newark, N. J. Caster-pin	25,567	June 2	75	1537
Isley & Co., S. A. (See Macarthy, Henry, assignor.)				
Imperial Cut Glass Company. (See Hill, Joseph B., assignor.)				
Indianapolis Basket Company. (See Springer, Isaac, assignor.)				
Ingraham, Titus S., Cleveland, Ohio. Advertising-card	26,309	Nov. 17	77	1118
Invisible Elevator Company. (See Hills, George W., assignor.)				
Irving, James A., Columbus, Ohio. Sign-letter	26,078	Sept. 22	76	1846
Isaacs, Jacob, Albany, N. Y. Cigar-holder	25,469	May 12	75	986
Ives, Edward R., Bridgeport, Conn. Toy-cap exploder	25,147	Feb. 11	74	800
Ives, Edward R., Bridgeport, Conn. Toy-cap exploder	25,148	Feb. 11	74	800
Ives, Edward R., Bridgeport, Conn. Toy cannon	25,239	Mar. 10	74	1435
Ives, Edward R., Bridgeport, Conn. Toy-cap exploder	25,275	Mar. 24	74	1721
Ives, Edward R., Bridgeport, Conn. Toy car	25,722	June 30	75	2183
Ives, Frederick A., assignor to Cheshire Manufacturing Company, Cheshire, Conn. Loop for garment-clasps	25,091	Jan. 28	74	487
Ivins, Dietz & Metzger Company. (See Danby, Arthur, assignor.)				
Ivins, Dietz & Metzger Company. (See Poole, Edward, assignor.)				
Ivins, Eugene. (See Casselberry, Frank L., assignor.)				
J. B. & S. M. Knowles Company. (See Horton, Louis R., assignor.)				
J. & E. Stevens Company. (See Frisbie, Russel, assignor.)				
Jack, Fannie L., Chillicothe, Ohio. Handle for pans, &c.	26,401	Dec. 15	77	1773
Jackson, Austin F., Taunton, Mass. Spoon, &c.	25,635	June 16	75	1844
Jackson, Austin F., Taunton, Mass. Handle for spoons, &c.	25,692	June 30	75	2181
Jacoby, Selmar M., New York, N. Y. Presser-bar	25,882	Aug. 4	76	777
James, Cullen H., Los Angeles, Cal. Can	25,665	June 23	75	1999
Jameson, William A., Niagara Falls, N. Y. Handle for forks, &c.	25,408	Apr. 21	75	499
Jamouneau, William H., Newark, assignor to Alvin Manufacturing Company, Jersey City, N. J. Silversmith's stock	25,286	Mar. 24	74	1722
Janney, Reynold, Westborough, Mass. Foot-piece for pedals	26,412	Dec. 15	77	1775
Jenkins, George L., Philadelphia, Pa., assignor to Austin, Nichols & Company, New York, N. Y. Bottle	25,942	Aug. 18	76	1107
Jenkins, George L., Philadelphia, Pa., assignor to Austin, Nichols & Company, New York, N. Y. Bottle	25,943	Aug. 18	76	1107
Jenkins, George L., Philadelphia, Pa., assignor to Austin, Nichols & Company, New York, N. Y. Bottle	26,065	Sept. 22	76	1844
Jennings, Samuel R., South Bend, Ind. Can-opener	25,455	May 5	75	826
Jewett & Co., Sherman S. (See Graves, John J., assignor.)				
Jifkins, Henry. (See Walker and Jifkins.)				
Joetten, Gustav A. J., and J. Mittel, Jr., Chicago, Ill. Frame for vegetable-cutters	25,456	May 5	75	826
Johnson, Elisha M. (See Shroeder, Leo C., assignor.)				
Johnson, Ferdinand M., Philadelphia, Pa. Hat-band	26,209	Oct. 20	77	448
Johnson, Henry, assignor of one-half to Wolverine Manufacturing Company, Detroit, Mich. Table-leg	25,483	May 12	75	987
Johnson, Robert L., Hanley, England. Covered dish	25,385	Apr. 14	75	339
Johnson, Thomas C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Temporary cartridge-holder	26,386	Dec. 8	77	1589
Johnston, Barnet L., Lafayette, Ind. Collar-button	25,697	June 30	75	2181
Johnston, Edgar D., assignor to P. H. & F. M. Roots Company, Connersville, Ind. Head for rotary pumps	25,461	May 5	75	827

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Johnston, William T., Washington, D. C., assignor to B. B. Friedenwald, Baltimore, Md. Bottle-stopper.	26,278	Nov. 17	77	1114
Jones, Chesney L., Ridgewood, N. J. Game-board.	25,816	July 21	76	468
Jones, Edward K., assignor of one-half to T. J. Kern, Portland, Oreg. Inscription-plate.	25,062	Jan. 21	74	369
Jones, Fred B., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Name-plate.	25,173	Feb. 18	74	955
Jones, Zachary T., New York, N. Y. Head or foot board.	25,185	Feb. 18	74	957
Jones, Zachary T., New York, N. Y. Channel-iron.	25,411	Apr. 21	75	500
Jones, Zachary T., New York, N. Y. Channel-iron.	25,412	Apr. 21	75	500
Jones, Zachary T., New York, N. Y. Channel-iron.	25,413	Apr. 21	75	500
Jones, Zachary T., New York, N. Y. Channel-iron.	25,414	Apr. 21	75	500
Joseph T. Ryerson & Sons. (See Butler, Hermon B., assignor.)				
Joyce, Frank I., Dayton, Ohio. Lifting-jack stand.	25,361	Apr. 7	75	175
Judge, John S., Peterborough, Canada. Vaporizer.	25,509	May 19	75	1191
Judkins, William, Peshtigo, Wis. Window-roller bracket.	26,074	Sept. 22	76	1845
Kaemmer, Frederick, Meriden, assignor to Stanley Works, New Britain, Conn. Hinge.	25,356	Apr. 7	75	175
Kahn & Bros., F. & L. (See Kahn, Lazard, assignor.)				
Kahn & Bros., F. & L. (See Kahn and Martin, assignors.)				
Kahn, Lazard, assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Stove-base.	25,108	Jan. 28	74	490
Kahn, Lazard, assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Ash-box for stoves.	25,133	Feb. 4	74	648
Kahn, Lazard, assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Stove door or panel.	25,325	Mar. 31	74	1889
Kahn, Lazard, assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Sad-iron heater.	25,438	Apr. 28	75	668
Kahn, Lazard, and J. Martin, assignors to F. & L. Kahn & Bros., Hamilton, Ohio. Pan.	25,132	Feb. 4	74	648
Kaiser, August, assignor to Eagle Pencil Company, New York, N. Y. Lead-pencil.	25,565	June 2	75	1537
Kaiser, August, assignor to Eagle Pencil Company, New York, N. Y. Lead-pencil.	25,566	June 2	75	1537
Kaiser, August, assignor to Eagle Pencil Company, New York, N. Y. Lead-pencil.	25,606	June 9	75	1697
Kaiser, August, assignor to Eagle Pencil Company, New York, N. Y. Lead-pencil.	25,700	June 30	75	2181
Kamper, William, Brooklyn, N. Y. Game-board.	26,391	Dec. 8	77	1589
Kane, David, Brockton, Mass. Badge.	25,545	May 26	75	1354
Kaufmann, Max L., New York, N. Y. Pipe-ferrule.	26,324	Nov. 24	77	1263
Kaye, Andrew, <i>et al.</i> (See Forrester, Charles, assignor.)				
Kaye, Edward, Monaca, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Shade for incandescent gas-lights.	26,003	Sept. 8	76	1568
Keefe, John M., Camden, N. J. Brush.	26,215	Oct. 27	77	624
Kellogg, William H., Detroit, Mich. Garment-support.	26,021	Sept. 15	76	1705
Kelly, Thomas L., Philadelphia, Pa. Game-board.	26,120	Sept. 29	76	1999
Kelly, William, and O. G. Olson, Seattle, Wash. Fire-hose nozzle.	26,358	Dec. 1	77	1420
Kempshall, Eleazer, Newton, Mass. Button-rod.	25,698	June 30	75	2181
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Eyelet.	25,827	July 21	76	469
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Eyelet.	25,832	July 28	76	602
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Eyelet.	25,833	July 28	76	602
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Eyelet.	25,834	July 28	76	602
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Eyelet.	25,835	July 28	76	602
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Lacing-hook.	25,836	July 28	76	602
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Lacing-hook.	25,837	July 28	76	602
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Eyelet.	25,862	Aug. 4	76	775
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Lacing-hook.	25,863	Aug. 4	76	775
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Lacing-hook.	25,864	Aug. 4	76	775
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Lacing-hook.	25,939	Aug. 18	76	1106
Kennedy, Charles W., Pittsburg, Pa. Stove-lid lifter.	25,764	July 7	76	156
Kennedy, Thomas E. (See King and Kennedy.)				
Kennedy, Thomas E., and E. J. King, assignors to Co-Operative Foundry Company, Rochester, N. Y. Gas-stove.	25,054	Jan. 14	74	265
Kerguelin, Henry de, Little Falls, N. J., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet.	25,653	June 16	75	1847
Kern, Theodore J. (See Jones, Edward K., assignor.)				
Kerngood, Herman, Baltimore, Md. Hook for garment-fasteners.	25,912	Aug. 11	76	953
Kerr, Hugh S., Philadelphia, Pa. Toy.	25,310	Mar. 31	74	1887
King, Edward J. (See Kennedy and King.)				
King, Edward J., and T. R. Kennedy, assignors to Co-Operative Foundry Company, Rochester, N. Y. High shelf for stoves.	25,155	Feb. 11	74	801
King, Julius. (See Hinden, Mathias J., assignor.)				
King, Merritt A., and C. E. Mullin, Mount Pleasant, Pa. Display-stand.	25,923	Aug. 11	76	955
King, Phineas F., assignor of one-half to A. P. O'Hara, Chicago, Ill. Saddle for bicycles.	25,446	May 12	75	988
King, Samuel R., Providence, R. I. Nursing-nipple.	25,708	June 30	75	2182
King, Theophilus, trustee. (See Kempshall, Eleazer, assignor.)				
Kingston, Samuel J., Bridgewater, Mass. Snap-hook.	25,798	July 21	76	465
Kinnear, William R., Columbus, Ohio. Panel for ceilings.	25,886	Aug. 4	76	777
Kinnear, William R., Columbus, Ohio. Ceiling-panel.	25,924	Aug. 11	76	955
Kinnear, William R., Columbus, Ohio. Ceiling-panel.	25,925	Aug. 11	76	955
Kinports, Henry M., Boston, Mass. Chair.	26,207	Oct. 20	77	447
Kipp, Burton E., Philadelphia, Pa. Hinge.	25,663	June 23	75	1999
Kirby, Edward W. (See Martin, James M., assignor.)				
Kirk, Henry C. Jr., Baltimore, Md. Paper-knife.	25,605	June 9	75	1697
Kisch, David, New York, N. Y. Lady's collar.	26,374	Dec. 1	77	1422
Kissinger, Jacob, and E. Law, New York, N. Y. Printer's galley.	25,390	Apr. 14	75	340
Kitselman, Alva L. and D. M., Ridgeville, Ind. Pattern for wire fences.	25,332	Mar. 31	74	1890
Kitselman, Alva L. and D. M., Ridgeville, Ind. Pattern for wire fences.	25,333	Mar. 31	74	1890
Kitselman, Davis M. (See Kitselman, Alva L. and D. M.)				
Klee, William. (See Bridges, Harry M., assignor.)				
Kleiderer, Louis P., Henderson, Ky. Cuff-holder.	25,172	Feb. 18	74	955
Klein, Fredrick W., assignor to Reading Braid Company, Reading, Pa. Braid-cord.	25,817	July 21	76	468
Kline, Edward F., <i>et al.</i> (See Schwechler, John, assignor.)				
Kloman, Theodore W., Bayonne, N. J. Puzzle.	26,317	Nov. 24	77	1261
Knapp, Charles, Brooklyn, N. Y. Ring.	26,392	Dec. 15	77	1772
Knutsen, Chris, Port Townsend, Wash. Guitar.	26,043	Sept. 15	76	1708
Kochs, Theodore A. (See Rollert, Anton J., assignor.)				
Kohler, Frederick E., Canton, Ohio. Rake-head.	25,179	Feb. 18	74	956
Kohler, Frederick E., Canton, Ohio. Lawn-rake.	26,246	Nov. 3	77	804
Kolb, Louis J., Philadelphia, Pa. Bread.	25,934	Aug. 11	76	956
Koons, George W., assignor to I. G. Koons, Philadelphia, Pa. Box.	25,537	May 19	75	1195
Koons, Ida G. (See Koons, George W., assignor.)				
Korn, George W., Chicago, Ill. Pattern for toy rockers.	25,041	Jan. 7	74	137
Korn, George W., Chicago, Ill. Pattern for toy sleds.	25,042	Jan. 7	74	137
Kraus, Samuel, assignor to Eagle Pencil Company, New York, N. Y. Lead-pencil.	26,395	Dec. 15	77	1772
Krieg, John K., New York, N. Y. Press-frame.	25,884	Aug. 4	76	777

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Krieger, George F., Chicago, Ill. Cigar-lighter.....	26,219	Oct. 27	77	624
Kurzenknahe, William, Chicago, Ill. Tap-sole.....	25,757	July 7	76	155
La Bastide, Hippolyte J. M. P., Limoges, France. Covered dish.....	25,639	June 16	75	1844
La Ferté Ida, Detroit, Mich. Plate.....	26,024	Sept. 15	76	1705
Lamotte Thomas A., Philadelphia, Pa. Holder for sharpening-tools.....	26,257	Nov. 10	77	967
Landers Frary & Clark. (See Schmidt, Henry O., assignor.)				
Landers, Frary & Clark. (See Smith, Charles F., assignor.)				
Lane, George. (See Lane, William J. and G.)				
Lane, George, Poughkeepsie, N. Y. Cycle-hanger.....	26,033	Sept. 15	76	1706
Lane, Henry M., Cincinnati, Ohio. Frame for steam-engines.....	26,180	Oct. 13	77	307
Lane, William J. and G., Poughkeepsie, N. Y. Pulley-block.....	26,038	Sept. 15	76	1707
Langenbach, Edward A., Canton, Ohio. Molding-plate.....	26,236	Nov. 3	77	803
Langenbach, Edward A., Canton, Ohio. Molding-plate.....	26,237	Nov. 3	77	803
Langenbach, Edward A., Canton, Ohio. Ceiling-plate.....	26,238	Nov. 3	77	803
Langenbach, Edward A., Canton, Ohio. Ceiling-plate.....	26,239	Nov. 3	77	803
Langenbach, Edward A., Canton, Ohio. Ceiling-plate.....	26,240	Nov. 3	77	803
Langenbach, Edward A., Canton, Ohio. Border-plate.....	26,241	Nov. 3	77	804
Langenbach, Edward A., Canton, Ohio. Border-plate.....	26,242	Nov. 3	77	804
Langenbach, Edward A., Canton, Ohio. Border-plate.....	26,243	Nov. 3	77	804
Langenbach, Edward A., Canton, Ohio. Metallic border-plate.....	26,413	Dec. 15	77	1775
Langenbach, Edward A., Canton, Ohio. Metallic border-plate.....	26,414	Dec. 15	77	1775
Langenbach, Edward A., Canton, Ohio. Metallic ceiling-plate.....	26,446	Dec. 22	77	1933
Langenbach, Edward A., Canton, Ohio. Metallic border-plate.....	26,447	Dec. 22	77	1933
Langton, Joseph F., Waltham, Mass. Savings-bank.....	26,198	Oct. 20	77	446
Larkin, Thomas, Cumbola, Pa. Hand-drill.....	25,955	Aug. 18	76	1108
Latta, Eugene E., Lafayette, Ind. Display-jar.....	26,321	Nov. 24	77	1262
Laubinger, Ernest, Weiden, Germany. Plate.....	25,404	Apr. 21	75	499
Law, Emil. (See Kissinger and Law.)				
Lawton, Charles H., and H. H. Stoner, Wabash, Ind. Sign-post.....	26,079	Sept. 22	76	1846
Lawton, Thomas L., assignor to J. Dunlap & Sons, Philadelphia, Pa. Carpet.....	25,431	Apr. 21	75	503
Leavenworth, Seth H., and J. T. Homan, assignors to Homan Silver Plate Company, Cincinnati, Ohio. Candelabrum.....	26,277	Nov. 17	77	1113
Lederhos, Charles, New York, N. Y. Oil-stove.....	25,462	May 5	75	827
Lederhos, Charles, New York, N. Y. Oil-stove fount.....	25,463	May 5	75	828
Lefferts, Marshall C., New York, N. Y. Comb, &c.....	25,119	Feb. 4	74	646
Lee, James E., Chicago, Ill. Handle-bar head.....	26,466	Dec. 29	77	2127
Lee, James L., Chicago, Ill. Frame for hand cylinder printing-presses.....	26,467	Dec. 29	77	2127
Lee, James L., Chicago, Ill. Printer's wrench.....	26,157	Oct. 6	77	146
Lehman, Joseph H., Philadelphia, Pa. Lantern-body.....	25,064	Jan. 21	74	369
LeMASTER, Charles W., Central City, Nebr. Badge.....	26,016	Sept. 15	76	1704
Lengel, Irvin D., assignor to Packer Cycle Company, Reading, Pa. Crank-axle hanger for bicycles.....	26,341	Nov. 24	77	1265
Lennox, Levi J., Detroit, Mich. Heating-stove.....	26,368	Dec. 1	77	1421
Leonard, Annie, Lawrence, Kans. Culinary utensil.....	25,726	June 30	75	2124
Lester, Andrew E., New York, N. Y. Puzzle box or case.....	25,840	July 28	76	606
Levy, Nathan. (See Smith, William C., assignor.)				
Lewis, Isaac. (See Booth and Lewis.)				
Lewis, Orlando E. (See Flint and Howard, assignors.)				
Libbey Glass Company. (See Anderson, William C., assignor.)				
Lightner, Charles E., San Antonio, Tex. Overalls.....	25,932	Aug. 11	76	956
Lindgren, Carl A., Stockholm, Sweden. Bottle.....	25,941	Aug. 18	76	1106
Lines, John, assignor to Scovill Manufacturing Company, Waterbury, Conn. Gas-burner.....	26,036	Sept. 15	76	1707
Lingg, Francis J., Philadelphia, Pa. Finger-ring.....	25,689	June 30	75	2180
Lingg, Francis J., Philadelphia, Pa. Finger-ring.....	25,910	Aug. 11	76	953
Lipe, Rufus J., Delta, Colo. Weeder.....	25,667	June 23	75	1999
Litchfield, Joseph M., San Francisco, Cal. Button.....	25,114	Feb. 4	74	645
Litchfield, Joseph M., San Francisco, Cal. Button.....	25,115	Feb. 4	74	645
Livemore, Ernest N., Port Townsend, Wash. Violin.....	26,423	Dec. 22	77	1930
Livemore, Ernest N., Port Townsend, Wash. Mandolin.....	26,424	Dec. 22	77	1930
Livor, Henry M., New York, N. Y. Brush-core.....	25,120	Feb. 4	74	646
Lobdell, Edward J., Marietta, Ohio. Wheel-rim.....	25,425	Apr. 21	75	502
Locke, Fred M., Victor, N. Y. Insulator.....	26,323	Nov. 24	77	1262
Lockett, Charles H. (See Velázquez, Carlos M., assignor.)				
Lockrey, George W., et al. (See Schwechler, John, assignor.)				
Loeser, Daniel A., Sag Harbor, N. Y. Back for brushes, &c.....	26,146	Oct. 6	77	144
Long, Mary A., Akron, Ohio. Work-stand.....	25,484	May 12	75	928
Longstaff, George W., Bridgeport, Conn. Cabinet for sewing-machines.....	25,104	Jan. 28	74	489
Longyear, J. M. (See McKenney, Franklin S., assignor.)				
Loomis, Edgar J., et al. (See Lovejoy, Edward L., assignor.)				
Loucks, Zachariah K. (See Payne, William H., assignor.)				
Louer, Marcus A., I. S. Reis, and C. Conradt, Philadelphia, Pa. Cigar-lighter stand.....	25,766	July 7	76	156
Lovejoy, Edward L., assignor to E. J. Loomis and J. L. Hunt, Cambridge, N. Y. Broom-holder.....	25,176	Feb. 18	74	956
Lowell Manufacturing Company. (See Sauer, Emil G., assignor.)				
Lowrey, William W., Richmond county, N. Y. Bottle.....	25,388	Apr. 14	75	340
Lucking, Fred, Philadelphia, Pa., assignor to National Society of the Children of the American Revolution. Badge.....	25,452	May 5	75	826
Lunken, Edmund H., assignor to Lunkenheimer Company, Cincinnati, Ohio. Valve-casing.....	25,720	June 30	75	2123
Lunkenheimer Company. (See Lunken, Edmund H., assignor.)				
Lyons, Charles, Jr. (See Bradshaw, Silas S., assignor.)				
Mabee, Frean A., St. Louis, Mo., and J. F. Zetzsche, Richview, Ill. Meat-pan.....	25,106	Jan. 28	74	490
MacKenzie, George W., Beaver, Pa. Badge.....	26,233	Oct. 27	77	626
Macarthy, Henry, New York, assignor to S. A. Hsley & Co., Brooklyn, N. Y. Metal box.....	25,097	Jan. 28	74	428
Macdonald, Andrew A., Lenox, Mass. Box.....	26,298	Nov. 17	77	1116
Mack, Abram E., New Haven, Conn. Check-bit.....	26,281	Nov. 17	77	1114
Mackin, Frank M., Baltimore, Md. Water-supply fixture.....	25,458	May 5	75	826
Maddock Pottery Company. (See May, Charles A., assignor.)				
Maguire, Francis L. (See Welsh, Henry J., assignor.)				
Maillet, John W., assignor to F. M. Whiting Company, North Attleborough, Mass. Spoon.....	25,259	Mar. 24	74	1718
Maillet, John W., assignor to F. M. Whiting Company, North Attleborough, Mass. Handle for spoons, &c.....	26,268	Nov. 17	77	1112
Malloy, William F., Pittsburg, Pa. Frame for mirrors, &c.....	25,039	Jan. 7	74	137
Mannstaedt, Louis, Kalk, Germany. Window-rail.....	25,442	Apr. 28	75	669
Marchetti, Giulio, Halifax, England, assignor to Arnold, Constable & Co., New York, N. Y. Carpet.....	25,465	May 5	75	828
Marietta Glass Company. (See Butler and Zeigler, assignors.)				
Mark, Jacob, New York, N. Y. Skylight-tile.....	25,331	Mar. 31	74	1890

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Marsden, William N., and T. E. Floyd, Amsterdam, N. Y. Glove-pattern	25,980	Sept. 1	76	1413
Marsh, Riverius, New Brunswick, N. J. Lamp-chimney	25,511	May 19	75	1191
Marshall, Edward S., assignor to Missouri Railway Equipment Company, St. Louis, Mo. Journal-box lid	26,469	Dec. 29	77	2127
Marshall, Edward S., St. Louis, Mo., assignor to Western Railway Equipment Company, East St. Louis, Ill. Draft-lug and draw-bar follower	26,470	Dec. 29	77	2127
Marshall, Jesse B., and L. Y. McClure, Wooster, Ohio. Hitching-post	25,069	Jan. 21	74	370
Martin, Frank M., <i>et al.</i> (See Schwechler, John, assignor.)				
Martin, Jacob. (See Kahn and Martin.)				
Martin, James M., assignor of one-half to E. W. Kirby, Knoxville, Tenn. Pattern for wire fabric	26,235	Nov. 3	77	803
Marx, Frederick H. (See Goblke and Marx.)				
Mason & Co., E. T. (See Yokozuka Shintaro, assignor.)				
Mason & Mason Company. (See Moore, Amos G., assignor.)				
Matthes, Percy E., Philadelphia, Pa. Bicycle-alarm	25,880	Aug. 4	76	777
Mathews, William A., Gratis, Ohio. Body or back for pencil-cases	25,315	Mar. 31	74	1887
Maxam, F. H. (See Walton, Charles W., assignor.)				
May, Anna K., Philadelphia, Pa. Carpet	26,046	Sept. 15	76	1708
May, Anna K., Philadelphia, Pa. Carpet	26,047	Sept. 15	76	1708
May, Anna K., Philadelphia, Pa. Carpet	26,048	Sept. 15	76	1708
May, Anna K., Philadelphia, Pa. Carpet	26,049	Sept. 15	76	1708
May, Anna K., Philadelphia, Pa. Carpet	26,050	Sept. 15	76	1708
May, Anna K., Philadelphia, Pa. Carpet	26,051	Sept. 15	76	1709
May, Anna K., Philadelphia, Pa. Carpet	26,052	Sept. 15	76	1709
May, Anna K., Philadelphia, Pa. Carpet	26,053	Sept. 15	76	1709
May, Anna K., Philadelphia, Pa. Carpet	26,054	Sept. 15	76	1709
May, Anna K., Philadelphia, Pa. Carpet	26,055	Sept. 15	76	1709
May, Anna K., assignor to McCallum & McCallum, Philadelphia, Pa. Carpet	25,294	Mar. 24	74	1724
May, Charles A., assignor to Maddock Pottery Company, Trenton, N. J. Ewer	25,790	July 21	76	464
May, Charles A., assignor to Maddock Pottery Company, Trenton, N. J. Bowl	25,791	July 21	76	464
Mayer, Max, New York, N. Y. Mouthpiece for pipes	25,772	July 14	76	327
Maynard, Frederick T., assignor to Detroit Lawn Mower Company, Detroit, Mich. Frame for lawnmowers	26,286	Nov. 17	77	1114
McArthur, Frederick A., Springfield, Mo. Angle-cock for air-brake pipes	26,441	Dec. 22	77	1932
McCallum & McCallum. (See May, Anna K., assignor.)				
McCallum & McCallum. (See Reddie, Archibald F., assignor.)				
McCallum & McCallum. (See Rose, Arthur M., assignor.)				
McCauley, Charles H., Baltimore, Md. Pail or bucket	25,727	June 30	75	2184
McClave & Sons, John. (See Guy, Mark, assignor.)				
McClure, Lewis Y. (See Marshall and McClure.)				
McCounel, William P., Beaver, Pa. Knife or scraper	26,019	Sept. 15	76	1704
McDonald, Thomas H., Philadelphia, Pa., and E. S. Bachrach, New York, N. Y. Display-hook	25,865	Aug. 4	76	775
McDowell, Charles E., assignor of one-half to H. W. Gennerich, New York, N. Y. Casing for vending-machines	25,649	June 16	75	1846
McElroy, Bernard I., Providence, R. I. Button	26,143	Oct. 6	77	144
McElroy, James F., Albany, N. Y. Casing for electric radiators	25,593	June 2	75	1541
McIntosh, George T., Cleveland, Ohio. Name-plate for velocipedes	26,385	Dec. 8	77	1559
McKaig, Eddy T., Chicago, Ill. Metal bed end	25,996	Sept. 8	76	1566
McKee, Clarence W., Phoenix, Ariz. Ter. Inhaler	25,858	Aug. 4	76	774
McKenney, Franklin S., Detroit, assignor of one-half to J. M. Longyear, Marquette, Mich. Fastener	25,138	Feb. 11	74	798
McKenney, Franklin S., Detroit, assignor of one-half to J. M. Longyear, Marquette, Mich. Button-fastening	25,206	Mar. 3	74	1266
McKenney, Franklin S., Detroit, assignor of one-half to J. M. Longyear, Marquette, Mich. Setting-die	26,076	Sept. 22	76	1845
McKenney, Franklin S., Detroit, assignor of one-half to J. M. Longyear, Marquette, Mich. Setting-die	26,077	Sept. 22	76	1846
McKenzie, Jennie F., Providence, R. I. Table	26,448	Dec. 22	77	1933
McMahon, James B., Boston, Mass. Muff	25,189	Feb. 18	74	958
Measure, Walter. (See Sidwell, Arthur, assignor.)				
Moier, Henry, New York, N. Y. Nursing-nipple	26,377	Dec. 8	77	1587
Neilink, Charles F., Toledo, assignor to A. L. Moore Company, Cleveland, Ohio. Thimble for bicycle-fork ends	26,360	Dec. 1	77	1420
Meinecke, Christian V., New York, N. Y. Bottle	25,471	May 12	75	966
Mergenthaler, Mario H., Albany, N. Y. Fastening-tab	25,436	Apr. 28	75	668
Meriden Cutlery Company. (See Snow, Charles, assignor.)				
Merriam, Lyman W., assignor of one-half to G. O. Allen, Fitchburg, Mass. Bottle	25,207	Mar. 3	74	1266
Merritt, Mortimer G., assignor to Rome Metallic Bed Company, Rome, N. Y. Bedstead	25,929	Aug. 11	76	956
Merritt, Mortimer G., assignor to Rome Metallic Bed Company, Rome, N. Y. Bedstead	26,449	Dec. 22	77	1933
Merritt, Mortimer G., assignor to Rome Metallic Bed Company, Rome, N. Y. Bedstead	26,450	Dec. 22	77	1933
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company, of Massachusetts. Rug	25,933	Aug. 11	76	956
Mesinger Bicycle Saddle Company. (See Mesinger, Frederick, assignor.)				
Mesinger, Frederick. (See Mesinger, Henry and F.)				
Mesinger, Frederick, assignor to Mesinger Bicycle Saddle Company, New York, N. Y. Bicycle-saddle	26,343	Nov. 24	77	1266
Mesinger, Frederick, assignor to Mesinger Bicycle Saddle Company, New York, N. Y. Bicycle-saddle	26,344	Nov. 24	77	1266
Mesinger, Henry and F., New York, N. Y. Bicycle-saddle	25,423	Apr. 21	75	501
Metz, Charles H., Waltham, Mass. Pedal-shaft	25,336	Mar. 31	74	1891
Metz, Charles H., Waltham, Mass. Pedal foot-plate	25,441	Apr. 28	75	669
Michels, William A., Beaver, Iowa. Hog-rack	26,001	Sept. 8	76	1567
Miller, Conrad, Washington, D. C. Clasp	25,507	May 19	75	1191
Miller, George, Baltimore, Md. Box	26,218	Oct. 27	77	624
Miller, George, Baltimore, Md. Box	26,314	Nov. 24	77	1261
Miller, George, Baltimore, Md. Box	26,315	Nov. 24	77	1261
Miller, Nelson A., New York, N. Y. Box-trimming	26,296	Nov. 17	77	1116
Miller, Oliver A., Brockton, Mass. Ironing-tool	26,040	Sept. 15	76	1707
Miller, William H., Brooklyn, N. Y. Hammock	25,736	June 30	75	2186
Miller, William H., Brooklyn, N. Y. Hammock	25,737	June 30	75	2186
Miller, William H., Brooklyn, N. Y. Hammock	25,738	June 30	75	2186
Miliken, Foster, New York, N. Y. Frame for drilling-machines	26,287	Nov. 17	77	1115
Miliken, Foster, New York, N. Y. Frame for drilling-machines	26,288	Nov. 17	77	1115
Milwaukee Gas Stove Company. (See Fairbairn and Brah, assignors.)				
Mishler, Joseph H., F. B. Stumpf, and M. E. Donahay, Eureka, Ill. Badge	26,455	Dec. 29	77	2125

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Missouri Railway Equipment Company. (See Marshall, Edward S., assignor.)				
Mitchell, Joseph, Jersey City, N. J. Redeflector for annular burners	25,321	Mar. 31	74	1888
Mitchell, Walter M., Evanston, Ill. Display-stand	26,322	Nov. 24	77	1262
Mittel, John, Jr. (See Joetten and Mittel.)				
Moody, Walter S., Lynn, Mass., assignor to General Electric Company, of New York. Transformer-case	25,762	July 7	76	156
Mook, F. C. (See Green, John, assignor.)				
Moore, Amos G., Chicago, Ill., assignor to Mason & Mason Company, of Illinois. Fork and crown for velocipedes	26,411	Dec. 15	77	1775
Moore Brothers Company. (See Yard, John S., assignor.)				
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Alphabet.	26,428	Dec. 22	77	1930
Moore Electrical Company. (See Moore, Daniel M., assignor.)				
Moore, Ira C. and C. F. Trott, Waterbury, Conn. Grave-marker	26,182	Oct. 13	77	307
Moore, John T., New York, N. Y. Skirt-retainer	25,118	Feb. 4	74	646
Morgan, Fred W., Chicago, Ill. Cement-kettle	25,765	July 7	76	156
Morris, Edmund, Michigan City, Ind. Cane fabric	25,340	Mar. 31	74	1891
Morris, Edmund, Michigan City, Ind. Cane fabric	25,341	Mar. 31	74	1891
Morris, Edmund, Michigan City, Ind. Cane fabric	25,677	June 23	75	2001
Morris, Edmund, Michigan City, Ind. Cane fabric	25,678	June 23	75	2001
Morris, Edmund, Michigan City, Ind. Cane fabric	25,679	June 23	75	2001
Morris, John T., Baltimore, Md. Cane-head	25,604	June 9	75	1697
Morse, Williams & Company. (See Bates, Francis A., assignor.)				
Morse, Williams & Company. (See Rebmann, Godfrey R., assignor.)				
Morton, Seth H., Lake Ann, Mich. Antirattler	25,460	May 5	75	827
Moskowitz, Morris, Newark, N. J., assignor to National Electric Car Lighting Company, of West Virginia. Casing for dynamos	25,529	May 19	75	1194
Mowry, Theodore J., and C. B. Rosenburgh, Rome, N. Y. Hame	25,214	Mar. 3	74	1267
Moyer, Harvey A., Syracuse, N. Y. Sleigh	25,135	Feb. 4	74	648
Mueller, Henry F., New Orleans, La. Cotton-tie buckle	25,563	June 2	75	1537
Mueller, Henry F., New Orleans, La. Cotton-tie buckle	25,861	Aug. 4	76	774
Muhr, Philip, Philadelphia, Pa. Silversmith's stock or ornament	25,769	July 14	76	327
Mulford, Logan W., assignor of one-half to F. L. Donlevy, Philadelphia, Pa. Bicycle-support	26,000	Sept. 8	76	1567
Mullin, Charles E. (See King and Mullin.)				
Mullins, William H., Salem, Ohio. Pleasure-boat	25,159	Feb. 11	74	801
Mundell, James, Philadelphia, Pa. Gong-striker cap	25,881	Aug. 4	76	777
Munro, Andrew A., Flushing, N. Y. Seat for bicycles	26,069	Sept. 22	76	1844
Murphy, Robert W., New York, N. Y. Handle-bar	26,340	Nov. 24	77	1265
Murphy, William R., et al. (See Schwechler, John, assignor.)				
Myers, Clarence J., Middletown, Pa. Game-board	26,166	Oct. 6	77	147
Myers, Phineas B., Brooklyn, N. Y. Paper box	26,297	Nov. 17	77	1116
Nadall, Berne, assignor to Barnhart Brothers & Spindler, Chicago, Ill. Font of printing-type	25,524	May 19	75	1193
Nadall, Berne, assignor to Barnhart Brothers & Spindler, Chicago, Ill. Font of type ornaments	25,740	June 30	75	2126
Nadall, Berne, assignor to Barnhart Brothers & Spindler, Chicago, Ill. Font of type	25,741	June 30	75	2126
Nash, Philip F., et al. (See Schwechler, John, assignor.)				
Nathan, Max J. (See Dubinsky, Nathan, and Eisenberg.)				
National Electric Car Lighting Company. (See Moskowitz, Morris, assignor.)				
National Electrical Manufacturing Company. (See Noves, Joseph G., assignor.)				
National Malleable Castings Company. (See Case, William, assignor.)				
National Society of the Children of the American Revolution. (See Lucking, Fred, assignor.)				
Neff, Henry, New Washington, Pa. Nail-set	25,308	Mar. 31	74	1886
Nehr, Herman F., Shelton, Conn., assignor to L. Haas, New York, N. Y. Advertising sign-case	25,359	Apr. 7	75	175
Neil, John B., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	25,295	Mar. 24	74	1724
Neil, John B., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	25,372	Apr. 7	75	177
Neil, John B., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	25,373	Apr. 7	75	177
Neil, John B., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	25,374	Apr. 7	75	177
Neil, John B., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	25,599	June 2	75	1542
Nelson, Edwin H., Detroit, Mich. Bottle	25,402	Apr. 21	75	499
Nelson, Edwin H., Detroit, Mich. Bottle	25,403	Apr. 21	75	499
Neabitt, John, Columbus, Ohio. Bicycle-stand	25,878	Aug. 4	76	776
Neubert, Franklin G., assignor to Scovill Manufacturing Company, Waterbury, Conn. Handle for bicycle-brushes	25,775	July 14	76	328
Neumeyer, Horace F., Macungie, Pa., and J. F. Young, Niagara Falls, N. Y. Lawn-sprinkler body	26,205	Oct. 20	77	447
Newell, Darius E., New York, N. Y. Pulley	25,718	June 30	75	2123
Newell, Maurice L., Denver, Colo. Sad-iron holder	26,330	Nov. 24	77	1264
Newton, George L., et al. (See Harrison, Alexander, assignor.)				
Nichols, Jean, Denver, Colo. Seat for commodore, &c.	26,365	Dec. 1	77	1420
Nicholson, Samuel M., et al., administrators. (See Nicholson, William T.)				
Nicholson, Stephen, et al., administrators. (See Nicholson, William T.)				
Nicholson, William T., deceased; S. and S. M. Nicholson, Providence, R. I., administrators. File-handle	25,410	Apr. 21	75	500
Niklaus, Edward G., Madison, Ind. Button	25,090	Jan. 28	74	427
Nicolai, Ludwig. (See Saltzkorn and Nicolai.)				
Noble, Howard C., assignor to North & Judd Manufacturing Company, New Britain, Conn. Heel-protector	26,108	Sept. 29	76	1997
Norland, Olof A., assignor of one-half to G. A. Gamble, Cedar Run, Pa. Clasp	25,826	July 21	76	469
Norman, Robert C., Melbourne, Victoria. Game-board	26,390	Dec. 8	77	1589
North & Judd Manufacturing Company. (See Noble, Howard C., assignor.)				
Novelty Manufacturing Company. (See Boeck, Charles H., assignor.)				
Noyes, Joseph G., assignor to National Electrical Manufacturing Company, Milford, Conn. Bracket	25,868	Aug. 4	76	775
Noyes, Pierre B., Niagara Falls, assignor to Oneida Community, Limited, Kenwood, N. Y. Spoon, &c.	25,558	June 2	75	1536
Noyes, Pierre B., Niagara Falls, assignor to Oneida Community, Limited, Kenwood, N. Y. Spoon	25,633	June 16	75	1844
Numan, Christie M., Canton, Ohio. Curtain-tack	26,260	Nov. 10	77	967
O. B. North & Company. (See Smith, Charles H., assignor.)				
O'Day, Daniel, et al., executors. (See Geary, Michael.)				
O'Hara, Alexander P. (See King, Phineas F., assignor.)				
Obrig, John, Newark, N. J., assignor to A. J. Hedges & Co., New York, N. Y. Metal slide for wearing-apparel	25,351	Apr. 7	75	174
Oehley, Frederick M., Yonkers, N. Y. Badge	26,375	Dec. 8	77	1587
Oehrlie, Franklin W., Philadelphia, Pa. Portière-rope	26,303	Nov. 17	77	1117
Ohnemus, Anton, Quincy, Ill. Bottom plate for stoves	26,037	Sept. 15	76	1707
Ohnemus, Anton, Quincy, Ill. Heating-stove	26,474	Dec. 29	77	2128
Oliver, Thomas A., Bramcote, England. Lace-pattern	25,379	Apr. 14	75	338

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Olmsted, Timothy F. (See Howland and Olmsted.)				
Olsen, Antoney M., Valley City, N. D. Heating-drum	25,200	Feb. 25	74	1116
Olson, Olaf G. (See Kelly and Olson.)				
One Minute Churn Company. (See Sanders, William, assignor.)				
Oneida Community. (See Noyes, Pierre B., assignor.)				
Orner, Ellis F., Gowen City, Pa. Plant-protector	25,490	May 12	75	989
Osborn, David P., Norwalk, Conn. Marking-gage	25,357	Apr. 7	75	175
Osborne, Charles, assignor to Whiting Manufacturing Company, New York, N. Y. Handle for spoons, &c	25,433	Apr. 28	75	668
Osborne, Charles, assignor to Whiting Manufacturing Company, New York, N. Y. Spoon-handle, &c	25,559	June 2	75	1536
Osborne, Charles, assignor to Whiting Manufacturing Company, New York, N. Y. Border for silverware	25,938	Aug. 18	76	1106
Ostrander, Ora, and H. H. Fairchild, Grand Rapids, Mich. Kitchen-cabinet	25,080	Jan. 21	74	372
Oxley & Enos Manufacturing Company. (See Watkins, Howard E., assignor.)				
P. H. & F. M. Roots Company. (See Johnston, Edgar D., assignor.)				
P. H. & F. M. Roots Company. (See Wainwright, William W., assignor.)				
Pabor, Martin V. B. Fredericktown, Mo. Rack	25,439	Apr. 28	75	668
Packer Cycle Company. (See Lengel, Irvin D., assignor.)				
Pairpoint Manufacturing Company. (See Bremer, Max, assignor.)				
Pairpoint Manufacturing Company. (See Cleff, Ernest, assignor.)				
Palmer, Isaac E., Middletown, Conn. Hammock	25,110	Jan. 28	74	490
Palmer, Isaac E., Middletown, Conn. Hammock	25,111	Jan. 28	74	490
Palmer, Isaac E., Middletown, Conn. Hammock	25,112	Jan. 28	74	490
Palmer, Isaac E., Middletown, Conn. Hammock	25,377	Apr. 14	75	338
Palmer, Isaac E., Middletown, Conn. Hammock	25,625	June 9	75	1700
Palmer, Isaac E., Middletown, Conn. Hammock	25,966	Aug. 18	76	1110
Palmer, Isaac E., Middletown, Conn. Hammock	26,011	Sept. 8	76	1570
Palmer, Isaac E., Middletown, Conn. Hammock-support	26,258	Nov. 10	77	967
Palmer, Theodore J., Hackensack, N. J. Chair	26,185	Oct. 13	77	307
Palmetto Fibre Company. (See Robinson, John K., assignor.)				
Palmetto Fibre Company. (See Young, McClintock, assignor.)				
Park, William R., Taunton, and B. T. Williston, Somerville, Mass. Nozzle	26,028	Sept. 15	76	1706
Parker, Fredric M., assignor to W. J. Hogg, Worcester, Mass. Carpet	25,226	Mar. 3	74	1270
Parker, Fredric M., assignor to W. J. Hogg, Worcester, Mass. Carpet	25,248	Mar. 10	74	1436
Parker, Fredric M., assignor to W. J. Hogg, Worcester, Mass. Carpet	25,345	Mar. 31	74	1892
Parker, Fredric M., assignor to W. J. Hogg, Worcester, Mass. Carpet	25,451	Apr. 28	75	670
Parker, Fredric M., assignor to W. J. Hogg, Worcester, Mass. Carpet	25,630	June 9	75	1700
Parker, Fredric M., assignor to W. J. Hogg, Worcester, Mass. Carpet	25,680	June 23	75	2001
Parker, Fredric M., assignor to W. J. Hogg, Worcester, Mass. Carpet	25,907	Aug. 4	76	781
Parker, Fredric M., assignor to W. J. Hogg, Worcester, Mass. Carpet	25,967	Aug. 18	76	1110
Parks, George W., Providence, R. I. Cuff-button	26,102	Sept. 29	76	1997
Parton, Henry W., assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	25,904	Aug. 4	76	780
Parton, Henry W., assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	25,905	Aug. 4	76	780
Pass, James, and A. P. Seymour, Syracuse, N. Y. Socket for incandescent lights	26,002	Sept. 8	76	1568
Patitz, Albert, assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Base for lamps	25,871	Aug. 4	76	775
Patitz, Albert, assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Base for lamps	25,872	Aug. 4	76	776
Patitz, Albert, assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Base for lamps	25,873	Aug. 4	76	776
Patitz, Albert, assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Base for lamps	25,874	Aug. 4	76	776
Patitz, Albert, assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Lamp-fount holder	25,875	Aug. 4	76	776
Fatten, Francis J., New York, N. Y. Dice	25,701	June 30	75	2181
Patterson, William S., Homestead, Pa. Rail-splice	26,404	Dec. 15	77	1773
Payne, William H., Camden, N. J., assignor to Z. K. Loucks, Philadelphia, Pa. Bottle	25,707	June 30	75	2182
Peabody, Henry O., Boston, Mass. Shoulder-rest for violins	26,220	Oct. 27	77	624
Peabody, Willie E., Essex, Conn. Glove-holder	25,538	May 19	75	1195
Peck Bros. & Company. (See Totham, James, assignor.)				
Peck, Edward M., Flushing, N. Y. Puzzle box or case	25,963	Aug. 18	76	1110
Peck, Stow & Wilcox Company. (See Ross, Martin, assignor.)				
Pendergast, Patrick H., Syracuse, N. Y. Bidet and foot-bath	26,118	Sept. 29	76	1998
Pendergast, Patrick H., Syracuse, N. Y. Bidet and foot bath	26,331	Nov. 24	77	1264
Pennycook, James G., assignor to Prismatic Glass Company of Toronto, Limited, Toronto, Canada.				
Vault-light	25,573	June 2	75	1538
Pepper, William H., and A. T. L. Davis, Laconia, N. H. Pattern for knit fabric	25,492	May 12	75	989
Pepper, William H., and A. T. L. Davis, Laconia, N. H. Pattern for knit fabric	25,493	May 12	75	989
Peregrine, Seymour W., assignor to Grand Rapids Seating Company, Grand Rapids, Mich. School seat and desk	25,073	Jan. 21	74	371
Perky, Henry D., Worcester, Mass. Cereal cup	25,318	Mar. 31	74	1888
Peterkin, John, Brooklyn, N. Y. Puzzle-box	26,163	Oct. 6	77	146
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	25,902	Aug. 4	76	780
Pia, Peter F., New York, N. Y. Carriage-body	25,592	June 2	75	1541
Pierce, John F., assignor of one-half to J. M. Folsom, Elizabethton, Tenn. Eaves-trough hanger	26,175	Oct. 13	77	306
Pierce, Washington W., Huntsville, Ala. Button	25,655	June 23	75	1998
Pierpont, Robert, assignor to J. W. Downs, New Haven, Conn. Sewing-machine frame	25,585	June 2	75	1540
Pigg, Wallace B., Calhoun, Mo. Kitchen-cabinet	26,416	Dec. 15	77	1775
Pinkerman, James, Columbus, Ohio. Hoof-hook	25,866	Aug. 4	76	775
Pitcairn, William S. (See Grindley, William H., assignor.)				
Pitt, William R., New Rochelle, N. Y. Marker for bicycle-routes	25,673	June 23	75	2000
Place, James F., Montclair, N. J., and E. D. Terry, Brooklyn, N. Y. Bicycle-lamp	25,440	Apr. 28	75	669
Plant, John B., Philadelphia, Pa. Shoe-sole	25,594	June 2	75	1541
Plumley, Mary E. D., Washington, D. C. Campaign-cap	25,987	Sept. 8	76	1566
Pneumatic Tyre Company. (See Welch, Charles K., assignor.)				
Pollock, Charles V., New York, N. Y. Rubber bag	25,430	Apr. 21	75	502
Poole, Edward, assignor to Ivins, Dietz & Metzger Company, Philadelphia, Pa. Carpet	25,682	June 23	75	2002
Poole, Edward, assignor to Ivins, Dietz & Metzger Company, Philadelphia, Pa. Carpet	25,683	June 23	75	2002
Porter Brothers & Co. (See Comstock, Clark S., assignor.)				
Potter, Anthony U., and F. R. Dane, Tampa, Fla. Spoon	25,346	Apr. 7	75	173
Prager, Saul, New York, N. Y. Brooch or pin	25,632	June 16	75	1844
Pratt, Andrew. (See Rose and Pratt.)				
Pratt, Charles T., Clayville, N. Y. Slip-nipple	25,709	June 30	75	2182
Pretat, Frederick E., assignor to Rogers & Hamilton Company, Waterbury, Conn. Handle for spoons	26,269	Nov. 17	77	1112
Preuss, Carl L. M., Leipsic, Germany. Easter-card	25,381	Apr. 14	75	338
Price, Samuel F. (See Clark and Price.)				
Pringle, Alice N., Preston, Canada. Painter's cabinet	26,332	Nov. 24	77	1264
Prismatic Glass Company of Toronto. (See Pennycook, James G., assignor.)				
Pritchard, Albert R., Rochester, N. Y. Water-kettle	25,324	Mar. 31	74	1889

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Pritchard, Albert R., Rochester, N. Y. Handle	25,409	Apr. 21	75	499
Probola, Adam, Cleveland, Ohio. Clothes-hamper	25,158	Feb. 11	74	801
Putney, W. E., <i>et al.</i> (See Gates, Eugene N., assignor.)				
R. Wallace & Sons Manufacturing Company. (See Wallace, Henry L., assignor.)				
Rae, Thomas, New Canaan, Conn. Metal bracket	25,586	June 2	75	1540
Rafalovitz, Paul, New York, N. Y. Game-board	25,624	June 9	75	1699
Rankin, Thomas L., assignor to Abram Cox Stove Company, Philadelphia, Pa. Heating-stove	25,447	Apr. 28	75	669
Raymond, Frederick C., New York, N. Y. Hook for garment-fasteners	25,699	June 30	75	2181
Raymond, Freeborn F., 2d, Newton, Mass. Ball member for fasteners for gloves	25,117	Feb. 4	74	646
Read, Edward, Cambridge, assignor to William Read & Sons, Boston, Mass. Name-plate for bicycles	25,043	Jan. 7	74	137
Read, Orrin B., Charlotte, Vt. Currycomb and card	26,334	Nov. 24	77	1264
Reading Braid Company. (See Klein, Fredrick W., assignor.)				
Rebmann, Godfrey R., Philadelphia, Pa., assignor to Morse, Williams & Company, of Pennsylvania.				
Elevator-guide	26,289	Nov. 17	77	1115
Reddie, Archibald F., Philadelphia, Pa. Carpet	25,432	Apr. 21	75	503
Reddie, Archibald F., assignor to McCallum & McCallum, Philadelphia, Pa. Carpet	25,296	Mar. 24	74	1724
Reddie, Archibald F., assignor to McCallum & McCallum, Philadelphia, Pa. Carpet	25,297	Mar. 24	74	1724
Reddie, Archibald F., assignor to McCallum & McCallum, Philadelphia, Pa. Carpet	25,298	Mar. 24	74	1725
Reddie, Archibald F., assignor to McCallum & McCallum, Philadelphia, Pa. Carpet	25,299	Mar. 24	74	1725
Reddie, Archibald F., assignor to McCallum & McCallum, Philadelphia, Pa. Carpet	25,300	Mar. 24	74	1725
Reddie, Archibald F., assignor to McCallum & McCallum, Philadelphia, Pa. Carpet	25,301	Mar. 24	74	1725
Reddie, Archibald F., assignor to McCallum & McCallum, Philadelphia, Pa. Carpet	25,464	May 5	75	828
Redheffer, William H., Jr., assignor of two-thirds to R. Rodgers and F. Briggs, Philadelphia, Pa. Game-board	25,900	Aug. 4	76	780
Redlich & Co. (See Graff, Charles D., assignor.)				
Redlinger, Michael, assignor to Arcade Manufacturing Company, Freeport, Ill. Frame for cork-extractors	25,607	June 9	75	1697
Rehlin, Charles, Allegheny, Pa. Badge	25,687	June 30	75	2180
Reis, Ira S. (See Louer, Reis, and Conradt.)				
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company, of New York. Armature-spider	25,528	May 19	75	1194
Reno, Howard, Trinidad, Colo. Can-opener blade	25,264	Mar. 24	74	1719
Renziehausen, Frederick C., and H. Schuetz, Jr., Pittsburg, Pa. Bottle	25,056	Jan. 21	74	368
Reynolds, Charles F., Toledo, Ohio. Buckle	25,860	Aug. 4	76	774
Reynolds, Frank B., Providence, R. I. Advertising-card	25,399	Apr. 21	75	498
Rhind, Frank, S. G. Stoddard, and G. W. Baldwin, assignors to Bridgeport Brass Company, Bridgeport, Conn. Lamp-holder	25,353	Apr. 7	75	174
Rice, Bernard, New York, N. Y. Belt-pin	25,770	July 14	76	327
Rice & Hutchins. (See Stephens, Howard M., assignor.)				
Rich, Adolphus W., Milwaukee, Wis. Boot	25,930	Aug. 11	76	956
Richards, Willard F., Buffalo, N. Y. Brake-beam	25,443	Apr. 28	75	669
Richardson, Willis S., Newark, N. J. Watch-crown	25,696	June 30	75	2181
Richarz, J. Peter, <i>et al.</i> (See Danforth, Cyrus L., assignor.)				
Ripley, Alfred J., Long Branch, N. J. Picture-frame	26,348	Dec. 1	77	1418
Ripson, John D., assignor to Flower City Casket Company, Rochester, N. Y. Casket	25,498	May 12	75	990
Ritter, Claude A., Covington, Ky. Collar	25,539	May 19	75	1195
Roberts, Charles E., Oak Park, Ill. Dust-cap	25,828	July 21	76	469
Robinson, Charles T., Pine Bluff, Ark. Cradle	25,675	June 23	75	2000
Robinson, Frederick, assignor to H. Schadewald, Philadelphia, Pa. Bedquilt	25,291	Mar. 24	74	1723
Robinson, John K., Chicago, Ill. Brush	25,466	May 5	75	828
Robinson, John K., Chicago, Ill., assignor to Palmetto Fibre Company, of Illinois. Brush	25,694	Aug. 4	76	779
Roche, James, assignor to Eagle Lock Company, Terryville, Conn. Padlock	25,664	June 23	75	1999
Rockwell, Frederick C., Hartford, Conn. Handle-bar for bicycles	25,953	Aug. 18	76	1108
Rockwell, George, Meriden, Conn. Handle for spoons, &c	25,693	June 30	75	2181
Rodgers, Robert, <i>et al.</i> (See Redheffer, William H., Jr., assignor.)				
Rogers, Corinna T., Ansonia, Conn. Pin-tray	26,217	Oct. 27	77	624
Rogers, Ethan, Ballston, N. Y. Hatchet	25,358	Apr. 7	75	175
Rogers & Hamilton Company. (See Pretat, Frederick E., assignor.)				
Rollert, Anton J., assignor to T. A. Kochs, Chicago, Ill. Mirror-case	25,928	Aug. 11	76	955
Rome Hame Company. (See Rosenburgh, Chester B., assignor.)				
Rome Metallic Bed Company. (See Merritt, Mortimer G., assignor.)				
Romünder, William, and E. J. Fellman, Milwaukee, Wis. Separable hinge	26,224	Oct. 27	77	625
Rose, Arthur M., Yonkers, N. Y. Carpet	26,056	Sept. 15	76	1709
Rose, Arthur M., Yonkers, N. Y. Carpet	26,057	Sept. 15	76	1709
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	25,046	Jan. 7	74	137
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	25,257	Mar. 17	74	1583
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	25,258	Mar. 17	74	1583
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	25,370	Apr. 7	75	177
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	25,541	May 19	75	1196
Rose, Arthur M., Yonkers, N. Y., assignor to W. & J. Sloane, of New York. Carpet	25,231	Mar. 3	74	1271
Rose, Arthur M., Yonkers, N. Y., assignor to W. & J. Sloane, of New York. Carpet	25,232	Mar. 3	74	1271
Rose, Arthur M., Yonkers, N. Y., assignor to W. & J. Sloane, of New York. Carpet	25,233	Mar. 3	74	1271
Rose, Arthur M., Yonkers, N. Y., assignor to W. & J. Sloane, of New York. Carpet	25,234	Mar. 3	74	1271
Rose, Arthur M., Yonkers, N. Y., assignor to McCallum & McCallum, Philadelphia, Pa. Carpet	25,369	Apr. 7	75	177
Rose, Newton A., and A. Pratt, Fitchburg, Mass. Dust-pan	25,666	June 23	75	1999
Rosenburgh, Chester B. (See Mowry and Rosenburgh.)				
Rosenburgh, Chester B., assignor of one-half to Rome Hame Company, Rome, N. Y. Hame-staple	25,968	Aug. 18	76	1110
Rosenstein, Albert, Lancaster, Pa. Cane or umbrella handle	26,213	Oct. 27	77	623
Rosenthal, Herman, New York, N. Y. Collar	26,313	Nov. 24	77	1261
Ross, Martin, Buffalo, N. Y., assignor to Peck, Stow & Wilcox Company, Southington, Conn. Turning-machine roller	25,779	July 14	76	328
Rothert, Anna M., New York, N. Y. Book-mark	25,703	June 30	75	2181
Rothschild, Frederick, <i>et al.</i> (See Gaskill, Alfred, assignor.)				
Rowland, William O., <i>et al.</i> (See Horsefield, Henry, assignor.)				
Royce, Thomas H., Brooklyn, assignor to B. Altman, New York, N. Y. Skirt-pattern	25,190	Feb. 18	74	958
Royce, Thomas H., Brooklyn, assignor to B. Altman, New York, N. Y. Pattern for bicycle-garments	25,191	Feb. 18	74	958
Rubin, Max, New York, N. Y. Belt-clip	25,434	Apr. 28	75	668
Russell & Co. (See Heggem, Charles O., assignor.)				
S. S. White Dental Manufacturing Company. (See Browne, Arthur W., assignor.)				
Saalfeld, Arthur J., Brooklyn, N. Y. Book-cover	25,704	June 30	75	2181
Saalfeld, Arthur J., Brooklyn, N. Y. Book-cover	25,822	July 21	76	468
Sadler, Frank H., Attleborough, Mass. Jewelry-tray	26,459	Dec. 29	77	2126

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Safety Car Heating and Lighting Company. (See Dixon, Robert M., assignor.)				
Sager, James H., Rochester, N. Y. Toe-clip for bicycles	25,801	July 21	76	465
Sallaway, George H. (See Fegan, James P., assignor.)				
Saltzkorn, Emil, and L. Nicolai, Dresden, Germany. Box-strip	25,580	June 2	75	1539
Saltzkorn, Emil, and L. Nicolai, Dresden, Germany. Mat.	25,652	June 16	75	1847
Sanders, James E., Jersey City, N. J. Chocolate-mold	26,008	Sept. 8	76	1569
Sanders, James M., Nevin, Ohio. Thinning-tool for cotton, &c	26,333	Nov. 24	77	1264
Sanders, William, assignor to One Minute Churn Company, St. Louis, Mo. Churn-frame	25,584	June 2	75	1539
Sanford & Sons, Stephen. (See Bunel, Alfred, assignor.)				
Sanford & Sons, Stephen. (See Kerguelin, Henry de, assignor.)				
Sanford & Sons, Stephen. (See Stewart, Nelson S., assignor.)				
Sassenhoff, Ernesto, New York, N. Y. Price-card holder	26,461	Dec. 29	77	2126
Sauer, Emil G., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, of Massachusetts.				
Carpet				
Sauer, Emil G., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, of Massachusetts.	25,192	Feb. 18	74	958
Carpet				
Saxon, George, Openshaw, England. Frame for forging-machines.	25,249	Mar. 10	74	1436
Sayers, William A., Cincinnati, Ohio. Seat for vehicles	26,440	Dec. 22	77	1932
Schadewald, Henry. (See Robinson, Frederick, assignor.)	25,339	Mar. 31	74	1891
Scharles Brothers. (See Scharles, Max B., assignor.)				
Scharles, Max B., New York, N. Y., assignor to Scharles Brothers. Frame for toy sand-mills	26,325	Nov. 24	77	1263
Scherer, Joseph, Buffalo, N. Y. Radiator	26,388	Dec. 8	77	1589
Scheuber, August W., assignor to S. Zinn, New York, N. Y. Frame for pocket-books	25,278	Mar. 24	74	1721
Scheuer, Ralph, New York, N. Y. Belt-buckle	26,193	Oct. 20	77	446
Schiess, Emilie F., New York, N. Y. Tape-measure	25,973	Aug. 25	76	1268
Schlechter, Gustavus A., Reading, Pa. Badge	25,244	Mar. 10	74	1436
Schlechter, Gustavus A., Reading, Pa. Button	25,768	July 14	76	327
Schmidt, Albert E., et al. (See Horsefield, Henry, assignor.)				
Schmidt, Henry O., New York, N. Y., assignor to Landers, Frary & Clark, New Britain, Conn.				
Ferrule				
Schmidt, Henry O., New York, N. Y., assignor to Landers, Frary & Clark, New Britain, Conn.	25,267	Mar. 24	74	1719
Ferrule				
Schmidt, Henry O., New York, N. Y., assignor to Landers, Frary & Clark, New Britain, Conn.	25,268	Mar. 24	74	1720
Cap for cutlery-handles				
Schmidt, Henry O., New York, N. Y., assignor to Landers, Frary & Clark, New Britain, Conn.	25,269	Mar. 24	74	1720
Cap for cutlery-handles				
Schmidt, John D., New York, N. Y. Puzzle-box	25,270	Mar. 24	74	1720
Schneider, Henry, Tottenville, N. Y. Puzzle-box	26,165	Oct. 6	77	147
Schofield, Albert B., Brooklyn, N. Y. Button	26,229	Oct. 27	77	625
Schondelmeier, Charles T., Brooklyn, N. Y. Bottle-stopper bulb	25,468	May 12	75	986
Schrader, George H. F., New York, N. Y. Tire-valve cap	26,064	Sept. 22	76	1844
Schratwieser, Jacob, Brooklyn, N. Y. Metallic lath	25,774	July 14	76	328
Schraubstadter, Carl, Jr., St. Louis, Mo. Font of type	25,525	May 19	75	1193
Schraubstadter, William A., St. Louis, Mo. Font of printing-type	25,899	Aug. 4	76	780
Schriver, Oliver P., Newport, Ky. Fence-wire ratchet-frame	25,389	Apr. 14	75	340
Schuetz, Henry, Jr. (See Renziehausen and Schuetz.)	26,222	Oct. 27	77	624
Schulz, Isidor, New York, N. Y. Game-board	25,311	Mar. 31	74	1887
Schwartz, James M., New York, N. Y. Game-board	26,186	Oct. 13	77	308
Schwechler, John, assignor of seven-eighths to P. F. Nash, G. W. Lockrey, G. Davis, W. R. Murphy, F. A. Braerman, Philadelphia, Pa., F. M. Martin, Ventnor, and E. F. Kline, Atlantic City, N. J. Paving-block	25,334	Mar. 31	74	1890
Scott, Edward W., assignor to Watson & Newell Company, Attleborough, Mass. Spoon, &c	25,690	June 30	75	2180
Scott, Stewart, et al. (See Danforth, Cyrus L., assignor.)				
Scovill Manufacturing Company. (See Blinn, Joseph S., assignor.)				
Scovill Manufacturing Company. (See Lines, John, assignor.)				
Scovill Manufacturing Company. (See Neubert, Franklin G., assignor.)				
Seaman, Benjamin S., Canton, Ohio. Support for saddle-seats	26,384	Dec. 8	77	1588
Searby, William M., San Francisco, Cal. Bed-pan	25,728	June 30	75	2185
Sears, Henry C., Boston, Mass. Carriage-body	26,347	Nov. 24	77	1266
Seep, Joseph, et al., executors. (See Geary, Michael.)				
Seiberling, John F., Akron, Ohio. Rubber-tire material	26,115	Sept. 29	76	1998
Selkirk, Alexander A., St. Louis, Mo. Voting-booth	26,227	Oct. 27	77	625
Sellers, Alice B., Pittsburg, Pa. Plate, &c	25,208	Mar. 3	74	1267
Semel, George, New York, N. Y. Bedstead	26,415	Dec. 15	77	1775
Sessler, Arnold, New York, N. Y. Stocking	26,305	Nov. 17	77	1117
Settles, Otto L., Argentine, Kans. Tie and scarf holder	26,194	Oct. 20	77	446
Severance, Horace B., Lansing, Mich. Hoop-Ing	26,202	Oct. 20	77	447
Sexton, Samuel B., Jr. (See Ambrose, Edward, assignor.)				
Seymour, Albert P. (See Pass and Seymour.)				
Shand, Robert, Lynn, Mass., assignor to General Electric Company, of New York. Case for electrical instruments	25,549	May 26	75	1354
Shaw, Arthur E., Philadelphia, Pa. Street-lamp	25,976	Aug. 25	76	1268
Shaw & Kaiser. (See Shaw, Ora D., assignor.)				
Shaw, Ora D., Everett, assignor to Shaw & Kaiser, Boston, Mass. Cap	25,235	Mar. 3	74	1272
Shaw, William B., Brooklyn, N. Y. Hassock	25,823	July 21	76	468
Shepard, John J., Darlington, S. C. Corset-case	26,294	Nov. 17	77	1116
Sheppard & Co., Isaac A. (See Ambrose, Edward, assignor.)				
Sheppard & Co., Isaac A. (See Gobeille, Joseph L., assignor.)				
Sheppard & Co., Isaac A. (See Whitman, John F., assignor.)				
Sherer, Samuel J., Chicago, Ill. Display-counter	25,328	Mar. 31	74	1889
Sherwood, Charles K., Brooklyn, N. Y. Bottle	25,048	Jan. 14	74	264
Sherwood, John P., and S. H. Hunter, New Brighton, Pa. Packing-jar	25,166	Feb. 11	74	802
Ship, Ida K., Ypsilanti, Mich. Casket	25,445	Apr. 28	75	669
Shipp, Joseph F., Chattanooga, Tenn. Badge	25,767	July 14	76	327
Shriver, Augustus F., assignor to himself and F. G. Hatch, Newcastle, Cal. Spoon	25,852	Aug. 4	76	774
Shroeder, Leo C., assignor of one-half to E. M. Johnson, Olean, N. Y. Flour-sack	25,961	Aug. 18	76	1109
Shuman, Abraham, Boston, Mass. Button	25,136	Feb. 11	74	798
Sibley, James L., Marietta, Ga. Badge	25,657	June 23	75	1998
Sickels, Richard J., Arlington, N. J. Frame for mirrors and the like	25,076	Jan. 21	74	371
Sidwell, Arthur, Waltham, Mass. Tread-piece for bicycle-pedals	26,337	Nov. 24	77	1265
Sidwell, Arthur, Waltham, assignor to W. Measure, Needham, Mass. Tread-piece for bicycle-pedals				
Siebert, Henry A., Detroit, Mich. Loop-radiator	25,424	Apr. 21	75	501
Siebert, Henry A., and F. W. Hodges, Detroit, Mich. Radiator-loop	26,203	Oct. 20	77	447
	26,247	Nov. 3	77	804

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Sill Stove Works. (See Beattie, Herbert W., assignor.)				
Sill Stove Works. (See Clunies, Arthur B., assignor.)				
Simon, Wadyh, New York, N. Y. Pipe	25,546	May 26	75	1354
Simons Bro. & Co. (See Weihman, Henry A., assignor.)				
Simpson, Quintus L., Palmer, Ill. Stay for wire fences	25,885	Aug. 4	76	777
Sitterly, Wesley E., Auburn, N. Y. Chopping-knife blade	26,282	Nov. 17	77	1114
Switzky, Charles, New York, N. Y. Refrigerating-case	25,068	Jan. 21	74	370
Skelly, George A., and A. M. Anderson, Oregon, Wis. Badge	25,245	Mar. 10	74	1436
Slaffer, Coroden J., assignor of one-half to W. B. Croft, Medina, Ohio. Toy bank	25,815	July 21	76	467
Slater, James, New York, N. Y. Paper-cutter	25,116	Feb. 4	74	645
Slaymaker-Barry Company. (See Troast, William F., assignor.)				
Slayton, John W., assignor of one-half to C. Gore, Salem, Ohio. Scissors-sharpener frame or block	25,126	Feb. 4	74	647
Sloane, W. & J. (See Rose, Arthur M., assignor.)				
Slocumb, Edwin P., Wilmington, Del. Game-board	25,312	Mar. 31	74	1887
Small, Abraham. (See Woodard, Alvin N., assignor.)				
Smalley, Albert G., Chelsea, Mass. Fruit-jar	25,354	Apr. 7	75	174
Smalley, Albert G., Chelsea, Mass. Fruit-jar	25,355	Apr. 7	75	174
Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Knife-handle, &c.	25,560	June 2	75	1536
Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Knife-handle	25,561	June 2	75	1536
Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Knife-handle, &c.	25,562	June 2	75	1536
Smith, Charles H., Newfield, N. J. Trowel	26,204	Oct. 20	77	447
Smith, Charles H., assignor to O. B. North & Company, New Haven, Conn. Snap-hook	26,356	Dec. 1	77	1419
Smith, Charles L., Brooklyn, N. Y. Metal heel	25,995	Sept. 8	76	1566
Smith, Charles W., Oak Park, Ill. Curtain-pole bracket	25,271	Mar. 24	74	1720
Smith, Charles W., Oak Park, Ill. Curtain-pole bracket	25,272	Mar. 24	74	1720
Smith, Charles W., Oak Park, Ill. Curtain-pole bracket	25,273	Mar. 24	74	1720
Smith, De Wane B., Utica, N. Y. Feed-cutter knife	25,777	July 14	76	328
Smith, Edward S., Waterbury, Conn. Tobacco-pipe mounting	26,354	Dec. 1	77	1419
Smith, Edwin F. and F. A., Union City, Conn. Garment-hook	26,259	Nov. 10	77	967
Smith, Ezra W. (See Stansbury, George F., assignor.)				
Smith, Frank A. (See Smith, Edwin F. and F. A.)				
Smith, Harry W., Worcester, Mass. Woven fabric	26,045	Sept. 15	76	1708
Smith, Henry A., Atlanta, Ga. Badge	25,467	May 12	75	986
Smith, Ira B., assignor to Bristol Brass and Clock Company, Bristol, Conn. Spoon	25,502	May 19	75	1190
Smith, Mathias T., Boston, Mass. Campaign-helmet	25,850	Aug. 4	76	773
Smith, Oberlin, Bridgeton, N. J. Gage	25,719	June 30	75	2183
Smith, Robert H., Washington, D. C. Safety wick-tube	26,176	Oct. 13	77	306
Smith, Thomas N., assignor of one-half to W. A. Symington, Independence, Mo. Hose-reel frame	26,359	Dec. 1	77	1420
Smith, William C., assignor to N. Levy, New York, N. Y. Frame for bicycle-saddles	25,648	June 16	75	1846
Snow, Charles, assignor to Meriden Cutlery Company, Meriden, Conn. Table-knife	25,320	Mar. 31	74	1888
Snyder, Edward L., Brooklyn, N. Y. Soap dish or holder	26,352	Dec. 1	77	1419
Solon, Thomas J., Sedalia, Mo. Last	25,892	Aug. 4	76	778
Somerville, Joseph H., Menominee, Mich. Game-board	25,651	June 16	75	1847
Sommer, John L., Newark, N. J. Button-hook	25,602	June 9	75	1697
Sommer, William L., New York, N. Y. Bagatelle-board	26,187	Oct. 13	77	308
Southwick, Albert A., Providence, R. I. Dish	26,397	Dec. 15	77	1772
Sparger, James H., Mount Airy, N. C. Block or body of plug-tobacco	25,959	Aug. 18	76	1109
Sperry, William C. B., New York, N. Y. Parasol or like article	25,368	Apr. 7	75	177
Spencer, John S., New York, N. Y. Eyeglass-case	26,394	Dec. 15	77	1772
Spilka, Charles, New York, N. Y. Display-box	26,119	Sept. 20	76	1990
Springer, Isaac, assignor to Indianapolis Basket Company, Indianapolis, Ind. Box	25,962	Aug. 18	76	1109
Spurgin, Nicholas, Ottawa, Ill. Roofing-tile	25,531	May 19	75	1194
Staff, Peter N., et al. (See Harrison, Alexander, assignor.)				
Stafford, Andrew L., Bar Harbor, Me. Vehicle-body	25,759	July 7	76	155
Staib, Gustav, Tompkinsville, N. Y. Base for metal clamps	25,051	Jan. 14	74	264
Stanley, Frank F., et al. trustees. (See Willson, Charles H., assignor.)				
Stanley Rule and Level Company. (See Traut, Justus A., assignor.)				
Stanley Works. (See Corscaden, Thomas, assignor.)				
Stanley Works. (See Kaemmer, Frederick, assignor.)				
Stansbury, George F., Weedsport, assignor of one-half to E. W. Smith, Albany, N. Y. Key for clamp-buckles	25,800	July 21	76	465
Stark, George, Bridgeport, Conn. Fence-rail support	25,397	Apr. 14	75	341
Starrett, Laro S., Athol, Mass. Plumb and level frame	25,392	Apr. 14	75	340
Steadman, George H., Passaic, N. J. Sponge-cup	25,755	July 7	76	155
Steam Gauge and Lantern Company. (See Wright, Frederick K., assignor.)				
Steele, George H., assignor to Heacock Manufacturing Company, Gloversville, N. Y. Egg-beater	26,438	Dec. 22	77	1932
Steffens, Emil, New York, N. Y. Pattern for cigar-boxes	25,288	Mar. 24	74	1723
Steffens, Emil, New York, N. Y. Pattern for cigar-boxes	25,289	Mar. 24	74	1723
Stein, Nicholas, Philadelphia, Pa. Frame for pictures, &c.	26,276	Nov. 17	77	1113
Steinbrenner, Andrew G., St. Louis, Mo., assignor to Western Railway Equipment Company, East St. Louis, Ill. Draft-lug and draw-bar follower	25,957	Aug. 18	76	1108
Steinhauser, George R., St. Louis, Mo. Lamp	25,945	Aug. 18	76	1107
Stephens, Howard M., assignor to Rice & Hutchins, Incorporated, Boston, Mass. Shoe	26,307	Nov. 17	77	1118
Steuer, Joseph, Chicago, Ill. Soap-holder	25,729	June 30	75	2185
Stevens, Philip, Toledo, Ohio. Sign-letter	25,156	Feb. 11	74	801
Stevenson, Walter S., Philadelphia, Pa. Stove-grate	26,473	Dec. 29	77	2128
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,061	Jan. 21	74	369
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,088	Jan. 21	74	373
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,089	Jan. 21	74	373
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,164	Feb. 11	74	802
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,165	Feb. 11	74	802
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,228	Mar. 3	74	1270
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,627	June 9	75	1700
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,628	June 9	75	1700
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,629	June 9	75	1700
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,684	June 23	75	2002
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,744	June 30	75	2187
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,745	June 30	75	2187
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,746	June 30	75	2187
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,747	June 30	75	2187
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,748	June 30	75	2187
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,749	June 30	75	2187
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,750	June 30	75	2187
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpet	25,751	June 30	75	2187

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Stoddard, Samuel G. (See Rhind, Stoddard, and Baldwin.)				
Stoll, Albert A., Louisville, Ky. Water-pillow	25,786	July 14	76	329
Stone, James, Aurora, Ill. Corset	25,931	Aug. 11	76	956
Stone, Richard F., Indianapolis, Ind. Badge	26,376	Dec. 8	77	1587
Stoner, Hiram H. (See Lawton and Stoner.)				
Stophlet, Samuel, Kansas City, Mo. Puzzle-sheet	26,009	Sept. 8	76	1569
Stopper, Michael, Cincinnati, Ohio. Breastpin	25,825	July 21	76	469
Strang, Lew K., Gloucester, Mass. Bread-kneader	25,167	Feb. 11	74	802
Straus & Sons, L. (See Davies, Benjamin, assignor.)				
Stubner, Herrmann, Carlton Hill, N. J. Mat.	25,787	July 14	76	329
Studebaker, John M., South Bend, Ind. Collar for axle-skeins	26,223	Oct. 27	77	625
Stumpf, Frank B. (See Mishler, Stumpf, and Donahay.)				
Stuparich, Paul J., San Francisco, Cal. Photographic card-mount	26,427	Dec. 22	77	1930
Sturdy, Frederic E., assignor to J. F. Sturdy's Sons, Attleborough, Mass. Watch-chain	25,557	June 2	75	1536
Sturdy's Sons, J. F. (See Sturdy, Frederic E., assignor.)				
Sturges, Lee, Elmhurst, Ill. Bicycle-frame	25,999	Sept. 8	76	1567
Sullivan, John H. (See Donahue and Sullivan.)				
Suter, Albert P., New York, N. Y. Hair ornament	26,172	Oct. 13	77	305
Swan, Henry C., Oshkosh, Wis. Shank for vehicle-steps	25,103	Jan. 28	74	489
Swan, Henry C., Oshkosh, Wis. Fifth-wheel	25,760	July 7	76	156
Sweeney, Mary, Allegheny, Pa. Sad-iron	26,301	Nov. 17	77	1117
Sweet, Leonard W., New York, N. Y. Table-vessel	25,139	Feb. 11	74	798
Sweet, Lewis T. (See Bell, Arthur F., assignor.)				
Sykes, Joshua W., Detroit, Mich. Communion-service tray	26,061	Sept. 22	76	1843
Symington, William A. (See Smith, Thomas N., assignor.)				
Taber, Winfield H., Boston, Mass. Corner-block for mattress-frames	26,070	Sept. 22	76	1845
Taber, Winfield H., Boston, Mass. Corner-block for mattress-frames	26,244	Nov. 3	77	804
Taber, Winfield H., Boston, Mass. Corner-block for mattress-frames	26,245	Nov. 3	77	804
Tappan, Frank O., and L. A. Eggleston, Toledo, Ohio. Drafting instrument	25,489	May 12	75	988
Taylor Burner and Electroplating Co. (See Taylor, William G., assignor.)				
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Key	25,309	Mar. 31	74	1826
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Pad-lock case	26,039	Sept. 15	76	1707
Taylor, William A., Portland, Mo. Bird-scarer	26,419	Dec. 15	77	1776
Taylor, William G., assignor to Taylor Burner and Electroplating Co., Limited, Pittsburg, Pa. Gas-burner	26,149	Oct. 6	77	145
Teale, William B., Birmingham, England. Driving-chain link	25,713	June 30	75	2182
Terhune, Alfred, Paterson, N. J. Tag-fastener	25,756	July 7	76	155
Terry, Alexander T., Talcott, W. Va. Railway-rail brace	26,113	Sept. 29	76	1998
Terry, Ernest D. (See Place and Terry.)				
Terry, Le Grand, Horseheads, N. Y. Handle	25,171	Feb. 18	74	955
Thielke, Ferdinand, Brooklyn, N. Y. Handle for button-hooks, &c.	25,383	Apr. 14	75	339
Thielke, Ferdinand, Brooklyn, N. Y. Cover for bottles	25,940	Aug. 18	76	1106
Thielke, Ferdinand, Brooklyn, assignor to Woodside Sterling Company, New York, N. Y. Handle for button-hooks	26,456	Dec. 29	77	2126
Thistle Cheese Company. (See Brown, William I., assignor.)				
Thomas, Edgar J., Jr., Philadelphia, Pa. Game-board	25,965	Aug. 18	76	1110
Thomas, Frank S., Topeka, Kans. Desk-cabinet	25,733	June 30	75	2185
Thomas, Levi H., Chicago, Ill. Bottle	25,789	July 21	76	464
Thomas, Stonewall J., assignor of two-thirds to C. L. Wiley and A. B. Housholder, Lovettsville, Va. Belt-pin	26,192	Oct. 20	77	446
Thomas, William H., Jenkintown, Pa. Fence-post	26,363	Dec. 1	77	1420
Thomas, Herman, Brooklyn, N. Y. Rocking frame for bell toys	25,579	June 2	75	1539
Thompson, Henry B., assignor to I. Townsend, Philadelphia, Pa. Guy-slip	25,867	Aug. 4	76	775
Throop, Harvey M., Boston, Mass. Badge	25,500	May 19	75	1190
Thurlow, Wilmot B., Green's Landing, Me. Wear-plate for baskets	25,994	Sept. 8	76	1566
Tiffany & Company. (See Farnham, Paulding, assignor.)				
Tillinghast, Clark P., and G. F. Albro, Providence, R. I. Pin	26,058	Sept. 22	76	1843
Tochtop, Godfrey H., Portage des Sioux, Mo. Harrow-frame	25,427	Apr. 21	75	502
Toof, Edwin J., New Haven, Conn. Saddle pommel-plate	26,030	Sept. 15	76	1706
Totham, James, assignor to Peck Bros. & Company, New Haven, Conn. Basin-cock	25,950	Aug. 18	76	1108
Tourtellotte, George M., Worcester, Mass. Advertising-stand	25,922	Aug. 11	76	954
Towne, Henry R., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock or latch case	25,150	Feb. 11	74	800
Towne, Henry R., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock or latch case	25,151	Feb. 11	74	800
Towne, Henry R., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock or latch case	25,152	Feb. 11	74	800
Townsend, Isaac. (See Thompson, Henry B., assignor.)				
Trainer, John B. H., Williamsport, Pa. Game-board	26,168	Oct. 5	77	147
Traut, Justus A., New Britain, Conn. Level frame or block	25,130	Feb. 4	74	647
Traut, Justus A., assignor to Stanley Rule and Level Company, New Britain, Conn. Tool-handle	26,464	Dec. 29	77	2127
Travis, Charles L., Minneapolis, Minn., assignor to Hygienic Wheel Company, Philadelphia, Pa. Bicycle brace or fork	26,342	Nov. 24	77	1266
Tripp, W. L., et al. (See Glasscock, James B., assignor.)				
Troast, William F., assignor to Slaymaker-Barry Company, Lancaster, Pa. Lock-case	26,158	Oct. 6	77	146
Trott, Charles F. (See Moore and Trott.)				
Turnbull & Company. (See Egbert, William H., assignor.)				
Turner, Frederick, Lansdowne, Pa. Christmas banner	25,984	Sept. 8	76	1565
Turner, William W., Chicago, Ill. Roof-plate	26,201	Oct. 20	77	447
Turner, William W., Chicago, Ill. Roof-cap	26,226	Oct. 27	77	625
Turton, William, assignor to Unger Brothers, Newark, N. J. Corner-piece for pocket-books	25,969	Aug. 25	76	1267
Turton, William, assignor to Unger Brothers, Newark, N. J. Corner-piece for pocket-books	25,970	Aug. 25	76	1268
Turton, William, assignor to Unger Brothers, Newark, N. J. Corner-piece for pocket-books	25,971	Aug. 25	76	1268
Turton, William, assignor to Unger Brothers, Newark, N. J. Corner-piece for pocket-books	25,972	Aug. 25	76	1268
Twichell, Edward W. (See Ward, William S., assignor.)				
Unger Brothers. (See Dickinson, Philemon O., assignor.)				
Unger Brothers. (See Turton, William, assignor.)				
Udike, Daniel B., Boston, and B. G. Goodhue, Cambridge, Mass. Font of printing-type	25,979	Aug. 25	76	1269
Upton, William H., Columbus, Ohio. Carpet-beater	25,394	Apr. 14	75	340
Valiant, Joseph W., assignor of one-half to J. W. Harvey, Baltimore, Md. Dust-pan	25,079	Jan. 21	74	372
Vallens, Eugene, et al. (See Gaskill, Alfred, assignor.)				
Van Buren, William B., Brooklyn, N. Y. Box	25,643	June 16	75	1845
Van Camp, Frank, Indianapolis, Ind. Box	26,066	Sept. 22	76	1844

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Van Meter, Seymour D., Denver, Colo. Bicycle-saddle.	25,588	June 2	75	1540
Velázquez, Carlos M., Caracas, Venezuela, assignor to C. H. Lockett, Brooklyn, N. Y. Insulator-bracket	25,830	July 21	76	469
Vickery, Charles E. (See Carré, Alfred D., assignor.)				
Vilsack, Leopold W. (See Dotzenroth, Henry, assignor.)				
Vivion, Thomas G., Columbia, Mo. Badge or button	26,453	Dec. 29	77	2125
Vogt, Gustave C. C., Limoges, France. Covered dish	26,430	Dec. 22	77	1931
Vosburgh, Herman K., West Hartford, Conn. Bake-pan	25,482	May 12	75	987
Vouwie, Henry J., Chicago, Ill. Refrigerator display-case	25,784	July 14	76	329
W. & E. T. Fitch Company. (See Fitch, John B., assignor.)				
W. & E. T. Fitch Company. (See Hubbard, George M., assignor.)				
Wagandt, Charles L., Baltimore, Md. Child's plate	25,140	Feb. 11	74	798
Wagner, Louis C., New York, N. Y. Cigar-band	25,983	Sept. 8	76	1565
Wain, Alfred W., Detroit, Mich. Low-water-alarm column	25,650	June 16	75	1846
Wainwright, William W., assignor to P. H. & F. M. Roots Company, Connersville, Ind. Head for rotary pumps	25,444	Apr. 28	75	669
Waite, Henry E., Newton, Mass. Mail-packer	26,293	Nov. 17	77	1116
Waite, Henry E., Newton, Mass. Guide for mail-packing machines	26,439	Dec. 22	77	1932
Walbridge, Henry S., North Bennington, Vt. Bridge-piece for stereoscopes	25,210	Mar. 3	74	1267
Walch, Henry, Hoboken, N. J. Base-plate for base-ball-score cards	25,587	June 2	75	1540
Walden, Joseph, Orange, N. J. Welt for shoes	26,399	Dec. 15	77	1773
Walker, Arthur W., Malden, Mass. Casing-ring for furnaces	26,291	Nov. 17	77	1115
Walker, David. (See Warren and Walker.)				
Walker, David, Newark, N. J. Stair-carpet button	26,107	Sept. 29	76	1997
Walker, Edwin, Erie, Pa. Cigar-cutter frame	25,209	Mar. 3	74	1267
Walker, Edwin, Erie, Pa. Corkscrew-collar	25,776	July 14	76	324
Walker, John H., and H. Jifkins, Scranton, Pa. Campaign-badge	25,986	Sept. 8	76	1565
Wallace, Henry L., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon, &c.	25,347	Apr. 7	75	173
Wallace, Henry L., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Handle for spoons, &c.	25,854	Aug. 4	76	774
Wallace, Henry L., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Handle for spoons, &c.	25,855	Aug. 4	76	774
Wallace, Henry L., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Handle for knives, forks, &c.	26,018	Sept. 15	76	1704
Wallace, Thomas L., Indianapolis, Ind. Saw	25,763	July 7	76	156
Wallace, William, New York, N. Y. Campaign-badge	26,264	Nov. 17	77	1112
Walter, Mauric T. (See Ball and Walter.)				
Walton, Charles W., assignor of one-half to F. H. Maxam, Princeton, Ind. Necktie-band holder.	25,659	June 23	75	1998
Wanner, Albert, Jr., Hoboken, N. J. Mirror-frame	25,279	Mar. 24	74	1721
Wanner, Albert, Jr., Hoboken, N. J. Mirror-frame	25,314	Mar. 31	74	1887
Wanner, Albert, Jr., Hoboken, N. J. Hinge	25,508	May 19	75	1191
Wanner, Albert, Jr., Hoboken, N. J. Mirror-frame	25,517	May 19	75	1192
Ward, Orin A. (See Denton, Lemi B., assignor.)				
Ward, William S., assignor of one-half to E. W. Twichell, Plantsville, Conn. Bicycle shaft and crank.	26,031	Sept. 15	76	1706
Ward, William S., assignor of one-half to E. W. Twichell, Plantsville, Conn. Bicycle crank-shaft.	26,032	Sept. 15	76	1706
Warner, De Ver H., Bridgeport, Conn. Corset	26,373	Dec. 1	77	1422
Warner, Warren E., Rochester, N. Y. Foot-plate for bicycle-pedals	26,178	Oct. 13	77	306
Warner, William, Melvern, Kans. Fence-panel	25,805	July 21	76	466
Warner, William H., Melvern, Kans. Woven-wire fence-panel	26,290	Nov. 17	77	1115
Warren, John D., Chicago, Ill. Screw case or cabinet	25,732	June 30	75	2185
Warren, Robert H., Newark, N. J. Stair-carpet button	26,353	Dec. 1	77	1419
Warren, Robert H., and D. Walker, Newark, N. J. Stair-carpet button	25,265	Mar. 24	74	1719
Warren, Robert H., and D. Walker, Newark, N. J. Stair-carpet button	25,266	Mar. 24	74	1719
Waterbury Manufacturing Company. (See Chase, Frederick S., assignor.)				
Waterbury Watch Company. (See Hart, Edwin, assignor.)				
Waterman, Frank E., assignor of one-half to J. A. Wetherell, Parkersburg, W. Va. Badge or similar article	26,101	Sept. 29	76	1997
Watkins, Edward G., Gardner, Mass. Cane fabric	26,476	Dec. 29	77	2129
Watkins, Edward G., Gardner, Mass. Cane fabric	26,477	Dec. 29	77	2129
Watkins, Edward G., Gardner, Mass. Cane fabric	26,478	Dec. 29	77	2129
Watkins, Edward G., Gardner, Mass. Cane fabric	26,479	Dec. 29	77	2129
Watkins, Edward G., Gardner, Mass. Cane fabric	26,480	Dec. 29	77	2129
Watkins, Edward G., Gardner, Mass. Cane fabric	26,481	Dec. 29	77	2129
Watkins, Howard E., assignor to Oxley & Enos Manufacturing Company, New York, N. Y. Gas or electric light fixture	25,808	July 21	76	466
Watson & Newell Company. (See Crees and Court, assignors.)				
Watson & Newell Company. (See Scott, Edward W., assignor.)				
Watson, Thomas F. (See Hawthorn and Watson.)				
Webb, Samuel B., Personville, Tex. Kitchen-cabinet	26,371	Dec. 1	77	1422
Weber, Aaron M., Oshkosh, Wis. Hook	25,990	Sept. 8	76	1566
Weber, Aaron M., Oshkosh, Wis. Eye	25,991	Sept. 8	76	1566
Weber, Lavinia S., Philadelphia, Pa. Knife-scourer	25,063	Jan. 21	74	369
Weightman, William H., Brooklyn, N. Y. Boiler-tube	25,982	Sept. 1	76	1413
Weihman, Henry A., Philadelphia, Pa. Brush-back or similar article	25,568	June 2	75	1537
Weihman, Henry A., Philadelphia, Pa. Brush-back	26,457	Dec. 29	77	2126
Weihman, Henry A., assignor to Simons Bro. & Co., Philadelphia, Pa. Handle for nail-files, &c.	26,060	Sept. 22	76	1843
Weir Stove Company. (See Wilbur, George E., assignor.)				
Welch, Charles K., Coventry, England, assignor to Pneumatic Tyre Company, Limited, Dublin, Ireland. Wheel-rim	25,997	Sept. 8	76	1566
Wells, Augusta, Berkeley, Colo. Mat for pictures	25,644	June 16	75	1845
Welsbach Light Company. (See Barrows, George S., assignor.)				
Welsbach Light Company. (See Barrows, William E., assignor.)				
Welsbach Light Company. (See Kaye, Edward, assignor.)				
Welsh, Henry J., Boston, assignor to F. L. Maguire, Somerville, Mass. Soda-fountain plate	25,276	Mar. 24	74	1721
Wendell, Charles, Oswego, N. Y. Badge	25,985	Sept. 8	76	1565
Westcott-Jewell Company. (See Hutchinson, James E., assignor.)				
Western Railway Equipment Company. (See Marshall, Edward S., assignor.)				
Western Railway Equipment Company. (See Steinbrenner, Andrew G., assignor.)				
Western Stove and Manufacturing Company. (See Brown, James G., assignor.)				
Westlake, William, Brooklyn, N. Y. Vase caspidor	25,547	May 26	75	1354
Weston, Edward B., Dayton, Ohio. Frame for roll-paper holders and cutters	25,761	July 7	76	156
Wetherbee, Hiram E., Greenville, Miss., assignor of one-half to L. Hart, Cincinnati, Ohio. Back-band hook	26,173	Oct. 13	77	305

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Name, residence, and design.	No.	Date.	Official Gazette.	
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Wetherell, James A. (See Waterman, Frank E., assignor.)				
Whayne, Robert C., Louisville, Ky. Frame for washstands.....	25,730	June 30	75	2185
Wheatfield, William S., Baltimore, Md. Buckle.....	25,794	July 21	76	464
Wheeler, Benjamin F., assignor to Wheeler Saddle Co., Detroit, Mich. Bicycle-saddle.....	25,589	June 2	75	1540
Wheeler Saddle Co. (See Wheeler, Benjamin F., assignor.)				
Whiting, Junius F., and E. Cather, Lebanon, Oreg. Badge.....	26,171	Oct. 13	77	305
Whiting, La Forest, Baltimore, Md. Pipe-scraper.....	26,063	Sept. 22	76	1844
Whiting Manufacturing Company. (See Fletcher, Edwin J., assignor.)				
Whiting Manufacturing Company. (See Osborne, Charles, assignor.)				
Whitman, John F., assignor to I. A. Sheppard & Co., Philadelphia, Pa. Portable range.....	25,583	June 2	75	1539
Whitmore, Charles M., Meriden, Conn. Spring.....	25,237	Mar. 10	74	1435
Whittall, Matthew J. (See Gedney, Charles F., assignor.)				
Whittall, Matthew J. (See Neil, John B., assignor.)				
Whittall, Matthew J. (See Rose, Arthur M., assignor.)				
Wiedersheim, Theodore E., Jr., Philadelphia, Pa. Paper box.....	25,195	Feb. 25	74	1115
Wilbur, George E., assignor to Weir Stove Company, Taunton, Mass. Cooking-stove.....	25,810	July 21	76	466
Wilde, Arthur W., assignor to J. H., J. H., E., and W. H. Bromley, Philadelphia, Pa. Lace curtain.....	26,372	Dec. 1	77	1422
Wiley, Charles L., et al. (See Thomas, Stonewall J., assignor.)				
Wilkinson, Charles B., New York, N. Y. Badge.....	25,055	Jan. 21	74	368
Wilkinson, William H., New York, N. Y. Gas-stove.....	26,150	Oct. 6	77	145
Wilkinson, William W., and J. Dixwell, Boston, Mass. Bicycle-seat.....	25,951	Aug. 18	76	1108
William Read & Sons. (See Read, Edward, assignor.)				
Williams, Adam C., Ravenna, Ohio. Raisin-seeder frame.....	25,860	Aug. 4	76	775
Williams, Frank T., assignor to Edward Miller & Company, Meriden, Conn. Gas-burner.....	25,418	Apr. 21	75	500
Williams, Horace D., Poplar Bluff, Mo. Bottle.....	26,429	Dec. 22	77	1931
Williams, John R., Scranton, Pa. Horseshoe-calk.....	26,156	Oct. 6	77	146
Williams, John W., Buffalo, N. Y. Campaign-hat.....	25,686	June 30	75	2180
Williams, Joseph A., Cambridge, Mass. Badge.....	25,305	Mar. 31	74	1876
Williams, Richard H., Mount Vernon, N. Y. Kaleidoscope-box.....	25,391	Apr. 14	75	340
Williston, Belvin T. (See Park and Williston.)				
Willon, Joseph, New York, N. Y. Frame for clothes-line holders.....	25,647	June 16	75	1846
Willoughby, William J., and W. Y. Anderson, Horatio, Ark. Churn-stand.....	26,206	Oct. 20	77	447
Willson, Charles H., Medford, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Nail or slug.....	25,081	Jan. 21	74	372
Willson, Charles H., Medford, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Nail or slug.....	25,082	Jan. 21	74	372
Willson, Charles H., Medford, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Nail or slug.....	25,083	Jan. 21	74	372
Willson, Charles H., Medford, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Nail or slug.....	25,084	Jan. 21	74	372
Willson, Charles H., Medford, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Nail or slug.....	25,085	Jan. 21	74	372
Willson, Charles H., Medford, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Nail or slug.....	25,086	Jan. 21	74	372
Willson, Charles H., Medford, assignor to J. W. Brooks, Petersham, and F. F. Stanley, Swampscott, Mass., trustees. Nail or slug.....	25,087	Jan. 21	74	372
Wilson, Harold, New York, N. Y. Puzzle-box.....	26,230	Oct. 27	77	626
Wilson, William V., Nashville, Tenn. Ruler.....	25,261	Mar. 24	74	1719
Winchester Repeating Arms Company. (See Gardner, John, assignor.)				
Winchester Repeating Arms Company. (See Johnson, Thomas C., assignor.)				
Windmuller, Christian A., et al. (See Danforth, Cyrus L., assignor.)				
Wipf, Herman, Sharon Hill, assignor to J. and F. H. Wyeth and E. T. Dobbins, Philadelphia, Pa. Bottle.....	25,640	June 16	75	1845
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Ornamental print for cigar-boxes.....	25,071	Jan. 21	74	370
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Ornamental print for cigar-boxes.....	25,072	Jan. 21	74	370
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Ornamental print for cigar-boxes.....	25,290	Mar. 24	74	1723
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Ornamental print for cigar-boxes.....	25,302	Mar. 31	74	1876
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Pattern for cigar-boxes.....	25,348	Apr. 7	75	173
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Cigar-box cover.....	25,454	May 5	75	826
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Cigar-box cover.....	25,641	June 16	75	1845
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Print or pattern for cigar-boxes.....	26,188	Oct. 13	77	308
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Print or pattern for cigar-boxes.....	26,208	Oct. 20	77	448
Wodiska, Julius. (See Fuerstenberg, Samuel, assignor.)				
Wojdkow, Louis, Brooklyn, N. Y. Stand for chafing-dishes.....	25,473	May 12	75	987
Wojdkow, Louis, Brooklyn, N. Y. Kettle-stand.....	25,474	May 12	75	987
Wojdkow, Louis, Brooklyn, N. Y. Kettle-stand.....	25,475	May 12	75	987
Wojdkow, Louis, Brooklyn, N. Y. Kettle-stand.....	25,476	May 12	75	987
Wojdkow, Louis, Brooklyn, N. Y. Kettle-stand.....	25,477	May 12	75	987
Wojdkow, Louis, Brooklyn, N. Y. Kettle.....	25,478	May 12	75	977
Wojdkow, Louis, Brooklyn, N. Y. Kettle.....	25,479	May 12	75	987
Wojdkow, Louis, Brooklyn, N. Y. Kettle.....	25,480	May 12	75	987
Wojdkow, Louis, Brooklyn, N. Y. Kettle.....	25,481	May 12	75	987
Wojdkow, Louis, Brooklyn, N. Y. Chafing-dish.....	26,431	Dec. 22	77	1931
Wojdkow, Louis, Brooklyn, N. Y. Stand for chafing-dishes.....	26,432	Dec. 22	77	1931
Wojdkow, Louis, Brooklyn, N. Y. Stand for chafing-dishes.....	26,433	Dec. 22	77	1931
Wojdkow, Louis, Brooklyn, N. Y. Stand for chafing-dishes.....	26,434	Dec. 22	77	1931
Wojdkow, Louis, Brooklyn, N. Y. Stand for chafing-dishes.....	26,435	Dec. 22	77	1931
Wojdkow, Louis, Brooklyn, N. Y. Coffee-pot.....	26,436	Dec. 22	77	1931
Wojdkow, Louis, Brooklyn, N. Y. Toaster.....	26,437	Dec. 22	77	1931
Wolf, Aaron H., New York, N. Y. Gas-stove.....	25,284	Mar. 24	74	1722
Wolf, Aaron H., assignor to Wolf Gas Radiator Manufacturing Company, New York, N. Y. Gas-stove.....	26,327	Nov. 24	77	1263
Wolf Gas Radiator Manufacturing Company. (See Wolff, Aaron H., assignor.)				
Wolfgang, Adolph, assignor to Detroit Cap Manufacturing Co., Detroit, Mich. Cap.....	26,451	Dec. 29	77	2125
Wolfsheim, Louis, New York, N. Y. Display-tray.....	26,387	Dec. 8	77	1579

Alphabetical list of patentees of designs—Continued.

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Wolverine Manufacturing Company. (See Johnson, Henry, assignor.)				
Woman's Sunshine Publishing Company. (See Arbuckle, John, assignor.)				
Wood, Francis, Brooklyn, N. Y. Pen-rack	26,319	Nov. 24	77	1262
Wood, Frank W., Indianapolis, Ind. Watch-chain	25,501	May 19	75	1190
Wood, Otis F., West New Brighton, N. Y. Sign	26,080	Sept. 22	76	1846
Woodard, Alvin N., assignor (one-half to A. Small, Mansfield, Ohio. Pen-guard	26,379	Dec. 8	77	1588
Woodruff, Theron R., Mentor, Ohio. Fruit-basket	26,389	Dec. 8	77	1589
Woods, Clinton E., Chicago, Ill. Case for dynamos	25,329	Mar. 31	74	1889
Woods, Clinton E., assignor to American Electric Vehicle Company, Chicago, Ill. Vehicle-frame ..	25,920	Aug. 11	76	954
Woods, Frank C., Alliance, Ohio. Nozzle	25,916	Aug. 11	76	954
Woodside Sterling Company. (See Thielke, Ferdinand, assignor.)				
Worden, Leonard B., Middlesex, N. Y. Bicycle spoke-wrench	25,954	Aug. 18	76	1108
Worley, Edward G., New York, N. Y. Electric-bell case	25,842	July 28	76	603
Worthington, Charles C., Irvington, N. Y. Chamber-casing for pumps	25,621	June 9	75	1699
Worthington, Charles C., Irvington, N. Y. Valve-pot	25,622	June 9	75	1699
Wright, Frederick K., assignor to Steam Gauge and Lantern Company, Syracuse, N. Y. Lantern-frame	25,574	June 2	75	1538
Wurst, Charles F. C. (See Hayden and Wurst.)				
Wyeth, Frank H., <i>et al.</i> (See Wipf, Herman, assignor.)				
Wyeth, John, <i>et al.</i> (See Wipf, Herman, assignor.)				
Wykoff, Nancy, <i>et al.</i> (See Brobst, William L., assignor.)				
Yale & Towne Manufacturing Company. (See Erichson, Charles A., assignor.)				
Yale & Towne Manufacturing Company. (See Hirsh, Frederick R., assignor.)				
Yale & Towne Manufacturing Company. (See Taylor, Warren H., assignor.)				
Yale & Towne Manufacturing Company. (See Towne, Henry R., assignor.)				
Yard, John S., Trenton, assignor to Moore Brothers Company, Elizabeth, N. J. Radiator	25,045	Jan. 7	74	137
Yearicks, George W., Philadelphia, Pa. Foot-rest	25,848	July 28	76	604
Yokozuka, Shintaro, assignor to E. T. Mason & Co., New York, N. Y. Fabric	26,085	Sept. 22	76	1847
Yost, Louis P. D., Canton, Ohio. Air-furnace	26,117	Sept. 29	76	1998
Young, Jacob, Niagara Falls, N. Y. Spoon-holder	25,319	Mar. 31	74	1888
Young, Jonas F. (See Neumeyer and Young.)				
Young, McClintock, Frederick, Md., assignor to Palmetto Fiber Company, of Illinois. Brush	25,518	May 19	75	1192
Young, McClintock, Frederick, Md., assignor to Palmetto Fibre Company, of Illinois. Brush	25,895	Aug. 4	76	779
Zeidler, Paul M., New York, N. Y. Piano-case	25,898	Aug. 4	76	778
Ziegler, Alphonse W., New York, N. Y. Corn-holder	25,793	July 21	76	464
Zeigler, Lyman H. (See Butler and Zeigler.)				
Zetzsche, Julius F. (See Mabee and Zetzsche.)				
Zimmerman, Charles. (See Zimmerman, George F. S. and H., assignors.)				
Zimmerman, George F. S. and H., assignors of one-third to C. Zimmerman, Frederick, Md. Bracket for shutter-bowers	25,129	Feb. 4	74	647
Zimmerman, Harry. (See Zimmerman, George F. S. and H.)				
Zinn, Simon. (See Scheuber, August W., assignor.)				

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Volume.	Page.
A. A. Griffing Iron Company, Jersey City, N. J. Steam and water heaters.....	28,283	May 19	75	1199
A. A. Griffing Iron Company, Jersey City, N. J. Steam and water heaters.....	28,293	May 19	75	1200
A. A. Griffing Iron Company, Jersey City, N. J. Steam and hot-water heaters.....	28,294	May 19	75	1200
A. Baldwin & Company, Limited, New Orleans, La. Pocket and other knives.....	28,181	Apr. 21	75	506
A. D. M. Cranberry Co., Wareham, Mass. Cranberries.....	29,085	Nov. 3	77	808
A. G. Spalding & Bros., Chicopee Falls, Mass. Bicycles and parts of same.....	28,110	Apr. 7	75	182
A. G. Spalding & Bros., Chicago, Ill. Athletic, bicyclists', and sportsmen's wear.....	29,028	Oct. 20	77	450
A. G. Spalding & Bros., Chicago, Ill. Velocipedes and their parts and bicycle sundries.....	29,032	Oct. 20	77	450
A. G. Spalding & Bros., Chicago, Ill. Certain apparatus for tennis, croquet, golf, and other games and sports.....	29,055	Oct. 27	77	629
A. G. Spalding & Bros., Chicago, Ill. Exercising devices and appliances.....	29,113	Nov. 3	77	810
A. H. Atwood Company, Boston, Mass. Pressed corned beef.....	29,042	Oct. 27	77	627
A. W. Stewart & Company, New York, N. Y. Tonics or beverages which combine pepsin with the active principles of the cola-nut.....	28,444	June 23	75	2005
Abraham & Straus, Brooklyn, N. Y. Sewing-machines and attachments.....	27,629	Jan. 7	74	142
Acker & Co., Finley, Philadelphia, Pa. Certain named canned goods, cured meats, foods, and relishes, toilet articles and preparations, soaps, and fruits.....	28,481	June 30	75	2189
Acker & Co., Finley, Philadelphia, Pa. Certain named canned goods, foods and relishes, and fish.....	28,483	June 30	75	2189
Acker & Co., Finley, Philadelphia, Pa. Certain named grocers' supplies.....	28,559	July 7	76	160
Acker & Co., Finley, Philadelphia, Pa. Certain named grocers' supplies.....	28,560	July 7	76	160
Adam Scheidt Brewing Company, Norristown, Pa. Lager-beer.....	28,395	June 16	75	1850
Adams Company, Dubuque, Iowa. Stove-linings.....	28,325	June 2	75	1543
Adams, Jewett & Co., Cleveland, Ohio. Fiber interlining.....	28,331	June 2	75	1544
Adams & Westlake Company, Chicago, Ill. Bicycles, tricycles, quadricycles, and other light vehicles of similar character and their accessories.....	27,681	Jan. 21	74	376
Adams & Westlake Company, Chicago, Ill. Bicycles, tricycles, quadricycles, and other light vehicles of similar character and their accessories.....	27,682	Jan. 21	74	376
Adams & Westlake Company, Chicago, Ill. Bicycle-lamps.....	28,371	June 9	75	1702
Adler Medicine Co., L. & N., Reading, Pa. Remedies for dyspepsia and kindred affections.....	28,547	July 7	76	159
Esoulap Bitter Water Company, Limited, London, England, and Buda-Pesth, Austria-Hungary. Natural mineral water.....	29,312	Dec. 15	77	1779
Azawam Paper Company, Mittineague, Mass. Paper and envelopes.....	27,649	Feb. 25	74	1117
Aktienbrauerei zum Löwenbräu in München, Munich, Germany. Beer.....	27,094	Mar. 24	74	1737
Aktienbrauerei zum Löwenbräu in München, Munich, Germany. Beer.....	27,905	Mar. 24	74	1737
Albany Billiard Ball Company, Albany, N. Y. Billiard and pool balls.....	29,149	Nov. 10	77	971
Albany Brewing Company, New York, N. Y. Ale.....	28,605	Aug. 25	76	1270
Albany Brewing Company, Albany and New York, N. Y. Ale.....	29,075	Nov. 3	77	807
Albert Dickinson Company, Chicago, Ill. Grass-seed.....	28,240	May 12	75	991
Albert Landreth Seed Company, Manitowoc and Sheboygan, Wis. Canned green peas.....	27,781	Oct. 27	77	627
Alden, Charles S., and C. F. Nicholson, Rochester, N. Y. Canned food.....	29,041	Aug. 11	76	959
Alden & Co., Geo. A., Boston, Mass. Fossil earth used in the manufacture of rubber goods.....	28,754	Aug. 11	76	959
Alden & Co., Geo. A., Boston, Mass. India-rubber, gutta-percha, and other vulcanizable gums.....	29,053	Oct. 27	77	629
Alden & Co., Geo. A., Boston, Mass. India-rubber, gutta-percha, and other vulcanizable gums.....	29,054	Oct. 27	77	629
Alden & Co., Geo. A., Boston, Mass. India-rubber, gutta-percha, and other vulcanizable gums.....	29,206	Nov. 24	77	1268
Alden & Co., Geo. A., Boston, Mass. India-rubber, gutta-percha, and other vulcanizable gums.....	29,207	Nov. 24	77	1268
Alden & Co., Geo. A., Boston, Mass. India-rubber, gutta-percha, and other vulcanizable gums.....	29,208	Nov. 24	77	1269
Alden & Co., Geo. A., Boston, Mass. India-rubber, gutta-percha, and other vulcanizable gums.....	29,209	Nov. 24	77	1269
Alden & Co., Geo. A., Boston, Mass. India-rubber, gutta-percha, and other vulcanizable gums.....	29,210	Nov. 24	77	1269
Alden & Co., Geo. A., Boston, Mass. India-rubber, gutta-percha, and other vulcanizable gums.....	29,211	Nov. 24	77	1269
Alden & Co., Geo. A., Boston, Mass. India-rubber, gutta-percha, and other vulcanizable gums.....	29,212	Nov. 24	77	1269
Alden & Co., Geo. A., Boston, Mass. India-rubber, gutta-percha, and other vulcanizable gums.....	29,213	Nov. 24	77	1269
Allen B. Wrisley Company, Chicago, Ill. Laundry soap.....	29,285	Dec. 8	77	1593
Allen & Co., Charles H., Attleborough, Mass. Buttons, pins, and similar articles of ornamental jewelry.....	27,920	Mar. 10	74	1437
Alsen's Portland Cement Fabriken, Hamburg, Germany. Portland cement.....	28,543	July 7	76	159
American Biscuit and Manufacturing Company, Chicago, Ill. Crackers and biscuits.....	28,737	Aug. 11	76	957
American Biscuit and Manufacturing Company, Chicago, Ill. Certain named bakers' products and confectionery and medicated candy.....	28,777	Aug. 18	76	1112
American Biscuit and Manufacturing Company, Chicago, Ill. Crackers and biscuits.....	28,778	Aug. 18	76	1112
American Biscuit and Manufacturing Company, Chicago, Ill. Peanuts.....	28,922	Sept. 29	76	2006
American Biscuit and Manufacturing Company, Chicago, Ill. Oyster-crackers.....	29,379	Dec. 29	77	2134
American Bluing Company, Bayville, N. J., and New York, N. Y. Bluing.....	28,697	July 28	76	608
American Cereal Company, Akron, Ohio, Chicago, Ill., and Cedar Rapids, Iowa. Rolled oats.....	28,157	Apr. 21	75	504
American Chemical Company, Philadelphia, Pa. Chewing-gum.....	28,885	Sept. 22	76	1850
American Cutlery Company, Chicago, Ill. Table-cutlery, table-knives, bread and butcher knives.....	28,369	June 9	75	1702
American Leather Company, New York, N. Y. Shoe-leathers.....	28,850	Sept. 1	76	1415
American Manufacturing Company, South Vicksburg, Miss., and Chicago, Ill. Parlor-matches.....	27,997	Mar. 24	74	1727
American News Company, New York, N. Y. Indelible ink for marking linen.....	27,762	Feb. 11	74	803
American Shot and Lead Company, Chicago, Ill. Hydraulic-pressed traps, called drawn traps, and made of lead and electroplated.....	28,005	Mar. 24	74	1728
American Spirits Manufacturing Company, New York, N. Y., and Peoria, Ill. Spirits.....	27,811	Feb. 18	74	980
American Steam Packing Co., Boston, Mass. Piston-packing.....	28,079	Apr. 7	75	179
American Tin Plate Company, Elwood, Ind., and Cincinnati, Ohio. Tin and terne plates and similar goods.....	27,677	Jan. 21	74	375
American Tobacco Company, Newark, N. J., and New York, N. Y. Chewing and smoking tobacco.....	28,178	Apr. 21	75	506
American Tobacco Company, Newark, N. J., and New York, N. Y. Snuff.....	28,179	Apr. 21	75	506
American Tobacco Company, Newark, N. J., and New York, N. Y. Smoking-tobacco, cigars, che- roots, cigarettes, and snuff.....	28,234	May 12	75	991
American Tobacco Company, Newark, N. J., and New York, N. Y. Smoking-tobacco.....	28,265	May 19	75	1197
American Tobacco Company, Newark, N. J., and New York, N. Y. Smoking-tobacco.....	29,035	Oct. 27	77	627
American Tobacco Company, Newark, N. J., and New York, N. Y. Smoking-tobacco.....	29,036	Oct. 27	77	627

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American Waltham Watch Company, Boston and Waltham, Mass. Watches, movements, and parts.	28,658	July 21	76	473
American Waltham Watch Company, Boston and Waltham, Mass. Watches, movements, and parts of watches	29,246	Dec. 8	77	1590
American Wine Company, St. Louis, Mo. Champagne-wine	28,269	May 19	75	1198
American Wringer Company, Providence and Woonsocket, R. I., New York and Auburn, N. Y., and Erie, Pa. Clothes-wringers	27,605	Jan. 7	74	140
American Wringer Company, Providence and Woonsocket, R. I., New York and Auburn, N. Y., and Erie, Pa. Clothes-wringers and the parts thereof	28,948	Oct. 8	77	150
American Wringer Company, Providence and Woonsocket, R. I., New York and Auburn, N. Y., and Erie, Pa. Clothes-wringers and the parts thereof	28,949	Oct. 6	77	150
American Writing Machine Company, Ilion and New York, N. Y. Type-writer supplies	29,290	Dec. 8	77	1594
Ames Bonner Company, Toledo, Ohio. Solid-back brushes	27,760	Feb. 11	74	803
Ames Bonner Company, Toledo, Ohio. Brushes	27,824	Feb. 18	74	961
Amory Manufacturing Company, Manchester, N. H. Cotton piece goods	27,378	June 16	75	1848
Anchor Brewing Company, Dobbs Ferry and New York, N. Y. Beer and ale	28,933	Oct. 6	77	149
Anderson, Hans, Chicago, Ill. Liquid medicines for external application	28,936	Sept. 1	76	1414
Anderson & Nelson Distilleries Company, Louisville, Ky. Whisky	29,372	Dec. 29	77	2133
Anderson & Nelson Distilleries Company, Louisville, Ky. Whisky	29,373	Dec. 29	77	2133
Andrews, Clarence C., Providence, R. I. Salt	28,225	May 5	75	831
Andrews, Ernest L., Bristol, Tenn. Remedy for liver diseases	27,735	Feb. 4	74	649
Anglo-American Cycle Fittings Company, New York, N. Y. Cycle parts and accessories	28,609	July 14	76	332
Anheuser-Busch Brewing Association, St. Louis, Mo. Bottled lager-beer	28,866	Sept. 8	76	1571
Anheuser-Busch Brewing Association, St. Louis, Mo. Lager-beer	28,867	Sept. 8	76	1571
Anheuser-Busch Brewing Association, St. Louis, Mo. Malt extract and malt foods	28,905	Sept. 29	76	2004
Animarium Company. (See Sanche, Hercules, assignor.)				
Ansonia Brass and Copper Company, Ansonia, Conn., and New York, N. Y. Rods, sheets, wire, plates, ingots, and castings made from metallic alloys	28,067	Mar. 31	74	1896
Antiswetsol Company, Milwaukee, Wis. Medicated shoe-pads	28,354	June 9	75	1701
Appleton, Machin & Smiles, London, England. Tea, coffee, cocoa, chocolate, and chicory	27,816	Feb. 18	74	960
Appleton, Machin & Smiles, London, England. Teas	27,891	Mar. 3	74	1273
Archambeaud Frères, Bordeaux, France. Cognac	28,219	May 5	75	830
Arkell & Douglas, New York, N. Y. Edge-tools	28,148	Apr. 14	75	345
Armour Packing Company, Kansas City, Kans. Canned and preserved meats and meat products	28,738	Aug. 11	76	958
Armstrong & Co., Wm. H., Indianapolis, Ind. Nasal syringes	28,946	Oct. 6	77	150
Arzt & Sons, Elizabeth, N. J. Candle-holders	27,631	Jan. 14	74	286
Asphaltina Company of America, Syracuse, N. Y. Compositions for sewer-pipes, conduits, and roofing and paving	27,639	Jan. 14	74	286
Aste, Anthony L., New York, N. Y. Leather dressing and polishing preparations	28,645	July 21	76	472
Atha & Hughes, Newark, N. J. Oil-cloths	28,531	July 7	76	157
Aucoc et Darraq, J., Paris, France. Cycles, velocipedes, bicycles, and tricycles	29,153	Nov. 10	77	972
Auerbach, Joseph, Washington, D. C. Hats and other head-coverings, neckwear, and men's shirts and other men's wearing-apparel	28,862	Sept. 8	76	1571
August Moll Manufacturing Company, New York and Brooklyn, N. Y. Silk, worsted, linen, and cotton braids	28,864	Sept. 8	76	1571
August Moll Manufacturing Company, New York and Brooklyn, N. Y. Braids	28,865	Sept. 8	76	1571
Aultman Company, Canton, Ohio. Engines for use in threshing, sawing, stone-crushing, road-making, &c.	27,834	Feb. 18	74	962
Aultman & Taylor Machinery Company, Mansfield, Ohio. Vertical water-tube boilers	27,833	Feb. 18	74	962
Aurora Corset Company, Aurora, Ill. Corsets	28,073	Apr. 7	75	178
Aurora Corset Company, Aurora, Ill. Corsets	28,846	Sept. 1	76	1415
Austin Cartridge Company, Cleveland, Ohio. Shotgun-shells	29,390	Dec. 29	77	2135
Austin Cartridge Company, Cleveland, Ohio. Shotguns and shotgun-shells	29,391	Dec. 29	77	2135
Automatic Sight Testing and Optical Supply Company, Limited, London, England. Optical instruments	28,146	Apr. 14	75	345
B. Payn's Son's Tobacco Company, Albany, N. Y. Long-cut smoking and chewing tobacco	28,476	June 30	75	2189
Babcock, George H., Westerly, R. I. Shirts	29,255	Dec. 8	77	1591
Backes Sons, M., Wallingford, Conn. Toy torpedoes and toy paper caps	29,299	Dec. 15	77	1777
Bacon, Charles G., Jr., New York, N. Y. Antirheumatic, antineuralgic, and antipyretic medicine	29,354	Dec. 29	77	2131
Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Dye-stuffs	27,943	Mar. 10	74	1439
Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Dye-stuffs	27,944	Mar. 10	74	1439
Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Dye-stuffs	27,945	Mar. 10	74	1439
Bazots, Hutton & Company, Limited, Dublin, Ireland. Wines and spirits	27,812	Feb. 18	74	960
Bailey, Charles S., St. Augustine, Fla. Compound for removing paint	27,767	Feb. 11	74	803
Bailey Soap Company, Dayton, Ohio. Tar soap	27,967	Mar. 17	74	1585
Bain & Chapman Manufacturing Company, St. Louis, Mo. Baking-powder	27,413	June 16	75	1852
Baiz, Jacob, New York, N. Y. Canned fresh beef	27,698	Jan. 28	74	492
Ball and Socket Fastener Company, Nashua, N. H., and Boston, Mass. Fasteners for gloves, garments, &c.	27,988	Mar. 24	74	1726
Ball, Webster C., Cleveland, Ohio. Watches and portable clocks	27,630	Jan. 14	74	266
Barker & Co., Robert, Philadelphia, Pa. Cough mixtures, blood purifiers, powders, liniments, pills, syrups, extracts, tonics, and bitters	28,344	June 2	75	1545
Barker, Mathias, and A. J. Kelly, Kahoka, Mo. Hair washes and tonics	28,434	June 23	75	2004
Barker, William, Troy, N. Y. Collars and cuffs	28,889	Sept. 29	76	2002
Barnard, Walter, London, England. Hats, caps, and bonnets	28,888	Sept. 29	76	2002
Barnes Cycle Company, Syracuse, N. Y. Bicycles, velocipedes, and their parts and attachments	28,826	June 2	75	1543
Barnes, Lewis, St. Louis, Mo. Hog-cholera remedy	28,566	July 7	76	160
Bartholomay Brewery Company, Rochester, N. Y. Lager-beer	29,100	Nov. 3	77	809
Bartlett, Smith, New York, N. Y. Cachous for the breath	27,942	Mar. 10	74	1439
Bartram Bros., New York, N. Y. Butter	29,040	Oct. 27	77	627
Basle Chemical Works Bindschedler, Basle, Switzerland. Medical compound of antipyretic and antineuralgic properties	29,091	Nov. 3	77	808
Bass, Solomon, New York, N. Y. Cement	28,967	Oct. 6	77	151
Bassett, Estate of Robert N., Derby, Conn. Dress-stays	29,026	Oct. 20	77	450
Bassford & Robertson, Pittsburg, Pa. Remedies for whooping-cough, colds and hoarseness, and throat and lung troubles	28,945	Oct. 6	77	149
Bates & Bacon, Attleborough, Mass. Watchcases	28,349	June 9	75	1701
Bates, Frederick H., Elmhurst, Ill. Remedies for kidney diseases	27,675	Jan. 21	74	375
Bay State Corset Company, Springfield, Mass. Corsets and underwaists for ladies and children	28,202	May 5	75	829
Beaham Manufacturing Company, Kansas City, Mo. Powdered starch packed in paper carton boxes	27,955	Mar. 17	74	1584
Beard, Estate of Huntington, Fayetteville, N. Y. Flour	27,818	Feb. 18	74	960
Beechman, Victor J., and N. A. Stirm, Bridgeport, Conn. Wall-size	29,007	Oct. 13	77	212
Beck, Uriah G., Elmira, N. Y. Cosmetics and preparations for rendering the skin soft and smooth	27,641	Jan. 14	74	367
Beckel & Co., Joseph, New York, N. Y. Ladies' corsets	29,254	Dec. 8	77	1591

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Becker, Gustav A., New York, N. Y. Sauces	29,229	Dec. 1	77	1424
Beckham, McKnight & Co., Kansas City, Mo. Roasted coffee	28,129	Apr. 14	75	343
Beetham & Son, M., Cheltenham, England. Toilet preparation for the skin	28,277	May 19	75	1198
Belle Springs Creamery Company, Abilene, Kans. Butter	29,315	Dec. 15	77	1779
Beltaire, Lurch & Co., New York, N. Y. Boys' and men's fur hats	29,061	Nov. 3	77	806
Bendiner & Schlesinger, New York, N. Y. Cordials	28,341	June 2	75	1545
Benton, Darwin N., Guilford, Conn. Canned fruits and vegetables	28,870	Sept. 8	76	1572
Berkovitz, Charles, New York, N. Y. Ointment for cure of piles	27,787	Feb. 11	74	805
Bernard & Friedman, Boston, Mass. Leather	28,010	Mar. 24	74	1728
Berner-Mayer Company, Cleveland, Ohio. Beer-dispensing apparatus	28,108	Apr. 7	75	182
Berry Brothers, Limited, Detroit, Mich. Colored and transparent varnish for use on metal surfaces	28,023	Mar. 24	74	1729
Besson & Company, Limited, London, England. Brass and other wind instruments	28,227	May 5	75	781
Bettys & Mabbett Company, Rochester, N. Y. Bicycles	28,725	Aug. 4	76	834
Bickmore Gall Cure Company, Old Town, Me. Remedies for skin and flesh wounds and diseases of animals	28,282	May 19	75	1199
Bird & Co., J. A. & W., Boston, Mass. Paint	28,968	Oct. 6	77	151
Birkmeyer & Sons, John F., Baltimore, Md. Round or oblong pieces of candy attached to the ends of sticks	28,717	Aug. 4	76	783
Bissell Carpet Sweeper Company, Grand Rapids, Mich., and New York, N. Y. Carpet-sweeper	28,616	July 14	76	332
Bissett, John J., Paterson, N. J. Medicinal liquids or pellets for all forms of dyspepsia	28,174	Apr. 21	75	506
Blackwelder, John W., Catawba, N. C. Chewing-tobacco	27,769	Feb. 11	74	803
Blake, George W., New York, N. Y. Sauces, catsup, jellies, fruits, and vegetables	27,625	July 21	76	470
Blanchard, Joseph, Seattle, Wash. Remedy for skin diseases	27,963	Mar. 17	74	1585
Bleistiftfabrik, vormals Johann Faber Actien-Gesellschaft, Nuremberg, Germany. Pencils, penholders, and cases, erasers, leads, slates, chalks, and other stationery	28,381	June 16	75	1848
Blodgett & Clapp Company, Hartford, Conn. Horseshoe-calks	28,290	May 19	75	1199
Blome, George J., Baltimore, Md. Lozenges and other confections	27,894	Mar. 3	74	1274
Blot, Georges R., Paris, France. Electric accumulators and receptacles containing same	28,298	May 26	75	1356
Blount & Otto, New York, N. Y. Gas-heaters	27,876	Feb. 25	74	1119
Bobbitt, J. H., and J. L. Ramsey, Raleigh, N. C. Remedies for diseases of the blood, including rheumatic affections	28,307	May 26	75	1357
Bode & Daly, New York, N. Y. Medicated soap	29,183	Nov. 17	77	1122
Boepple Button Company, Muscatine, Iowa. Pearl buttons and buttons manufactured from native shells	28,355	June 9	75	1701
Boesé, Peppard & Co., New York, N. Y. Handkerchiefs	28,187	Apr. 28	75	671
Böhringer & Reuss, Cannstadt, Germany. Remedies for perspiring feet	28,943	Oct. 6	77	149
Bolte Cycle Manufacturing Company, Milwaukee, Wis. Cycles	29,289	Dec. 8	77	1594
Booth, George, Toronto, Canada. Copper range-boilers, closet-seats, and tanks	28,256	May 12	75	992
Borsum Bros., New York, N. Y. Polishing material for metals	29,105	Nov. 3	77	810
Bosisto & Co., J., Richmond, Victoria. Oil of eucalyptus or rheumatic oil	29,261	Dec. 8	77	1591
Boss Washing Machine Co., Cincinnati, Ohio. Hand-power washing-machines other than wringers	28,374	June 9	75	1702
Boston Raisin Company, Boston, Mass. Raisins	27,646	Jan. 14	74	267
Boston Rubber Shoe Company, Boston and Malden, Mass. Rubber shoes	28,076	Apr. 7	75	178
Boston Woven Hose and Rubber Company, Boston, Mass., New York, N. Y., Chicago, Ill., San Francisco, Cal., and Cleveland, Ohio. Elastic or pneumatic tires	27,879	Feb. 25	74	1120
Boston Woven Hose and Rubber Company, Boston, Mass., New York, N. Y., Chicago, Ill., San Francisco, Cal., and Cleveland, Ohio. Yielding or pneumatic tires	28,184	Apr. 21	75	506
Boston Woven Hose and Rubber Company, Boston, Mass., New York, N. Y., Chicago, Ill., San Francisco, Cal., and Cleveland, Ohio. Yielding or pneumatic tires	28,374	July 7	76	162
Boston Woven Hose and Rubber Company, Boston, Mass., New York, N. Y., Chicago, Ill., San Francisco, Cal., and Cleveland, Ohio. Composition for repairing pneumatic tires	29,051	Oct. 27	77	629
Boston Woven Hose and Rubber Company, Boston, Mass., New York, N. Y., San Francisco, Cal., and Cleveland, Ohio. Compressible tubular holders for plastic cementitious material	29,155	Nov. 10	77	972
Bosworth & Co., C. T., New Bedford, Mass. Preparation of witch-hazel balsam	29,310	Dec. 15	77	1778
Bowers Rubber Company, San Francisco, Cal. Hydraulic hose, cotton rubber-lined, linen, and cotton hose	28,078	Apr. 7	75	178
Bowker Fertilizer Company, Boston, Mass. Crushed limestone	27,768	Feb. 11	74	803
Bowker Fertilizer Company, Boston, Mass. Animal-meal	27,998	Mar. 24	74	1727
Bowker Fertilizer Company, Boston, Mass. Oily substance belonging to the class of insecticides	27,999	Mar. 24	74	1727
Bradley, Marie A., Mauston, Wis. Medicine for diphtheria and scarlet fever	27,925	Mar. 10	74	1437
Bradley Pulverizer Company, Boston, Mass. Pulverizing-mills	27,660	Jan. 14	74	268
Brady & Co., T. W., Kansas City, Mo. Certain named dairy products	27,741	Feb. 4	74	650
Brand, James, New York, N. Y. Portland cement	28,676	July 28	76	605
Brandreth Company, Sing Sing, N. Y. Certain proprietary preparation	27,620	Jan. 7	74	141
Brandreth Company, Sing Sing, N. Y. Certain proprietary preparation	27,621	Jan. 7	74	141
Brauch, Adolph. (See Laef, Brauch, and Hilton.)				
Breidbach & Son, C. J., New York, N. Y. Adhesive substances	28,216	May 5	75	830
Brenner, L. & G., San Francisco, Cal. Shirts, collars, and cuffs	28,423	June 23	75	2003
Bridgeport Wood Finishing Company, New Milford, Conn. Wood-filler	28,336	June 2	75	1544
Bridgeport Wood Finishing Company, New Milford, Conn. Wood-fillers, primers, and paints	28,601	July 14	76	332
Briesen, Richard v., New York, N. Y. Tooth, nail, hair, mustache, artists', clothes, and bath brushes	28,059	Mar. 31	74	1896
Bright's Chemical Co., Little Falls, N. Y. Remedies for diseases of the blood, liver, and kidneys	28,993	Oct. 13	77	310
Brion & Paté, Rheims, France. Flannels made wholly or in part of peat fiber	29,248	Dec. 8	77	1590
Brion & Paté, Rheims, France. Flannels made wholly or in part of peat fiber	29,249	Dec. 8	77	1590
Bronson, Brown & Co., New York, N. Y. Tea	27,865	Feb. 25	74	1118
Bronson, Brown & Co., New York, N. Y. Tea	27,866	Feb. 25	74	1118
Brook & Brothers, Jonas, New York, N. Y., and Meltham, England. Cotton thread	28,451	June 30	75	2188
Broom, Samuel, and O. L. Meyer, New York, N. Y. Shirts, collars and cuffs, drawers and shirt-waists, and goods of like character	28,667	July 28	76	605
Brown Bros. & Aberle Company, Limited, Philadelphia, Pa. Hose or stockings	27,661	Jan. 21	74	374
Brown & Co., David S., New York, N. Y. Soaps, perfumes, powders, pastes, lotions, waters, cosmetics, and salves	27,895	Mar. 3	74	1274
Brown Shoe Company, St. Louis, Mo. Ventilating-shoes	27,935	Mar. 10	74	1438
Brunner, Max B., New York, N. Y. Ready-made garments	29,126	Nov. 10	77	969
Brunswig, Lucien N., New Orleans, La. Medicinal bitters	28,059	Apr. 7	75	179
Bryan, Charles C., Washington, D. C. Whisky	28,015	Mar. 24	74	1729
Bryan, Miner & Read, New Haven, Conn. Teas	29,099	Nov. 3	77	809
Bryan, William H., Baltimore, Md. Cakes of soap	29,021	Oct. 20	77	450
Bryce, Robert, Albany, N. Y. Egg-beater	27,789	Feb. 11	74	805
Buchane, Jennie, Minneapolis, Minn. Toilet article for use on the face	28,494	June 30	75	2190
Bucher & Gibbs Plow Company, Canton, Ohio. Plows and their parts	27,978	Mar. 17	74	1586
Bucher & Gibbs Plow Company, Canton, Ohio. Plows and their parts	27,979	Mar. 17	74	1586

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Bucher & Gibbs Plow Company, Canton, Ohio. Plows and their parts	28,006	Mar. 24	74	1728
Bucher & Gibbs Plow Company, Canton, Ohio. Plows and their parts	28,007	Mar. 24	74	1728
Bueb & Greene, New York, N. Y. Woolen goods, silks, ribbons, and laces	28,332	June 2	75	1544
Bull, James L., Passaic, N. J. Ointments	27,786	Feb. 11	74	805
Bulsing & Heslenfeld, Rotterdam and Amsterdam, Netherlands. Wheat-flour	28,124	Apr. 14	75	342
Burke & Beyer, Newark, N. J. Printed publications	28,295	Dec. 15	77	1774
Burke, Frank G., New York, N. Y. Toilet and laundry soaps	28,040	Mar. 31	74	1894
Burke, Frank G., New York, N. Y. Toilet and laundry soaps	28,041	Mar. 31	74	1894
Burke, Frank G., New York, N. Y. Toilet and laundry soap	28,246	May 12	75	992
Burnett & Co., Robert, London, England. Whisky	28,806	Aug. 25	76	1270
Burnett & Co., Robert, London, England. Whisky	28,807	Aug. 25	76	1270
Burnett, William J., Minneapolis, Minn. Pelts, hides, skins, furs, wools, and tallow	27,802	Feb. 18	74	959
Burns, Peter C., Kokomo, Ind. Telephones	29,111	Nov. 3	77	810
Burns, Peter C., Kokomo, Ind. Transmitters	29,112	Nov. 3	77	810
Burst, Emil, St. Louis, Mo. Saponaceous and alkali solutions to be mixed with soap and water for cleaning purposes	29,136	Nov. 10	77	970
Butcher, Charles F., Sheffield, England. Razors	28,050	Mar. 31	74	1895
Butler, Cora A., Chicago, Ill. Face-steamers	28,043	Mar. 31	74	1894
Butterick Publishing Company, Limited, New York, N. Y. Periodical fashion magazines	29,023	Oct. 20	77	450
Butterworth, Caleb H., Philadelphia, Pa. Ready-mixed paints	28,823	Aug. 25	76	1272
C. A. Lammers Bottling Company, Denver, Colo. Malt-liquor tonic	28,710	Aug. 4	76	783
C. F. Blanke Tea and Coffee Company, St. Louis, Mo. Coffee	27,939	Mar. 10	74	1439
C. H. Fargo & Company, Chicago, Ill. Footwear for bicycle-riders	28,009	Mar. 24	74	1728
C. H. Fargo & Company, Chicago, Ill. Bicycle-shoes	28,529	July 7	76	157
Cammeyer, Alfred J., New York, N. Y. Children's shoes	28,232	May 12	75	991
Cameron, Elizabeth W. M., Brooklyn, N. Y. Remedy for inebriety	28,995	Oct. 13	77	310
Camors & Co., J. B., New Orleans, La. Flour	28,236	May 12	75	991
Camors & Co., J. B., New Orleans, La. Flour	28,594	July 14	76	331
Canajoharie Creamery Company, Canajoharie, N. Y. Milk, cream, butter, and cheese	28,688	July 28	76	607
Candy, Walter W., St. Louis, Mo. Molasses candy	29,271	Dec. 8	77	1592
Canfield Rubber Company, Bridgeport, Conn., and New York, N. Y. Dress-shields	27,846	Feb. 25	74	1117
Cape Fear Canning and Sea Food Company, Southport, N. C. Extracts of clams	27,645	Jan. 14	74	267
Capital City Dairy Company, Columbus, Ohio. Oleomargarine	28,095	Apr. 7	75	180
Carew Manufacturing Company, South Hadley Falls, Mass. Writing-papers	28,428	June 23	75	2004
Carpenter, Clark L., New York, N. Y. Chemical powder for the feet	27,900	Mar. 3	74	1274
Carr, Walter M., Stoughton, Wis. Cosmetics	28,167	Apr. 21	75	505
Carlington, Campbell, & John A. Link, Firm of, Washington, D. C. Substitute for mucilage, paste, cement, or glue	28,643	July 21	76	472
Carson Bros. & Co., Evansville, Ind. Tea	27,815	Feb. 18	74	550
Carstairs, McCall & Co., Philadelphia, Pa. Whiskies	29,004	Oct. 13	77	311
Carstairs, McCall & Co., Philadelphia, Pa. Whiskies	29,005	Oct. 13	77	311
Carver, D. Frederick, Brooklyn, N. Y. Metal-polish	28,145	Apr. 14	75	345
Cascaden, Thomas, Jr., Waterloo, Iowa. Farm implements	28,614	July 14	76	332
Central Ohio Paper Company, Columbus, Ohio. Paper and envelopes	27,729	Feb. 4	74	649
Central Oligas Stove Company, Northampton, Mass. Sewing-machines	28,795	Aug. 18	76	1114
Chambers, Alexander, New York, N. Y. Metal	27,908	Mar. 3	74	1275
Chambers Glass Company, New Kensington, Pa. Sheet-glass	29,345	Dec. 29	77	2135
Chapman, John M., New York, N. Y. Canned fruit, fish, and vegetables	28,195	Apr. 28	75	672
Chapman, John M., New York, N. Y. Dried fruit, especially raisins	28,221	May 5	75	831
Chapman, John M., New York, N. Y. Canned salmon	28,718	Aug. 4	76	783
Chapman Slate Company, Chapman and Philadelphia, Pa., and New York, N. Y. Roofing-slates, sawed and plain, and rubbed-finished slates and slate slabs	28,802	Aug. 18	76	1114
Chapman & Smith Company, Chicago, Ill. Baking-powder	27,700	Jan. 28	74	492
Charles Munson Belting Company, Chicago, Ill. Leather belting	23,206	May 5	75	829
Charleston Metallic Packing Company, Charleston, S. C. Piston-packing	28,417	June 23	75	2003
Chase & Co., L. C., Boston, Mass. Pneumatic or solid-rubber tires	29,052	Oct. 27	77	629
Chase, Merritt & Co., Boston, Mass. Men's, boys', and youths' boots and shoes	27,728	Feb. 4	74	649
Checini, Louis H., Providence, R. I. Nerve tonic	28,911	Sept. 29	76	2004
Chemical Specialty Company, Philadelphia, Pa. Cleaning and polishing cloth	27,951	Mar. 17	74	1584
Chemical Specialty Company, Philadelphia, Pa. Cleaning and polishing cloth	27,952	Mar. 17	74	1584
Chemisch-Elektrische Fabrik "Prometheus" Gesellschaft mit Beschränkter Haftung, Frankfurt-on-the-Main, Germany. Certain named electrical apparatus	29,150	Nov. 10	77	971
Chemische Fabrik Auf Actien, vormals E. Schering, Berlin, Germany. Chemical preparation	28,431	June 23	75	2004
Chemische Fabrik Auf Actien, vormals E. Schering, Berlin, Germany. Anesthetics	28,438	June 23	75	2004
Chemische Fabrik Grünau Landschoff & Meyer, Grünau, Germany. Remedies for blood diseases	28,994	Oct. 13	77	310
Chemische Fabrik von Heyden, Gesellschaft mit Beschränkter Haftung, Radebeul, Germany. Pharmaceutical compounds for increasing the pressure of the blood	28,773	Aug. 18	76	1112
Chemische Fabrik von Heyden Gesellschaft mit Beschränkter Haftung, Radebeul, Germany. Pharmaceutical preparations for internal use	28,957	Oct. 6	77	150
Chemische Fabrik von Heyden, Gesellschaft, mit Beschränkter Haftung, Radebeul, Germany. Lactate of silver, citrate of silver, and all pharmaceutical preparations of silver	29,133	Nov. 10	77	969
Chemische Fabrik von Heyden, Gesellschaft, mit Beschränkter Haftung, Radebeul, Germany. Artificial saccharine compounds	29,146	Nov. 10	77	971
Chemische Fabrik Rhenania, Aix-la-Chapelle, Germany. Remedy for wounds and sores	29,262	Dec. 8	77	1591
Chemische Fabrik Rhenania, Aix-la-Chapelle, Germany. Remedy for wounds and sores	29,263	Dec. 8	77	1591
Chemische Fabrik Rhenania, Aix-la-Chapelle, Germany. Remedy for wounds and sores	29,264	Dec. 8	77	1592
Chemische Fabrik Rhenania, Aix-la-Chapelle, Germany. Remedy for wounds and sores	29,265	Dec. 8	77	1592
Cherokee-Lanyon Spelter Company, St. Louis, Rich Hill, and Nevada, Mo., Weir City, Pittsburg, Girard, and Scammon, Kans., and Marion, Ind. Spelter or manufactured zinc	28,288	May 19	75	1199
Cherokee-Lanyon Spelter Company, St. Louis, Rich Hill, and Nevada, Mo., Weir City, Pittsburg, Girard, and Scammon, Kans., and Marion, Ind. Spelter or manufactured zinc	28,456	June 23	75	2006
Chevrier & Kraus, Paris, France. Medicinal and surgical preparations, such as antiseptic powders	28,499	June 30	75	2191
Chicago Brewing Company, Chicago, Ill. Lager-beer	29,196	Nov. 24	77	1267
Chicago Brewing Company, Chicago, Ill. Lager-beer	29,230	Dec. 1	77	1424
Chicago Candy Co., Crawfordsville, Ind. Chewing-candy	28,691	July 28	76	607
Chicago Hominy and Milling Company, Chicago, Ill. Corn grits, fine and coarse	28,194	Apr. 28	75	671
Christensen & Henderson, Madelia, Minn. Wheat-flour	25,595	July 14	76	331
Christensen & Henderson, Madelia, Minn. Wheat-flour	28,779	Aug. 18	76	1112
Christian Moerlein Brewing Company, Cincinnati, Ohio. Beer	28,106	Apr. 7	75	181
Chronometer Co., Worcester, Mass. Cyclometers	27,835	Feb. 18	74	962
Church & Dwight Company, New York, N. Y. Carbonating-powder	29,168	Nov. 17	77	1121
Church & Dwight Company, New York, N. Y. Baking-soda, saleratus, and baking-powders	29,226	Dec. 1	77	1423
Church & Dwight Company, New York, N. Y. Powder for carbonating liquids	29,367	Dec. 29	77	2132
Churchill, Frank S., Burlington, Iowa. Tooth-wash	27,855	Feb. 25	74	1118

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Churton, Thomas, Liverpool, England. Toilet articles, including preparations for the teeth, hair, and skin, perfumery and toilet soaps.	28,168	Apr. 21	75	505
Citizens' Wholesale Supply Co., Columbus, Ohio. Spices, flavoring extracts, and manufactured cocoanut.	27,817	Feb. 18	74	960
Clark, Linus R. (See Hovey and Clark.)				
Clarke, Henry B., Chicago, Ill. Bicycle-lamps.	28,672	July 28	76	605
Clarus Company, Bridgeport, Conn. Washing, bleaching, and cleaning fluid.	28,392	June 16	75	1849
Clawson, Clement C., Newark, N. J. Coin-receivers and coin controlled and operated machines and apparatus.	28,004	Mar. 24	74	1728
Cleveland Faucet Company, Cleveland, Ohio. Portable air-pump.	28,572	July 7	76	162
Cleveland Foundry Company, Cleveland, Ohio. Sad-irons.	27,655	Jan. 14	74	268
Cline, Stanley S., Philadelphia, Pa. Bottles or flasks.	28,825	Aug. 25	76	1272
Clough, Estate of Theodore, Dobbs Ferry, N. Y. Gas-burners.	28,755	Aug. 11	76	959
Clough, Theodore, Estate of, Dobbs Ferry, N. Y. Gas-burners.	28,971	Oct. 6	77	152
Cohen, Charles J., Philadelphia, Pa. Eyelets for fastening papers, &c.	28,659	July 21	76	473
Cohen, Charles J., Philadelphia, Pa. Eyelets for fastening papers, &c.	28,660	July 21	76	473
Cohen, Charles J., Philadelphia, Pa. Eyelets for fastening papers, &c.	28,661	July 21	76	474
Cole, Danforth, Minneapolis, Minn. Toilet tablet for the bath and toilet stand.	28,115	Apr. 7	75	182
Coleman, Solomon, Memphis, Tenn. Preparation for laying dust.	28,938	Oct. 6	77	149
Colgate & Co., New York, N. Y. Certain named toilet preparations and fumigators.	27,765	Feb. 11	74	803
Collins Company, Canton, Conn. Certain edge-tools.	29,398	Dec. 29	77	2136
Collins, James R., New York, N. Y. Burlaps and buckram.	28,203	May 5	75	829
Colman, J. & J., London, England. Mustard and mustard products.	28,784	Aug. 18	76	1112
Colman, J. & J., London, England. Mustard and table-mustard.	28,785	Aug. 18	76	1112
Colman, J. & J., London, England. Mustard and table-mustard.	28,786	Aug. 18	76	1113
Colman, J. & J., London, England. Mustard and table-mustard.	28,787	Aug. 18	76	1113
Colman, J. & J., London, England. Mustard and table-mustard.	28,788	Aug. 18	76	1113
Colman, J. & J., London, England. Mustard and table-mustard.	28,789	Aug. 18	76	1113
Colman, J. & J., London, England. Mustard and table-mustard.	28,790	Aug. 18	76	1113
Colman, J. & J., London, England. Table-mustard.	28,812	Aug. 25	76	1270
Colman, J. & J., London, England. Table-mustard.	28,813	Aug. 25	76	1271
Colman, J. & J., London, England. Table-mustard.	28,814	Aug. 25	76	1271
Colman, J. & J., London, England. Mustard and table-mustard.	28,924	Oct. 6	77	148
Colman, J. & J., London, England. Table-mustard.	28,925	Oct. 6	77	148
Colman, J. & J., London, England. Mustard and table-mustard.	28,926	Oct. 6	77	148
Colman, J. & J., London, England. Mustard and table-mustard.	28,927	Oct. 6	77	148
Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Pistols, rifles, and sporting-guns.	27,794	Feb. 11	74	806
Columbia Oil Company of New York, New York, N. Y. Petroleum.	28,651	July 21	76	473
Commonwealth Cotton Manufacturing Company, Durham, N. C. Fabrics, yarns, underwear, and knit goods, including hosiery.	28,703	Aug. 4	76	782
Commonwealth Cotton Manufacturing Company, Durham, N. C. Fabrics, yarns, underwear, and knit goods, including hosiery.	28,704	Aug. 4	76	782
Commonwealth Cotton Manufacturing Company, Durham, N. C. Yarns, underwear, and knit goods, including hosiery.	29,062	Nov. 3	77	806
Conley, Edward, Boston, Mass. Playing-cards.	27,632	Jan. 14	74	266
Consolidated Barb Wire Company, Lawrence, Kans. Barbed wire, plain wire, wire nails, staples, and bale-ties.	28,254	May 12	75	992
Consolidated Dental Manufacturing Company, New York, N. Y. Dental chairs, amalgams, alloys, and teeth-filling materials.	28,882	Sept. 15	76	1710
Consolidated Safety Pin Company, Bloomfield, N. J. Safety-pins, hair-pins, clips, and other metal fastening devices.	27,889	Mar. 3	74	1273
Continental-Gas-Glühlicht-Actien-Gesellschaft "Meteor," vormals Kroll, Berger & Co., Berlin, Germany. Certain named lamps and their parts, burners, globes, chimneys, wicks, and incandescent mantles.	28,198	Apr. 28	75	672
Cook, Charles C., Baltimore, Md. Remedy for headache.	29,172	Nov. 17	77	1121
Cook, David N., Salem, Mass. Pins, jewelry, and bijouterie.	28,321	June 2	75	1543
Cook, Elizabeth M., San Francisco, Cal. Remedies for female complaints.	29,173	Nov. 17	77	1121
Cook, James W., Clifton and Portland, Oreg. Canned salmon.	28,238	May 12	75	991
Coombs, William A., Coldwater, Mich. Wheat-flour.	27,699	Jan. 23	74	492
Cooper Cooper & Company, Limited, London, England. Coffee and tea.	29,076	Nov. 3	77	807
Cooper Cooper & Company, Limited, London, England. Coffee and tea.	29,077	Nov. 3	77	807
Cooper Manufacturing Co., Bennington, Vt. Underwear.	28,295	May 26	75	1356
Cope, John W., Stockton, Cal. Kidney and liver medicine.	28,509	June 30	75	2191
Coraline Company, Chicago, Ill. Remedies for headache, catarrh, croup, colds, and similar affections.	28,066	Mar. 31	74	1896
Corbin & Son, B. A., Webster, Mass. Boots and shoes.	28,847	Sept. 1	76	1415
Corbin & Son, B. A., Webster, Mass. Men's, boys', youths', women's, misses', and children's boots and shoes.	28,875	Sept. 15	76	1710
Corbin & Son, B. A., Webster, Mass. Men's, boys', youths', women's, misses', and children's boots and shoes.	28,876	Sept. 15	76	1710
Corner, A. & J. Q., Wick, Skornoway, and Scrabster, Scotland. Pickled herrings and other fresh and preserved fish and fish products.	28,123	Apr. 14	75	342
Coulter Manufacturing Company, St. Joseph, Mo. Syrups.	27,922	Mar. 10	74	1437
Courtenay, William H., Worcester, England. Sauces.	29,197	Nov. 24	77	1267
Cox & Co., London, England. Non-alcoholic beverages.	27,772	Feb. 11	74	804
Crandall, George L., W. H. Eastwood, H. A. Niles, and C. A. Wilkinson, Binghamton, N. Y. Bicycles.	27,656	Jan. 14	74	268
Crane, John P., Woburn, Mass. Split leather.	29,348	Dec. 29	77	2130
Crane, Z. & W. M., Dalton, Mass. Writing-paper and envelopes.	29,024	Oct. 20	77	450
Crawford, William, New York, N. Y. Bicycles or like vehicles.	28,975	Oct. 6	77	152
Crawford, William C., Baltimore, Md. Laundry soaps in cakes or powders.	28,020	Mar. 24	74	1729
Crescent Macaroni Company, Davenport, Iowa. Macaroni, spaghetti, vermicelli, and noodles.	28,843	Sept. 1	76	1415
Crescent Macaroni Company, Davenport, Iowa. Macaroni, spaghetti, vermicelli, and noodles.	28,844	Sept. 1	76	1415
Cross Abbott Company, Hartford, Vt. Japan tea.	28,961	Oct. 6	77	151
Cudaby Packing Company, Chicago, Ill., and South Omaha, Nebr. Certain named hog products, provisions, extracts, and compounds manufactured from hogs, cattle, and sheep.	28,558	July 7	76	160
Cunningham Anti-Krack Co., Brockton, Mass. Preparation for preventing cracking of japanned leather.	28,646	July 21	76	472
Cunningham, Curtiss & Welch, San Francisco, Cal. Writing-paper.	28,897	Sept. 29	76	2003
Cushing, Olmsted & Snow, Boston, Mass. Ready-made clothing for men, youths, and boys.	27,800	Feb. 18	74	959
Cushman Drug Co., Vincennes, Ind., and Chicago, Ill. Headache, neuralgia, catarrh, hay-fever, asthma, colds, sore throat, gripple, and other affections of the air-passages.	28,088	Apr. 7	75	179
Cutaway Harrow Company, Higganum, Conn. Harrows, revolving plows, cultivators, and seeders.	28,461	June 23	75	2006
D. S. McDonald Company, Boston, Mass. Fruit-syrups and extracts for beverages.	28,715	Aug. 4	76	783

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Dairy Improvement Company, New York, N. Y. Beverages made from whey and other waste products of the dairy	28,741	Aug. 11	76	958
Dalsimer & Sons, Sylvan, Philadelphia, Pa. Medicated toilet powder	28,302	May 26	75	1356
Dana, Richard H. C. (See Healy and Dana.)				
Dangler Stove and Manufacturing Company, Cleveland, Ohio. Hydrocarbon-burners in which petroleum-oil is used	28,109	Apr. 7	75	182
David B. Crockett Company, Bridgeport, Conn. Composition coating or varnishes	28,385	June 16	75	1849
Davis & Co., Curtis, Cambridge, Mass. Soap	29,070	Nov. 3	77	806
Davis & Co., Curtis, Cambridge, Mass. Soap	29,318	Dec. 15	77	1779
Davis & Co., Curtis, Cambridge, Mass. Soap	29,319	Dec. 15	77	1779
Davis & Co., Curtis, Cambridge, Mass. Soap	29,320	Dec. 15	77	1779
Davis & Co., Curtis, Cambridge, Mass. Soap	29,321	Dec. 15	77	1780
Davis Sewing Machine Company, Dayton, Ohio. Bicycles	28,149	Apr. 14	75	345
Davis Sewing Machine Company, Dayton, Ohio. Sewing-machines and attachments	29,238	Dec. 1	77	1425
Davis, Walter E., Chicago, Ill. Bicycles and parts thereof	28,575	July 7	76	162
Dazian & Burchell Bros., New York, N. Y. Umbrellas and parasols	29,027	Oct. 20	77	450
Deering Harvester Company, Chicago, Ill. Binding-twine	28,981	Oct. 13	77	309
De Jarnatt, John L., Los Angeles, Cal. Liniment	28,837	Sept. 1	76	1414
Deitsch, Charles and E. J., New York, N. Y. Sterling-silver goods, leather goods, toilet articles, and stationery articles	28,860	Sept. 8	76	1571
Deitsch, Charles and E. J., New York, N. Y. Sterling-silver goods, leather goods, toilet articles, and stationery articles	28,861	Sept. 8	76	1571
Deitsch, Edward J. (See Deitsch, Charles and E. J.)				
Delacamp & Co., New York, N. Y. Matches	28,060	Mar. 31	74	1896
Deming Company, Salem, Ohio. Spraying-nozzles	28,756	Aug. 11	76	960
Deming & Gould Company, Chicago, Ill. Strained honey	28,716	Aug. 4	76	783
Dempsey & Co., P., Lowell, Mass. Gin	28,570	July 7	76	161
Densmore, Emmet and H., New York, N. Y. Herb and fruit medicine	28,504	June 30	75	2191
Densmore, Emmet and H., New York, N. Y. Medicine composed mainly of herbs	28,508	Oct. 6	77	150
Densmore, Helen. (See Densmore, Emmet and H.)				
Detchen, Irwin A., Crawfordsville, Ind. Remedies for female complaints, tonics, tablets, pills, powders, bleaches, and cosmetics	28,548	July 7	76	159
Dewell & Co., J. D., New Haven, Conn. Purveyor's goods	27,780	Feb. 11	74	805
Dewell & Co., J. D., New Haven, Conn. Cigarettes and tobacco	27,923	Mar. 10	74	1437
Diamond Compound Co., of Newark, N. J., and Chicago, Ill. Grease, oils, and other lubricants	28,768	Aug. 18	76	1111
Diamond Dust Soap Powder Company, Savannah, Ga. Soap powder	27,602	Jan. 7	74	139
Diamond Dust Soap Powder Company, Savannah, Ga., Philadelphia, Pa., and Baltimore, Md. Jelly soap	28,817	Aug. 25	76	1271
Diamond Ink Co., Milwaukee, Wis. Mucilage, paste, and glue	29,050	Oct. 27	77	638
Dickey & Sons, W. J., Baltimore, Md. Kerseys and cassimeres	28,333	June 2	75	1544
Dickson & Beaning, Indianapolis, Ind. Bicycle-saddles	28,800	Aug. 18	76	1114
Dilworth, Henry C., New York, N. Y. Jars and bottles	28,765	Aug. 11	76	957
Dimmick, Ammi D., Oneonta, N. Y. Remedy for kidney diseases	28,033	Mar. 31	74	1896
Dithridge & Co., Pittsburg, Pa. Lamp-chimneys	28,414	June 16	75	1852
Dixon & Co., Emmett E., Gainesville, Ga. Remedy for colds, la grippe, influenza, hay-fever, and kindred ailments	29,231	Dec. 1	77	1424
Dizer & Co., Marshall C., Weymouth, Mass. Leather and leather boots and shoes	28,863	Sept. 8	76	1571
Dodge, Elizabeth W., Lemoore, Cal. Animal and bird poison	28,085	Apr. 7	75	179
Dole, John W., Boston, Mass. Candy	28,093	Apr. 7	75	180
Dole, John W., Boston, Mass. Candy	28,775	Aug. 18	76	1112
Douglas, Frank W., New York, N. Y. Imported cement	28,598	July 14	76	331
Dowdle, Joel S. (See Goswell, Polk, and Dowdle.)				
Dowsley, Robert N., Athens, Canada. Household remedies	29,305	Dec. 15	77	1778
Dr. B. J. Kay Medical Company, Omaha, Nebr. Tonic, alterative, and laxative medicine	27,703	Jan. 22	74	492
Dr. B. J. Kay Medical Company, Omaha, Nebr. Anodyne expectorant	28,913	Sept. 29	76	2005
Dr. Miles Medical Company, Elkhart, Ind. Pills	28,640	July 21	76	472
Dr. Miles Medical Company, Elkhart, Ind. Plasters	28,641	July 21	76	472
Drake, John K., Troy, N. Y. Foot-powders, lotions, and ointments	27,708	Jan. 28	74	493
Drake, Louis, Philadelphia, Pa. Pens	29,114	Nov. 10	77	968
Dresser, Frederick, Liverpool, England. Laminated or foliated rice	28,156	Apr. 21	75	504
Drewry & Sons, St. Paul, Minn. Carbonated beverage, cordial, and syrup	28,686	July 28	76	607
Dryer, Margaret, Owensborough, Ky. Remedy for dysentery or bowel complaints	29,259	Dec. 8	77	1591
Duché & Sons, T. M., London, England, and New York, N. Y. Capsules for medicine	28,819	Aug. 25	76	1271
Dueber Watch Case Manufacturing Company, Canton, Ohio. Bicycles	28,611	July 14	76	332
Dueber Watch Case Manufacturing Company, Canton, Ohio. Bicycles	28,666	July 21	76	474
Dugan & Hudson, Rochester, N. Y. Shoes	28,426	June 23	75	2004
Duncan, Worth, Paris, Tex. Laundry soap	28,818	Aug. 25	76	1271
Dunlap & Company, New York, N. Y. Men's, boys', and women's hats and caps	29,342	Dec. 29	77	2130
Dunlop Pneumatic Tyre Company, Limited, London, England. Vehicle-tires and parts thereof	29,240	Dec. 1	77	1425
Dunan, Perle P., Baltimore, Md. Guano, phosphates, superphosphates, and similar compounds	28,365	June 9	75	1702
Durant, Frederick C., New York, N. Y. Tools and appliances for mending bicycles	28,372	June 9	75	1702
Durkee & Co., E. R., New York, N. Y. Spices, condiments, and bird-food	29,274	Dec. 8	77	1592
Durkee & Co., E. R., New York, N. Y. Spices, condiments, and bird-food	29,275	Dec. 8	77	1593
Durkee & Co., E. R., New York, N. Y. Spices, condiments, and bird-food	29,276	Dec. 8	77	1593
Durkee & Co., E. R., New York, N. Y. Spices, condiments, and bird-food	29,277	Dec. 8	77	1593
Duryea & Co., New York, N. Y. Corn-flour and corn-starch	28,125	Apr. 14	75	343
Dutemple, William R., Providence, R. I. Artificial-diamond gems	28,874	Sept. 8	76	1372
Dwight & Co., John, New York, N. Y. Soda, saleratus, and baking-powder	29,224	May 5	75	831
E. Alsiorf Company, Newark, N. J. Bicycles, velocipedes, and similar articles	28,151	Apr. 14	75	346
E. B. Millar & Company, Chicago, Ill. Japan teas	29,038	Oct. 27	77	137
E. C. Atkins & Company, Indianapolis, Ind. Saws	28,557	Sept. 1	76	1416
E. de la Chapelle & Company, Ottawa, Ill. Glassware	28,535	July 7	76	158
E. de la Chapelle & Company, Ottawa, Ill. Glassware	28,536	July 7	76	158
E. E. Sutherland Medicine Company, Paducah, Ky. Ointments, remedies for coughs and kindred complaints, colic, cholera, diarrhea, and liver diseases	28,281	May 19	75	1199
E. E. Sutherland Medicine Company, Paducah, Ky. Remedies for colic, cholera, diarrhea, and constipation	28,639	July 21	76	472
E. S. Wheeler & Company, New Haven, Conn. Tin-plate in sheets	28,457	June 23	75	2006
E. S. Wheeler & Company, New Haven, Conn. Tin-plate in sheets	28,664	July 21	76	474
E. S. Wheeler & Company, New Haven, Conn. Tin-plate in sheets	28,628	Aug. 25	76	1272
E. Seidenberg, Stiefel & Company, New York, N. Y. Cigars	28,588	July 14	76	331
Eagle Chemical Co., Findlay, Ohio. Compound for closing punctures in pneumatic tires	28,801	Aug. 18	76	1114
Earl & Wilson, Troy, N. Y. Collars and cuffs	28,890	Sept. 29	76	2002
Eastern Cycle Manufacturing Company, Amesbury, Mass. Bicycles and parts thereof	28,291	May 19	75	1200

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Eastern Granite Roofing Company, Jersey City, N. J. Composition felt and gravel roofing.....	28,542	July 7	76	158
Eastern Paper Company, Springfield, Mass. Paper and envelopes.....	28,382	June 16	75	1848
Eastman Kodak Company, Rochester, N. Y. Photographic cameras.....	27,871	Feb. 25	74	1119
Eastwood, Wyndham H. (See Crandal, Eastwood, Niles, and Wilkinson.)				
Eavenson & Sons, J., Philadelphia, Pa. Soap in bars, cakes, or powdered form.....	28,276	May 19	75	1198
Eberhardt, Christian, Tivoli, N. Y. Cough-drops.....	28,061	Mar. 31	74	1896
Eddystone Manufacturing Company, Philadelphia, Pa. Printed woven fabrics.....	29,159	Nov. 17	77	1120
Edgemont Stone Company, Omaha, Nebr. Natural building-stone.....	27,906	Mar. 3	74	1275
Edgemont Stone Company, Omaha, Nebr. Natural grindstone.....	27,907	Mar. 3	74	1275
Edison & Swan United Electric Light Company, Limited, London, England. Lamps, holders, switches, and appliances generally for electrical illumination.....	28,402	June 16	75	1551
Edison & Swan United Electric Light Company, Limited, London, England. Electric lamps, holders, switches, and appliances generally for electric illumination.....	28,571	July 7	76	161
Edward R. Marshall Co., Philadelphia, Pa. Ointment for toilet purposes.....	29,360	Dec. 29	77	2131
Edwards & Co., William, Cleveland, Ohio. Certain named articles designated groceries.....	29,201	Nov. 24	77	1268
Edwards, Firm of William D. & Clark S., Detroit, Mich. Coffee.....	27,993	Mar. 24	74	1726
Egersdorff, Louise J., Chicago, Ill. Remedy for tapeworms.....	27,804	Feb. 18	74	959
Ehret, George, New York, N. Y. Lager-beer.....	28,360	June 9	75	1701
Eisenman & Co., Charles, Cleveland, Ohio. Shirts, waists, and blouses for men and boys.....	27,986	Mar. 24	74	1726
Electric Arc Light Company, New York, N. Y. Electric lamps, fixtures, and devices.....	28,289	May 19	75	1199
Electric Emery Wheel Company, Newark, N. J. Emery and corundum wheels.....	28,973	Oct. 6	77	152
Electrische Zinkwerke Gesellschaft mit Beschränkter Haftung, Duisburg, Germany. Zinc plates and purple ore bricks.....	28,873	Sept. 8	76	1572
Electro Silicon Company, New York, N. Y. Cleaning and polishing powders and soaps.....	29,233	Dec. 1	77	1424
Electrozone Company, New York, N. Y. Disinfectant, deodorizer, and bleaching liquid.....	28,189	Apr. 28	75	671
Elgin, Norman B. (See Moore and Elgin.)				
Elliman Sons & Co., Slough, England. Embrocation.....	29,094	Nov. 3	77	809
Elliott, Laura P., Newton, Mass. Hair and scalp remedies.....	29,359	Dec. 29	77	2131
Ellshunt Medicine Co., Des Moines, Iowa. Cough mixtures, blood-purifiers, powders, liniments, pills, syrups, extracts, tonics, and bitters.....	28,992	Oct. 13	77	310
Elmwood Cycle Company, New York, N. Y. Bicycles.....	28,405	June 16	75	1851
Ely & Walker Dry Goods Company, St. Louis, Mo. Hosiery and similar knit goods.....	27,662	Jan. 21	74	374
Embalmers Supply Company, Westport, Conn., New York, N. Y., and St. Louis, Mo. Embalming fluids.....	29,130	Nov. 10	77	969
Emerson Company, Baltimore, Md. Drying-kilns.....	28,292	May 19	75	1200
Emerson, Louisa, Natick, Mass. Soap powder.....	28,965	Oct. 6	77	151
England, Henry C., Reading, Pa. Bicycles.....	29,125	Nov. 17	77	1122
English Diastase Malt Extract Company, Limited, Mistle, England. Malt extracts.....	28,711	Aug. 4	76	783
Enterprise Specialty Company, New York, N. Y. Matches.....	29,393	Dec. 29	77	2135
Erie Preserving Company, Buffalo, N. Y. Prepared hominy or maize.....	28,158	Apr. 21	75	504
Esche, Firm of Maurice S., Chemnitz, Germany. Gloves and hosiery.....	29,297	Dec. 15	77	1777
Esche, Firm of Maurice S., Chemnitz, Germany. Hosiery and gloves.....	29,327	Dec. 22	77	1934
Eschmann, Frederick W. R., Yonkers, N. Y. Antiseptic and germicidal preparation.....	28,047	Mar. 31	74	1895
Eschmann, Frederick W. R., Yonkers, N. Y. Dietetic compound in liquid or a powder.....	28,343	June 2	75	1545
Estelle, John C., Norfolk, Va. Oils for internal and external use.....	29,351	Dec. 29	77	2131
Estes, Llewellyn W., Washington, D. C. Blood-purifier and liver-regulator.....	28,546	July 7	76	159
Evansville Woolen Mill Company, Evansville, Ind. Jeans or doeskins and chevots.....	28,420	June 23	75	2003
Everard, James, New York, N. Y. Ale and porter.....	28,268	May 19	75	1197
Ewart & Co., S., Pittsburg, Pa. Tobies.....	29,148	Nov. 10	77	971
F. Kroeber Clock Company, New York, N. Y. Clock-movements.....	28,793	Ang. 18	76	1114
F. W. Devoe & C. T. Reynolds Company, New York, N. Y. Varnishes, oils, wood-fillers, and analogous goods.....	27,904	Mar. 3	74	1274
Fabery, Robert, Boston, Mass. Medicinal preparations containing iron or manganese.....	29,194	Nov. 24	77	1267
Fairchild Bros. & Foster, Elizabeth, N. J., and New York, N. Y. Remedy for dyspepsia.....	28,285	May 19	75	1199
Fairchild, Solomon R., Tacoma, Wash. Assessment and tax ledgers.....	29,115	Nov. 10	77	968
Falck & Co., F. L., Pittsburg, Pa. Laundry soap.....	28,004	Apr. 7	75	180
Falcon Packing Co., New York, N. Y. Olives, olive-oil, French peas, and macaroni.....	29,387	Dec. 29	77	2135
Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Dyestuffs.....	28,432	June 23	75	2004
Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Pharmaceutical product used as a substitute for sugar.....	28,502	June 30	75	2191
Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Substitute for sugar.....	29,314	Dec. 15	77	1779
Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Dyestuffs.....	29,323	Dec. 15	77	1780
Farbwerk Friedrichsfeld, Dr. Paul Remy, Mannheim, Germany. Hog remedies.....	29,177	Nov. 17	77	1121
Farbwerk Friedrichsfeld, Dr. Paul Remy, Mannheim, Germany. Preventive against animal diseases.....	29,178	Nov. 17	77	1122
Farguhar & Co., R. & J., Boston, Mass. Flowering bulbs.....	28,468	June 30	75	2188
Farina, Johann M., Cologne, Germany. Cologne-water.....	28,656	July 21	76	473
Faulkner, Charles S., Philadelphia, Pa. Bicycles.....	28,373	June 9	75	1702
Faultless Chemical Company, Baltimore, Md. Chewing gum.....	28,621	July 21	76	470
Fay, Alpheus, and J. McNab, Cincinnati, Ohio. Bicycles.....	28,798	Aug. 18	76	1114
Fayerweather & Ladew, New York, N. Y. Power-beltting.....	28,933	Oct. 13	77	309
Fayerweather & Ladew, New York, N. Y. Power-beltting.....	28,984	Oct. 13	77	309
Feder, Harry, New York, N. Y. Braids, tapes, or bindings for protecting the edges or seams of garments.....	28,008	Mar. 24	74	1728
Feeney, Daniel M., Philadelphia, Pa. Whisky.....	28,743	Aug. 11	76	958
Feidt, George D., Philadelphia, Pa. Cough lozenge or drop.....	27,672	Jan. 21	74	375
Fernow, John A. W., St. Louis, Mo. Remedies for headache, neuralgia, and insomnia.....	28,064	Mar. 31	74	1896
Feuchtwanger & Co., L., New York, N. Y. Manganese ores.....	28,460	June 23	75	2006
Field & Co., Marshall, Chicago, Ill. Cotton goods.....	28,576	July 14	76	330
Field & Co., Marshall, Chicago, Ill. Certain named dry goods.....	28,577	July 14	76	330
Field & Co., Marshall, Chicago, Ill. Certain named fancy goods and notions.....	28,578	July 14	76	330
Field & Co., Marshall, Chicago, Ill. Certain named dry goods.....	28,579	July 14	76	330
Field & Co., Marshall, Chicago, Ill. Certain named dry goods.....	28,580	July 14	76	330
Field & Co., Marshall, Chicago, Ill. Cotton flannels.....	28,581	July 14	76	330
Fincks Sons, A., Syracuse, N. Y. Overgaiters, leggings, shoe nails, pegs, dressing, cement, blacking, ink, insoles, and laces.....	29,256	Dec. 8	77	1591
Fischer Chemical Importing Company, New York, N. Y. Pharmaceutical preparations in capsules.....	28,748	Aug. 11	76	959
Fisher, Hart C., Chicago, Ill. Tea.....	27,773	Feb. 11	74	804
Fisher, Hart C., Chicago, Ill. Tea.....	27,774	Feb. 11	74	804
Fitch, Elijah S., Bay City, Mich. Disinfectant and an antiseptic.....	28,500	June 30	75	2191
Fitzgerald, Ransom N., Hartford, Conn. Salt, sugar, and spices or other condiments, excepting baking-soda, salaratus, and baking-powders.....	28,879	Sept. 15	76	1710
Fitzpatrick, Thomas B., Boston, Mass. Waists for women and children.....	28,544	July 14	76	330
Fitzpatrick, Thomas B., Boston, Mass. Underwaists for women and children.....	28,705	Aug. 4	76	782

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Fletcher, Edward C., Titusville, Pa. Chewing-gum	28,447	June 23	75	2005
Fletcher, Frederick W., London, England. Preparation of ethyl nitrite	27,616	Jan. 7	74	141
Flint Road Cart Company, Flint, Mich. Wagons, carts, carriages, and other road-vehicles	28,797	Aug. 18	76	1114
Flügg & Co., Frankfort-on-the-Main, Germany. Pharmaceutical preparations containing myrrh	29,171	Nov. 17	77	1121
Flynn, George W., Boston, Mass. Emollient jelly for external application	27,670	Jan. 21	74	375
Foerderer, Robert H., Philadelphia, Pa. Dressings and polishes for shoes	29,188	Nov. 17	77	1122
Foley, George H., Philadelphia, Pa. Bicycles	27,657	Jan. 14	74	268
Foot, Schulze & Co., St. Paul, Minn. Boots and shoes	28,075	Apr. 7	75	178
Ford, William W., Carthage, Tenn. Twist-tobacco	27,924	Mar. 10	74	1437
Forest City Electric Company, Cleveland, Ohio. Commutator-bars	28,183	Apr. 21	75	506
Forest City Chemical Gum Co., Portland, Me. Chewing-gum	29,045	Oct. 27	77	628
Forster, James, London, England. Caustic soda	27,598	Mar. 3	74	1274
Forzly & Co., George, New York, N. Y. Razors	28,297	May 26	75	1356
Fosmer, William H., Chicago, Ill. Milk, cream, and the products thereof	28,420	June 30	75	2189
Foster & Bailey, Providence, R. I. Gold, sterling-silver, and plated jewelry and silverware	28,069	Apr. 7	75	178
Foster & Bailey, Providence, R. I. Gold, sterling-silver, and plated jewelry and silverware	28,070	Apr. 7	75	178
Foster & Co., John, Beloit, Wis. Boots and shoes	28,056	Mar. 31	74	1895
Foster & Co., John, Beloit, Wis. Boots and shoes	28,057	Mar. 31	74	1895
Fowler Bros., Limited, New York, N. Y., and Chicago, Ill. Hams	27,597	Jan. 7	74	139
Fowler Bros., Limited, New York, N. Y., and Chicago, Ill. Hams	27,649	Jan. 14	74	267
Fox, Thomas B., Flagstaff, Ariz. Ter. Tonic and bitters	28,133	Apr. 14	75	344
Francis-Frost Company, Limited, Toronto, Canada. Ready-mixed paints	29,237	Dec. 1	77	1425
Fraser, Russell, Brooklyn, N. Y. Wire	29,030	Oct. 20	77	450
Frazer Lubricator Company, Chicago, Ill., New York, N. Y., and St. Louis, Mo. Axle-grease	28,650	July 21	76	473
Freedom Oil Works Company, Freedom, Pa. Illuminating-oils	28,361	June 9	75	1702
Freedom Oil Works Company, Freedom, Pa. Illuminating-oils	28,362	June 9	75	1702
Freeman, Daniel A., Boston, Mass. Bicycles and similar vehicles	28,673	July 28	76	605
Freeman, Ives & Co., Little Falls, N. Y. Cheese	28,271	May 19	75	1198
Freeman Milling Company, West Superior, Wis. Middlings	29,383	Dec. 29	77	2134
Freiberg & Workum, Cincinnati, Ohio. Whisky	28,036	Mar. 31	74	1894
French Manufacturing Co., Philadelphia, Pa. Substitute for eggs	29,039	Oct. 27	77	627
Frese, Herman J. (See Haurwitz and Frese.)				
Frictionless Metal Company, Richmond, Va. Alloy for bearings for journals and other mechanisms	28,753	Aug. 11	76	959
Fritzsche & Co., Franz, Hamburg, Germany. Antiseptics, perfumery, and other similar compounds	28,750	Aug. 11	76	959
Frowne, John J., Cleveland, Ohio. Metals for linotyping, stereotyping, and electrotyping	29,058	Oct. 27	77	630
Frye Caramel Company, Chicago, Ill. Mixed candies	28,776	Aug. 18	76	1112
Fuchs & Lang Manufacturing Company, Brooklyn and New York, N. Y. Lithographic ink	28,026	Mar. 31	74	1893
Fuller, Howard N., Albany, N. Y. Wheat-flour	28,237	May 12	75	991
Furness, Frank, Philadelphia, Pa. Enamel paint	27,733	Feb. 4	74	649
G. C. Liszka, Incorporated, Brooklyn, N. Y. Paints, driers, and varnishes	28,515	June 30	75	2192
Gallagher, Charles J., Philadelphia, Pa. Whisky	29,269	Dec. 8	77	1592
Gamble, Isaiah L., Detroit, Mich. Tonics	27,897	Mar. 3	74	1274
Gandolfi, Moss & Co., Buenos Ayres, Argentine Republic, Paris, France, and Genoa, Italy. Kerosene, resin, fire-crackers, axle-grease, lubricants, lard, oysters, lobsters, and timber	27,970	Mar. 17	74	1585
Gardiner, George N., New York, N. Y. Antifouling compositions for bottoms of steel and iron ships	28,751	Aug. 11	76	959
Gardiner, George N., New York, N. Y. Anticorrosive compositions for the bottoms of steel and iron ships	28,824	Aug. 25	76	1272
Garland, Clarence J., Seattle, Wash. Salves	27,707	Jan. 28	74	493
Garrett Bros., Anburn, Ind. Washing-powder	28,498	June 30	75	2190
Garrett & Sons, W. E., Philadelphia, Pa. Snuff	28,338	June 2	75	1545
Gas Light and Coke Company, London, England. Chemical substances and preparations which are coal derivatives	27,612	Jan. 7	74	140
Gebhart & Co., Dayton, Ohio. Pickles, chow-chow, and like relishes	27,696	Jan. 28	74	492
Geist, George F. and J. W., Chicago, Ill. Horse and cattle feed	28,624	July 21	76	470
Geist, John W. (See Geist, George F. and J. W.)				
Gen City Stove Manufacturing Company, Quincy, Ill. Heating-stoves	28,054	Mar. 31	74	1895
Gendron Wheel Company, Toledo, Ohio. Bicycles	28,832	Aug. 25	76	1272
George & Co., P. T., Baltimore, Md. Hams, shoulders, and breakfast-bacon	28,695	July 28	76	608
George & Co., P. T., Baltimore, Md. Hams, shoulders, sides, bacon, and lard	28,696	July 28	76	608
George F. Blake Manufacturing Company, New York, N. Y. Pumps and engines	28,615	July 14	76	332
George F. Blake Manufacturing Company, New York, N. Y. Pumps and engines	28,872	Sept. 8	76	1572
George Frost Company, Boston, Mass. Liquid antiseptic court-plaster	29,182	Nov. 17	77	1122
Germani, Firm of G., Radebeul, Germany. Pharmaceutical preparations in the form of tablets	28,501	June 30	75	2191
Germani Wine Cellars, Hammondsport, N. Y. Wines	28,568	July 7	76	161
Gilbert Benjamin S., York, Pa. Uncions for eradication of cutaneous diseases	27,962	Mar. 17	74	1585
Gilbert Bros. & Co., Boston, Mass. Mordants for dyeing purposes	27,668	Jan. 21	74	375
Gilbert Bros. & Co., Boston, Mass. Mordants for dyeing purposes	27,732	Feb. 4	74	649
Gilliersleeve, Augustus, Newark, N. J. Liniment	29,350	Dec. 29	77	2131
Gilli: Wine Importing Co., Buffalo, N. Y. Whisky	28,340	June 2	75	1543
Gilloy, John E., Brussels, Belgium. Toilet soap	28,654	July 21	76	473
Glenale Elastic Fabrics Company, Easthampton and Boston, Mass. Elastic fabrics known as goring	27,637	Jan. 14	74	266
Glenwood Hot Springs Company, Glenwood Springs, Colorado. Mineral water	28,629	July 21	76	471
Glover & Co., W. T., London, England. High-resistance electrical conductors	29,110	Nov. 3	77	810
Golden Lavative Coffee Co., Ayer, Mass. Prepared coffee	27,993	Mar. 3	74	1274
Goldmark, James, and W. J. Wallace, New York, N. Y. Electric rotary fans	28,947	Oct. 6	77	150
Goldschmidt, Firm of Th., Essen-on-the-Ruhr, Germany. Salt that serves as a covering layer for molten zinc and tin	29,282	Dec. 8	77	1593
Goodyear Shoe Machinery Company, Portland, Me. Shoe-tacks	27,663	Jan. 21	74	376
Gordon, Jonathan R., New York, N. Y. Medicated tablets	28,554	July 7	76	160
Gordon & Ferguson, St. Paul, Minn. Hats and caps	28,422	June 23	75	2005
Goswell, Joseph P., W. J. Polk, and J. S. Dowdle, Nashville, Ark. Soap put up in sacks	28,337	June 2	75	1545
Gothelf, Joseph B., Memphis, Tenn. External remedy for headache	29,043	Oct. 27	77	628
Gottschall, Amos H., Harrisburg, Pa. Certain named medicines, extracts, and oils	28,048	Mar. 31	74	1895
Gould Coupler Company, New York and Depew, N. Y. Car buffers, platforms, and couplings, and parts thereof	27,724	Jan. 28	74	494
Gow & Ross, Dundee, Scotland. Whisky	27,692	Jan. 28	74	491
Gowen, Harry W., Boston, Mass. Prepared blanc-mange	27,892	Mar. 3	74	1273
Gramly, Beck & Co., Rebersburg, Pa. Compound for removing paint from wood or metal	28,752	Aug. 11	76	959
Grand Rapids Cycle Company, Grand Rapids, Mich. Bicycles	28,051	Mar. 31	74	1895
Grand Rapids Sweeper Company, Grand Rapids, Mich. Carpet-sweepers	28,827	Aug. 25	76	1272
Grant, James W., San Francisco, Cal. Capsules	28,139	Apr. 14	75	344

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Name, residence, and title.	No.	Date.	Official Gazette.	
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Grasselli Chemical Company, Cleveland, Ohio. Soldering-flux.....	27,947	Mar. 10	74	1440
Graves, Gilbert S., Buffalo, N. Y. Corn-starch.....	28,017	Mar. 24	74	1729
Gray, James M., Washington, N. C. Baking-powder, soap, and flour	28,128	Apr. 14	75	343
Greasley, James S., Harrisburg, Pa. Compounds for making non-alcoholic drinks.....	28,934	Oct. 6	77	149
Green, Frank P., New York, N. Y. Needles.....	27,716	Jan. 28	74	493
Green, Lorenzo L., Boston, Mass. Knives and groovers for shoe-channeling machines	28,454	June 23	75	2006
Greenberg, Charles F., Scranton, Pa. Soap.....	29,336	Dec. 22	77	1935
Greene, David H., Baltimore, Md. Powdered soap for toilet use.....	28,552	July 7	76	160
Greer, James B., Pittsburg, Pa. Anti-incrustation compounds.....	28,644	July 21	76	472
Gregory, Joseph, New York, N. Y. Lamp-burners.....	28,521	June 30	75	2192
Griffin, George W., Nagent, La. Medicine for coughs and lung troubles and for liver and kidney diseases.....	28,013	Mar. 24	74	1728
Griffin Machine Works, P. H., Buffalo, N. Y. Car-wheels.....	28,111	Apr. 7	75	182
Griswold, Alfred H., Troy, N. Y. Remedy for croup.....	28,136	Apr. 14	75	344
Gronseth & Olsen, Duluth, Minn. Wheat-flour, coffee, potato-flour, starch, soaps, syrups, salaratus, and cigars.....	29,280	Dec. 8	77	1593
Grout & Grout, Orange, Mass. Bicycles, tricycles, and all vehicles propelled by motive power	28,462	June 23	75	2006
Grossman, Michaelsohn & Co., Chicago, Ill. Men's clothing.....	28,617	July 21	76	470
Grove Company, Salem, Ohio. Chewing-gum.....	29,322	Dec. 15	77	1780
Grunman, Franklin, New York, N. Y. Laxative tablets.....	27,856	Feb. 25	74	1118
Gunn, Daniel B., Red Oak, Iowa. Gloves and mittens.....	28,121	Apr. 14	75	342
Gurney Heater Manufacturing Company, Boston, Mass. Radiators and boilers.....	27,698	Jan. 7	74	142
Gurney Heater Manufacturing Company, Boston, Mass. Steam and hot-water boilers.....	27,913	Mar. 3	74	1275
Gwyer, Frederick S., New York, N. Y. Nails and tacks.....	27,829	Feb. 18	74	961
H. C. Tack Company, Cleveland, Ohio. Tacks.....	27,910	Mar. 3	74	1275
H. Channon Company, Chicago, Ill. Transmission-rope.....	28,952	Oct. 13	77	309
H. Koehler & Company, New York, N. Y. Lager-beer.....	27,745	Feb. 4	74	659
H-O (Hornby's Oatmeal) Company, New York, N. Y. Farinaceous food products.....	29,228	Dec. 1	77	1424
H. W. Johns Manufacturing Company, Jersey City, N. J., and New York, N. Y. Non-heat-conducting coverings for steam-pipes, boilers, &c.....	27,663	Jan. 21	74	374
Haas Bros., New York, N. Y. Tea.....	28,762	Aug. 18	76	1112
Haas Bros., New York, N. Y. Tea.....	28,783	Aug. 18	76	1112
Haas, Hiram M., Sunbury, Pa. Wheat-flour.....	27,868	Feb. 25	74	1119
Hafer, Bernetta, Los Angeles, Cal. Lotion for the skin and hair.....	29,358	Dec. 29	77	2131
Hage & Co., J. D., New York, N. Y. Sugar syrups.....	29,375	Dec. 29	77	2133
Hage & Co., J. D., New York, N. Y. Sugar syrups.....	29,376	Dec. 29	77	2133
Hage & Co., J. D., New York, N. Y. Sugar syrups.....	29,377	Dec. 29	77	2133
Hage & Co., J. D., New York, N. Y. Sugar syrups.....	29,378	Dec. 29	77	2134
Hahn, Frederick W., New York, N. Y. Horseshoes.....	28,404	June 16	75	1851
Hahn, Richard, Brooklyn, N. Y. Remedy for diseases of the throat and lungs.....	27,926	Mar. 10	74	1437
Haight Fruit Co., Redlands, Cal. Lemons and oranges.....	27,647	Jan. 14	74	267
Hall, Eliza N., New York, N. Y. Lye and caustic potash.....	28,486	June 30	75	2189
Hall, Eliza N., New York, N. Y. Lye and caustic potash.....	28,487	June 30	75	2190
Hall, Eliza N., New York, N. Y. Lye and caustic potash.....	28,488	June 30	75	2190
Hall, Eliza N., New York, N. Y. Lye and caustic potash.....	29,234	Dec. 1	77	1424
Hall, Eliza N., New York, N. Y. Lye and caustic potash.....	29,235	Dec. 1	77	1425
Hall, Frank A., New York, N. Y. Beds and bedding.....	28,620	July 21	76	470
Halsted, George W., Glidden, Iowa. Vegetable compound for the cure of liver, kidney, and other complaints.....	29,012	Oct. 20	77	449
Hamburger & Company, New York, N. Y. Tooth-brushes.....	28,851	Sept. 1	76	1415
Hamburger & Company, New York, N. Y. Tooth-brushes.....	28,852	Sept. 1	76	1415
Hamburger & Company, New York, N. Y. Tooth-brushes.....	28,986	Oct. 13	77	310
Hamburger & Company, New York, N. Y. Tooth-brushes.....	28,987	Oct. 13	77	310
Hamburger & Company, New York, N. Y. Tooth-brushes.....	28,988	Oct. 13	77	310
Hamburger & Company, New York, N. Y. Tooth-brushes.....	28,989	Oct. 13	77	310
Hamburger & Company, New York, N. Y. Tooth-brushes.....	28,990	Oct. 13	77	310
Hamburger & Company, New York, N. Y. Tooth-brushes.....	28,991	Oct. 13	77	310
Hamburger & Company, New York, N. Y. Tooth-brushes.....	29,301	Dec. 15	77	1778
Hamburger & Company, New York, N. Y. Tooth-brushes.....	29,302	Dec. 15	77	1778
Hamburger & Company, New York, N. Y. Tooth-brushes.....	29,303	Dec. 15	77	1778
Hamburger & Company, New York, N. Y. Tooth-brushes.....	29,304	Dec. 15	77	1778
Hamilton, Brown Shoe Company, St. Louis, Mo. Women's shoes.....	29,120	Nov. 10	77	968
Hamilton, Brown Shoe Company, St. Louis, Mo. Men's shoes.....	29,222	Dec. 1	77	1423
Hamilton, Brown Shoe Company, St. Louis, Mo. Men's shoes.....	29,223	Dec. 1	77	1423
Hamilton Cycle Co., Hamilton, Ohio. Bicycles and their parts.....	27,722	Jan. 28	74	494
Hamilton Tube Company, Hamilton, Ohio. Bicycles and parts thereof.....	28,299	May 26	75	1356
Hammer, Frederick H., San Francisco, Cal. Certain named vegetables and fruits.....	29,308	May 26	75	1357
Hammond, George J., Wayne county, Mich. Extract of beef.....	28,454	June 30	75	2189
Hampden Watch Company, Canton, Ohio. Watch-movements.....	28,250	May 12	75	992
Hanan & Son, Brooklyn, N. Y. Shoes for men and boys.....	29,158	Nov. 17	77	1120
Hance Bros. & White, Philadelphia, Pa. Toilet soaps.....	29,909	Sept. 29	76	2004
Hance Bros. & White, Philadelphia, Pa. Remedies for common and simple disorders.....	29,131	Nov. 10	77	969
Hance Bros. & White, Philadelphia, Pa. Vermifugal remedies.....	29,356	Dec. 29	77	2131
Hance, Charles H., Los Angeles, Cal. Cream for the skin, toilet soaps, perfumes, face-powders, and lotions.....	28,247	May 12	75	992
Handy, Herbert L., Springfield, Mass. Remedy for rheumatism.....	29,013	Oct. 20	77	449
Hardt & Lindgens, New York, N. Y. Velvetens.....	28,733	Aug. 11	76	957
Hardtmuth & Co., F., Vienna, Austria-Hungary. Carbon rods for electric-arc lamps.....	27,796	Feb. 11	74	806
Hardy Cycle Company, New York, N. Y. Bicycle.....	28,520	June 30	75	2192
Harned, Frank P., Merchantville, N. J. Astringent sticks for barbers' and shavers' use.....	28,141	Apr. 14	75	344
Harris & Bro., Robert, Reidsville, N. C. Plug-out tobacco.....	28,622	July 21	76	470
Harrison Bros. & Co., Philadelphia, Pa. Paints, stains, fillers, japans, varnishes, and similar articles.....	27,853	Feb. 25	74	1117
Harrison Bros. & Co., Philadelphia, Pa. Paints, stains, fillers, japans, and varnishes.....	28,002	Mar. 24	74	1727
Harrison Bros. & Co., Philadelphia, Pa. Paint and varnish removers.....	29,256	Dec. 8	77	1593
Harrison Brothers & Co., Philadelphia, Pa. Alum.....	29,363	Dec. 29	77	2132
Hart & Hegeman Manufacturing Company, Hartford, Conn. Certain designated electrical appliances.....	29,217	Nov. 24	77	1270
Hartford Rubber Works Company, Hartford, Conn. Pneumatic tires of the single-tube variety.....	29,974	Oct. 6	77	152
Hartman, Leopold, New York, N. Y. Gas-fixtures for incandescent gas-lamps.....	29,151	Nov. 10	77	971
Hartman, Leopold, New York, N. Y. Fixtures for incandescent gas-lamps.....	29,152	Nov. 10	77	971
Hartmann, J. P., and R. A. Ranck, Shamokin, Pa. Remedies for gonorrhea and diseases of the urinary organs.....	28,386	June 16	75	1849
Harvey, Thomas A., Saginaw, Mich. Bicycle-tire puncture-filler.....	28,430	June 23	75	2004
Hasbrouck & Co., W. H., New York, N. Y. Writing-paper and envelopes.....	27,686	Jan. 28	74	491

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Haskell, James E., Tiskilwa, Ill. Paints	27,969	Mar. 17	74	1585
Hastings Wool Boot Company, Hastings, Mich. All-wool boots	29,344	Dec. 29	77	2130
Hauff, Firm of J., Feuerbach, Germany. Deliming and preserving compound for tanners' use	28,668	Sept. 8	76	1571
Haurwitz, Max, and H. J. Frese, St. Louis, Mo. Certain named remedies	28,346	June 2	75	1545
Haviland, Sanford C., Erie, Pa. Bronchial lozenges	28,503	June 30	75	2191
Hayter, John P., Decatur, Tex. Eye-salve	28,280	May 19	75	1199
Healy, George W., and R. H. C. Dana, Natchez, Miss. Remedies for rheumatic diseases	28,513	June 30	75	2192
Hearsey, Henry T., Indianapolis, Ind. Bicycles, tricycles, and supplies and attachments therefor	27,840	Feb. 18	74	962
Heath & Sons, H. R., Fort Dodge, Iowa. Pancake-flour, rolled wheat, and cornmeal	27,611	Jan. 7	74	140
Hebart, Johann G., Nuremberg, Germany. Night-candles	27,822	Feb. 18	74	961
Heineman Bros., Baltimore, Md. Cigars	28,833	Sept. 1	76	1414
Heinz Co., H. J. Allegheny, Pa. Prepared fruits and vegetables	27,936	Mar. 10	74	1438
Heinzerling, John, Baltimore, Md. Ginger ale	27,814	Feb. 18	74	960
Heller, Benjamin, Chicago, Ill. Coloring and preservative of meat	28,596	July 14	76	331
Hemmerlé, Amélie, New York, N. Y. Remedy for gout and rheumatism	28,638	July 21	76	472
Hendley, Frank P., Philadelphia, Pa. Canned fruits and vegetables	27,697	Jan. 28	74	492
Hendrick, James P., Jr., New York, N. Y. Dentifrices, tooth-brushes, and packages of same	27,731	Feb. 4	74	649
Henry H. Adams & Company, Incorporated, New York, N. Y. Pig-iron	27,909	Mar. 3	74	1275
Henry Huber Company, New York, N. Y. Hot-water apparatus	27,948	Mar. 10	74	1440
Henry Zeltner Brewing Company, New York, N. Y. Lager-beer	29,267	Dec. 8	77	1592
Hercules Cement Company, Catsaqua and Philadelphia, Pa. Cement	28,215	May 5	75	830
Herdon-Carter Company, Louisville, Ky. Dried apples	28,920	Sept. 29	76	2005
Herdon-Carter Company, Louisville, Ky. Dried apples	28,929	Oct. 6	77	148
Hernsheim, Bros. & Co., S., New Orleans, La. Chewing and smoking tobacco, cigars, and cigarettes	28,440	June 23	75	2005
Herrick & Son, A. H., Watertown, N. Y. Agricultural and garden seeds	28,453	June 23	75	2006
Herz, Firm of S., Berlin and Wittenberge, Germany, and London, England. Metal-polish	28,351	June 9	75	1701
Heublein & Bro., G. F., Hartford, Conn. Remedy for coughs, colds, and bronchial and pulmonary affections	28,306	May 26	75	1357
Heublein & Bro., G. F., Hartford, Conn. Mixed drinks	28,441	June 23	75	2005
Hewitt, Alvin E., Derby, Conn. Hooks and eyes	29,065	Nov. 3	77	806
Hewlett Bros., Salt Lake City, Utah. Baking-powders, spices, extracts, and soda-waters	29,281	Dec. 8	77	1593
Heydebrand Safety Window Company, New York, N. Y. Fittings, fixtures, and appurtenances of the Heydebrand safety-window	28,025	Mar. 24	74	1730
Hibbard, Spencer, Bartlett & Company, Chicago, Ill. Ice-cream freezers, milk-cans, and other household articles	27,790	Feb. 11	74	805
Hibbard, Spencer, Bartlett & Company, Chicago, Ill. Cutlery, including clippers, razor-strops, and lather-brushes	27,791	Feb. 11	74	805
Hibbard, Spencer, Bartlett & Company, Chicago, Ill. Articles of hardware and shelf-hardware	27,792	Feb. 11	74	805
Hibbard, Spencer, Bartlett & Company, Chicago, Ill. Firearms and sporting goods	27,793	Feb. 11	74	805
Hibbard, Spencer, Bartlett & Company, Chicago, Ill. Farm implements	27,795	Feb. 11	74	806
Hibbard, Spencer, Bartlett & Company, Chicago, Ill. Bicycles, tricycles, velocipedes, sundries, and all articles relating to a bicycle business	29,341	Dec. 22	77	1936
Hickox, Harry E., Cleveland, Ohio. Chewing-gum	28,091	Apr. 7	75	180
Hicks Brown Milling Company, Mansfield, Ohio. Wheat-flour	27,778	Feb. 11	74	804
Hicks Brown Milling Company, Mansfield, Ohio. Wheat-flour	28,396	June 16	75	1850
Higgins, Charles D. (See Higgins, Edward T. and C. D.)				
Higgins, Edward T. and C. D., Greensborough, N. C. Cough-syrup	29,191	Nov. 24	77	1267
Higginsville Milling Company, Higginsville, Mo. Wheat-flour	27,820	Feb. 18	74	961
Hills Union Brewery Company, Limited, Newark, N. J., and London, England. Lager-beer	28,932	Oct. 6	77	148
Hilton, Hughes & Co., New York, N. Y., and Paris, France. Kid gloves	27,933	Mar. 10	74	1438
Hilton, Hughes & Co., New York, N. Y., and Paris, France. Kid gloves	28,407	June 16	75	1851
Hilton, John. (See Naef, Branch, and Hilton.)				
Hirsch & Sons, Joseph, New York, N. Y. Cotton and linen goods, silks, and woollens	28,895	Sept. 29	76	2002
Hirsch & Brother, Philadelphia, Pa. Umbrellas and parasols	28,352	June 9	75	1701
Hitchcock Lamp Company, Watertown, N. Y. Bicycle-lamps	27,627	Jan. 7	74	142
Hitchcock & Stevens, Plattsburg, N. Y. Tasteless castor-oil preparation	28,437	June 23	75	2004
Hitchings & Co., George O. (See Munro and Hitchings.)				
Hobart, Frank, Topeka, Kans. Blood medicine	27,859	Feb. 25	74	1118
Hofele, Fredericka, New York, N. Y. Healing ointment or salve	28,507	June 30	75	2191
Hoffman, Albert T., Cleveland, Ohio. Tire-cement	28,649	July 21	76	473
Hoffman, James L., Allentown, Pa. Remedies for headache, dyspepsia, rheumatism, and diseases of the blood, throat, and lungs	28,065	Mar. 31	74	1896
Hoffmann's Stärkefabriken, Salzdorf, Germany. Starch and its preparations, soap, soap powders, soda, blue, borax, and the like	28,223	May 5	75	831
Hofmeier, Julius, Vienna, Austria-Hungary. Paper and paper-board	28,762	Aug. 18	76	1111
Hohner, Matthias, Trossingen, Germany. Mouth-harmonicas	28,228	May 5	75	831
Holden & Brooke, Limited, Manchester, England. Steam-traps	27,875	Feb. 25	74	1119
Holmberg, Emil A., New York, N. Y. Canned lobster	29,225	Dec. 1	77	1423
Homan Silver Plate Company, Cincinnati, Ohio, Chicago, Ill., and New York, N. Y. Silver-plated ware	27,974	Mar. 17	74	1586
Homeopathische Central-Apotheke Dr. Willmar Schwabe, Leipsic, Germany. Homeopathic medicines, dietetic preparations, and books	28,274	May 19	75	1198
Honey Dew Gum Company, New York, N. Y. Chewing-gum and breath-perfumes	29,103	Nov. 3	77	810
Honig, Louis, St. Louis, Mo. Insulating compound	28,917	Sept. 29	76	2005
Hook Bros. & Aston, Zanesville, Ohio. Wheat-flour	29,227	Dec. 1	77	1423
Hooven Mercantile Company, Richmond, Va., and New York, N. Y. Cleaned currants	27,776	Feb. 11	74	604
Hooven Mercantile Company, Richmond, Va., and New York, N. Y. Cigars	28,473	June 30	75	2188
Hooven Mercantile Company, New York, N. Y. Cigars	27,850	Feb. 25	74	1117
Hopkins, George K., St. Louis, Mo. Lotion for the skin	27,739	Feb. 4	74	650
Horn, Louis C., Baltimore, Md. Remedies for epilepsy and nervous diseases	28,944	Oct. 6	77	149
Horney, Edward L., Chillicothe, Ohio. Writing-pens	27,730	Feb. 4	74	649
Hovey, Charles C., and L. R. Clark, Bainbridge, N. Y. Butter in packages	27,991	Mar. 24	74	1726
Howard & Co., J. W. & A. P. Corry, Pa. Sole-leather	28,380	June 16	75	1848
Howe, Edwin C., Bridgeport, Conn. Fever and ague remedies	29,193	Nov. 24	77	127
Howell & Co., Charles H., Philadelphia, Pa. Certain oils and their compounds	27,709	Jan. 28	74	493
Hoyt Bros. & Co., Lynn, Mass. Bottle-washing machines	28,375	June 9	75	1702
Hub Gore Makers, Boston, Mass. Elastic fabrics	28,526	July 7	76	157
Hub Gore Makers, Boston, Mass. Elastic fabrics and boots and shoes	28,527	July 7	76	157
Hub Gore Makers, Boston, Mass. Elastic fabrics and boots and shoes	28,528	July 7	76	157
Hub Gore Makers, Boston, Mass. Elastic fabrics	28,594	Sept. 29	76	2002
Hudnut, Richard, New York, N. Y. Perfumery and toilet articles	28,495	June 30	75	2190
Hudnut, Richard, New York, N. Y. Perfumes, powders, dentifrice, creams, hair-oils, and similar goods	28,496	June 30	75	2190

Alphabetical list of registrants of trade-marks—Continued.

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Hudnut, Richard, New York, N. Y. Extracts, waters, lotions, colognes, powders, oils, creams, soaps, and the like	28,497	June 30	75	2190
Hudnut, Richard, New York, N. Y. Cologne and perfumery	28,551	July 7	76	160
Hueffner, Henry A., Virginia, Ill. Flour	28,780	Aug. 18	76	1112
Hueppe, Ferdinand V., New York, N. Y. Remedies for the ailments of animals	28,011	Mar. 24	74	1728
Hughes, Albert E., New York, N. Y. Remedies for gout and rheumatism	29,352	Dec. 29	77	2131
Hughes, Jacob, Craig-yr-Awel, England. Ointments	28,356	June 9	75	1701
Hughes, Jacob, Craig-yr-Awel, England. Pills	28,606	July 14	76	332
Hughes, Jacob, Craig-yr-Awel, England. Pills	28,607	July 14	76	332
Hughes, William H., Boston, Mass. Natural sherries	28,442	June 23	75	2005
Hugon & Co., Limited, Pendleton, England. Refined beef suet or fat	29,203	Nov. 24	77	1268
Hulbert Bros. & Company, New York, N. Y. Bicycles, firearms, and gymnasium apparatus	28,856	Sept. 1	76	1416
Hull, Sallie B., Fort Worth, Tex. Remedy for burns	28,996	Oct. 13	77	310
Hulman & Co., Terre Haute, Ind. Coffee	28,628	July 21	76	471
Humber & Company, America, Limited, Westborough, Mass., New York and Brooklyn, N. Y. Pneumatic tires for cycles and other vehicles	28,518	June 30	75	2192
Humphreys Homeopathic Medicine Company, New York, N. Y. Remedies for general prostration, coughs, colds, and similar troubles	27,599	Jan. 7	74	139
Hunicks, Felix H., St. Louis, Mo. Workmen's gloves and mittens	29,190	Nov. 24	77	1267
Hunt, Joseph H., Haywards, Cal. Canned fruit	28,921	Sept. 29	76	2005
Huntoon, Harrison B., Providence, R. I. Tobacco	29,335	Dec. 23	77	1935
Hurd & Co., George B., New York, N. Y. Writing-paper and envelopes	28,730	Aug. 11	76	937
Hurlbut Stationery Company, Pittsfield, Mass. Paper and envelopes	27,526	Jan. 7	74	138
Hyams, Harry H., Cincinnati, Ohio. Remedies for rheumatism and all blood diseases	29,044	Oct. 27	77	928
Hyde, Charles A., Boston, Mass. Polish for wooden surfaces	27,852	Feb. 25	74	1117
I. B. Kleintert Rubber Company, New York, N. Y. Dress-shields	28,074	Apr. 7	75	178
I. B. Kleintert Rubber Company, New York, N. Y. Garment-clasps	29,247	Dec. 8	77	1590
Ibbotson, Charles, Sheffield, England. Certain named cutlery and edged tools	28,251	May 12	75	992
Ibbotson, Charles, Sheffield, England. Certain named cutlery and edged tools	28,252	May 12	75	992
Ideal Manufacturing Company, Tilton, N. H. Wrappers and tea-gowns	27,845	Feb. 25	74	1117
Illinois Canning Co., Hoopeston, Ill. Canned corn	29,163	Nov. 17	77	1120
Imperial Granum Company, New Haven, Conn. Liniment	28,506	June 30	75	2191
Indianapolis Brewing Company, Indianapolis, Ind. Beer	28,107	Apr. 7	75	181
Indianapolis Brewing Company, Indianapolis, Ind. Malt extract for brewers' use	28,906	Sept. 29	76	2004
Indianapolis Chain and Stamping Company, Indianapolis, Ind. Bicycle-chains	28,799	Aug. 18	76	1114
International Art Publishing Company, Limited, New York, N. Y. Sunday-school cards	29,189	Nov. 24	77	1267
International Pulp Company, Gouverneur and New York, N. Y. Powdered talc or agalite	29,205	Nov. 24	77	1268
International Pulp Company, Gouverneur and New York, N. Y. Finely-powdered talc or agalite	29,362	Dec. 29	77	2132
Inter-State Casualty Company of New York, New York, N. Y. Coupon tickets or contracts	29,116	Nov. 10	77	968
Iowa Farming Tool Company, Fort Madison, Iowa. Hand-tools, such as hoes and corn-hooks	28,669	July 28	76	605
Iron Clad Paint Company, Cleveland, Ohio. Paints	28,334	June 2	75	1544
Iroquois Brewing Company, Buffalo, N. Y. Lager-beer	28,907	Sept. 29	76	2004
Irwin, McBride, Catherwood & Co., Philadelphia, Pa. Japan tea	29,078	Nov. 3	77	807
Isaacs, G. & D., Brooklyn, N. Y. Oleo-oil, stearine, and tallow	29,019	Oct. 20	77	449
Isaacson, Susill A., Boston, Mass. Trousers	28,891	Sept. 29	76	2002
Ives & Co., W. P., Norfolk, Va. Blended whiskies	27,960	Mar. 17	74	1585
Ives & Williams Company Bridgeport, Conn., and New York, N. Y. Toy firearms	27,872	Feb. 25	74	1119
J. A. Jones Medicine Company, Cliquot, Mo. Liniment, balsam, salves, eye-waters, worm-candy, and remedies for rheumatism and liver and kidney troubles	28,138	Apr. 14	75	344
J. A. Lamy Manufacturing Company, Sedalia, Mo. Shirts, pants, and overalls	28,377	June 16	75	1848
J. B. Williams Company, Glastonbury, Conn. Toilet soap	28,142	Apr. 14	75	345
J. F. Humphreys & Company, Bloomington, Ill. Certain foods and beverages	27,644	Jan. 14	74	267
J. S. Johnson Company, New York, N. Y., and Nassau, Bahama Island. Canned pineapple	28,029	Mar. 31	74	1893
J. W. Beardsley's Sons, New York, N. Y. Salted and boneless fish	28,690	July 28	76	607
J. W. Beardsley's Sons, New York, N. Y. Salted and boneless fish	29,087	Nov. 3	77	808
J. W. Beardsley's Sons, New York, N. Y. Salted and boneless fish	29,224	Dec. 1	77	1423
Jackson, Samuel, Boston, Mass. Wall-trunks	28,403	June 16	75	1851
Jacob Fussell Company, Washington, D. C. Candies and ice-cream	28,266	May 19	75	1197
Jacobs, Benjamin T., Stapleton, N. Y. Remedies for rheumatism and gout	28,608	July 14	76	332
Jaffé & Darmstaedter, Benno, Martinikenfelde, Germany. Toilet preparations manufactured from wool-fat	29,204	Nov. 24	77	1268
James A. Banister Company, Newark, N. J. Boots and shoes	28,877	Sept. 15	76	1710
James Epps & Company, Limited, London, England. Prepared cocoa	29,270	Dec. 8	77	1592
Jandorf, Louis C., New York, N. Y. Bicycles	28,199	Apr. 28	75	672
Janowitz, Julius, New York, N. Y. Dress and corset stays	28,424	June 23	75	2003
Janowitz, Julius, New York, N. Y. Dress and corset stays	28,425	June 23	75	2003
Jenkins Cycle Company, Chicago, Ill. Bicycles	27,820	Feb. 25	74	1120
Jenkins Cycle Company, Chicago, Ill. Bicycles	27,930	Mar. 10	74	1438
Jenney Manufacturing Company, Boston, Mass. Illuminating-oils	28,084	Apr. 7	75	179
Jennings, Abraham G., Brooklyn, N. Y. Artificial fuel	27,614	Jan. 7	74	140
Jennings, Robert D., and T. C. Wilburn, St. Louis, Mo. Internal remedy for poultry diseases	28,514	June 30	75	2192
Jersey Packing Company, Hamilton, Ohio. Canned fruits and vegetables	28,161	Apr. 21	75	505
Jersey Wheel Company, Plainfield, N. J. Vehicles and metal wares, woodenwares, and compounds thereof used for athletic and sporting purposes	28,516	June 30	75	2192
John Bird Company, Rockland, Me. Wheat-flour	28,397	June 16	75	1850
John Bird Company, Rockland, Me. Wheat-flour	28,398	June 16	75	1850
John Bird Company, Rockland, Me. Wheat-flour	28,399	June 16	75	1850
John Crossley & Sons, Limited, Halifax, England. Carpets of all kinds	28,261	May 19	75	1197
John F. Wiessner & Son's Brewing Company of Baltimore City, Baltimore, Md. Lager-beer	28,068	Mar. 31	74	1896
John Griffiths Cycle Corporation, Limited, Dublin, Ireland, and Coventry, England. Cycles and accessories therefor	28,831	Aug. 25	76	1272
John Jameson & Son, Limited, Dublin, Ireland. Whisky	28,931	Oct. 6	77	148
Johnson Bros., Kansas City, Mo. Hair-tonic, shampoo, face-powder, and a preparation for the skin	28,087	Apr. 7	75	179
Johnson Bros. & Co., Incorporated, Richmond, Va. Pickles, catsups, and sauces	28,626	July 21	76	471
Johnson, James R., Dallas, Tex. Grape-vines, fresh, canned, and preserved grapes, and wines	28,708	Aug. 4	76	783
Johnson, Mary E., Fitchburg, Mass. Bicycles, guns, and pistols	27,723	Jan. 28	74	494
Johnson, Mary E., Fitchburg, Mass. Bicycles	29,325	Dec. 15	77	1760
Jonasson & Co., Meyer, New York, N. Y. Shirt-waists	28,465	June 30	75	2188
Jonathan Harris & Sons, Limited, Cockermonth, England. Threads of all kinds	27,727	Feb. 4	74	649
Jones Brothers, New York, N. Y. Tea, coffee, spices, baking-powder, flavoring extracts, soap, and starch	29,144	Nov. 10	77	971
Jones Shoe Manufacturing Company, Columbus, Ohio. Shoes	29,118	Nov. 10	77	968
Jordain & Co., Cincinnati, Ohio. Ointment for the removal of wrinkles and other skin disorders	28,248	May 12	75	992
Joseph Campbell Preserve Company, Camden, N. J. Canned tomatoes and tomato extract	28,162	Apr. 21	75	505

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Joseph Crosfield & Sons, Limited, Warrington, England. Caustic soda and silicate of soda	29,134	Nov. 10	77	969
Joseph Crosfield & Sons, Limited, Warrington, England. Caustic soda and silicate of soda	29,135	Nov. 10	77	970
Jung & Co., L. E., New Orleans, La. Stomach-bitters	28,712	Aug. 4	76	783
Kaempfer, Frederick, Chicago, Ill. Bird-foods and bird requisites	28,740	Aug. 11	76	958
Kahler & Sons, P., New York, N. Y. Stockings	28,892	Sept. 29	76	2002
Kahn & Bros., F. & L., Hamilton, Ohio. Heating and cooking apparatus	27,832	Feb. 18	74	962
Kais. Kön. Privilegierte Österreichische Länderbank, Vienna, Austria-Hungary. Ozocerite	29,106	Nov. 3	77	810
Kansas City Carnival Krewe, Kansas City, Mo. Certain named advertising and printed goods	28,117	Apr. 14	75	342
Kansas City Star Company, Kansas City, Mo. Newspapers	28,384	June 16	75	1849
Kasey, Thomas A., Salem, Va. Soap	29,317	Dec. 15	77	1779
Kasseler Hafer-Kakao-Fabrik, Hausen & Co., Cassel, Prussia, Germany. Cocoa prepared with oatmeal for a beverage	27,937	Mar. 10	74	1439
Kanfmann & Strauss Company, New York, N. Y. Lithographic prints	28,985	Oct. 13	77	309
Kearney & Foot Company, New York, N. Y. Files, twist-drills, and other small tools for mechanical uses	28,829	Aug. 25	76	1272
Kegeler, Henry C., New York, N. Y. Baking-powder	27,957	Mar. 17	74	1584
Kehew-Bradley Company, Boston, Mass. Wool-oil	28,677	July 28	76	606
Keith, Alonzo F., Omaha, Nebr. Starch	28,964	Oct. 6	77	151
Keller, Wilmer L., Baltimore, Md. Effervescent powders, salts, and tablets	29,047	Oct. 27	77	628
Kelly, Alonzo J. (See Barker and Kelly.)				
Kelly Axe Manufacturing Company, Alexandria, Ind., Louisville, Ky., and New York, N. Y. Axes	29,088	Nov. 3	77	808
Kelly, Hiram R., Galion, Ohio. Remedy for headache, neuralgia, rheumatism, and pains in the stomach and bowels	29,353	Dec. 29	77	2131
Kennon, Charles W., Tampa, Fla. Paint	28,244	May 12	75	991
Kent Lubricating Company, Milwaukee, Wis. Lubricants and dressings	28,082	Apr. 7	75	179
Kentora Brewery Company, Limited, Nottingham, England. Non-intoxicating effervescent botanic beverage	29,142	Nov. 10	77	970
Kespohl & Co., H. A., Quincy, Ill. Baking-powder	29,200	Nov. 24	77	1268
Kestner, Firm of J. D., Jr., Waltershausen, Germany. Kid-body bisque-head dolls	29,129	Nov. 10	77	969
Keyser, William S., Pensacola, Fla. Pitch-pine boards, timber, and deals	29,244	Dec. 1	77	1426
Keystar Baking Powder Co., Red Bank, N. J., and New York, N. Y. Baking-powder	27,990	Mar. 24	74	1726
Keystone Plaster Company, Chester, Pa. Wall-plaster	27,905	Mar. 3	74	1275
Kiehle, Leo C., Elizabeth, N. J. Washing fluid for cleansing purposes	28,433	June 23	75	2004
Kienzler, Herman, New York, N. Y. Soda-water syrups	28,478	June 30	75	2189
Kiessel & Faehner, New York, N. Y. Perfumeries, toilet articles, cosmetics, and hair-restorers	28,436	June 23	75	2004
Kilbourn, Albert H., Osage, Iowa. Axle-grease	28,439	June 23	75	2005
Kilo Pharmacal Co., Philadelphia, Pa. Catarrh remedy	27,673	Jan. 21	74	375
Kinderhook Knitting Company, Kinderhook, N. Y. Children's underwaists, including knitted waists	28,376	June 16	75	1848
King B Cycle Company, Chicago, Ill. Bicycles	27,720	Jan. 28	74	494
King B Cycle Company, Chicago, Ill. Bicycles for women	27,721	Jan. 28	74	494
King, Charles A., Boston, Mass. Lager-beer and malt tonics	27,771	Feb. 11	74	804
King & Co., J. B., New York, N. Y. Asbestos cement for finishing walls	29,236	Dec. 1	77	1425
King, Orion, Cleveland, Ohio. Medicated tablets	28,998	Oct. 13	77	311
Kingsford & Son, T., Oswego, N. Y. Laundry starch	29,202	Nov. 24	77	1268
Kirby, John B., Yardville, N. J. Wheat-flour	29,279	Dec. 8	77	1593
Kisyou Co., Chicago, Ill. Toilet preparations, breath-perfumes, and confections	28,550	July 7	76	160
Kitchen, Harrison A., Warren, Pa. Catarrh cures	28,170	Apr. 21	75	505
Klahn, Emil. (See Strauss and Klahn.)				
Kline, Gustavus E. (See Kline, Michael H. and G. E.)				
Kline, Michael H. and G. E., Cleveland, Ohio. Compound for cleaning wall-paper, frescoed walls, and the like	28,144	Apr. 14	75	345
Kloman, William C., Baltimore, Md. Tablets for colds and hay-fever, also a tonic and disinfectant	29,132	Nov. 10	77	969
Klotz, Victor, Paris, France, and New York, N. Y. Soaps, perfumes, oils, and like toilet articles	29,071	Nov. 3	77	807
Klotz, Victor, Paris, France, and New York, N. Y. Soaps, perfumes, oils, and like toilet articles	29,072	Nov. 3	77	807
Klotz, Victor, Paris, France, and New York, N. Y. Soaps, perfumes, oils, and other toilet articles	29,073	Nov. 3	77	807
Klotz, Victor, Paris, France, and New York, N. Y. Soap and other toilet preparations	29,181	Nov. 17	77	1122
Klotz, Victor, Paris, France, and New York, N. Y. Toilet preparations, including soap	29,232	Dec. 1	77	1424
Knickerbocker Cycle Manufacturing Co., New York, N. Y. Bicycles, tricycles, delivery-carriers, and their parts and attachments	27,680	Jan. 21	74	376
Knickerbocker Silk Company, New York, N. Y. Silk goods	29,345	Dec. 29	77	2130
Knoche, John H., Kansas City, Mo. Certain named remedies	28,171	Apr. 21	75	505
Knoche, John H., Kansas City, Mo. Certain named remedies	28,172	Apr. 21	75	505
Knoll & Co., Ludwigshafen, Germany. Remedies for skin diseases	27,785	Feb. 11	74	805
Knoll & Co., Ludwigshafen, Germany. Medical compound to be used as an astringent	28,348	June 9	75	1546
Knoxlton, Elias W., Guthrie, Okla. Ter. Scalp tonics	28,683	July 28	76	606
Koehler & Hinrichs, St. Paul, Minn. Granular effervescent medicine	28,303	May 26	75	1356
Koehler, Jackson, Erie, Pa. Beer	27,691	Jan. 28	74	491
Kola Importing Co., Detroit, Mich. Tonics	28,684	July 28	76	606
Kola-Seltzer Co., Philadelphia, Pa. Light-brown effervescent salt, a remedy for headache and similar disorders	28,445	June 23	75	2005
Kops, Daniel, New York, N. Y. Corsets and corset materials	27,799	Feb. 18	74	959
Kremenz & Co., Newark, N. J. Jewelry made from precious and other metals, and tortoise-shell goods	28,898	Sept. 29	76	2003
Kreutz, Michael, Philadelphia, Pa. Cigars	28,901	Sept. 29	76	2003
Krug & Co., Rheims, France. Champagne-wine	28,960	Oct. 6	77	150
Krumhaar, Hermann, Berlin, Germany. Household dyes	28,544	July 7	76	159
Krumhaar, Hermann, Berlin, Germany. Household dyes	28,545	July 7	76	159
Kuchle, Gebhard, Cleveland, Ohio. Ointments for bruises, sores, sprains, burns, skin diseases, and the like	28,169	Apr. 21	75	505
Kufke, Firm of Anton, Glasgow, Scotland. Wheat-flour	27,819	Feb. 18	74	960
Kullman, Salz & Company, Incorporated, San Francisco, Cal. Leather	29,298	Dec. 15	77	1777
Kursheedt Manufacturing Company, New York, N. Y., and Manchester, England. Corduroy velveteen dress-facings	28,379	June 16	75	1848
Kurz, Firm of H. C., Nuremberg, Germany. Pencils and penholders	27,921	Mar. 10	74	1437
Kurzenkabe, William, Chicago, Ill. Soles, tap-soles, and half-soles	28,154	Apr. 21	75	504
Kurzmann Bros., New York, N. Y. Butter	29,384	Dec. 29	77	2134
L. Bolton & Company, Des Moines, Iowa. Soap of a dark color	28,966	Oct. 6	77	151
L. Hoster Brewing Company, Columbus, Ohio. Beer, ale, and malt extract	28,632	July 21	76	471
L. M. Rumsey Manufacturing Company, St. Louis, Mo. Water-closets	27,623	Jan. 7	74	141
L. M. Rumsey Manufacturing Company, St. Louis, Mo. Water-closets	27,624	Jan. 7	74	141
L. M. Rumsey Manufacturing Company, St. Louis, Mo. Water-closets	27,625	Jan. 7	74	141
L. M. Rumsey Manufacturing Company, St. Louis, Mo. Water-closets	27,626	Jan. 7	74	141
L. M. Rumsey Manufacturing Company, St. Louis, Mo. Water-closets	27,726	Jan. 28	74	494
L. M. Rumsey Manufacturing Company, St. Louis, Mo. Water-closets	27,841	Feb. 18	74	962

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L. M. Rumsey Manufacturing Company, St. Louis, Mo. Water-closets	27,842	Feb. 18	74	962
L. M. Rumsey Manufacturing Company, St. Louis, Mo. Water-closets	28,055	Mar. 31	74	1895
L. M. Rumsey Manufacturing Company, St. Louis, Mo. Cane-mills	28,230	May 5	75	832
L. M. Rumsey Manufacturing Company, St. Louis, Mo. Hydraulic hose	28,418	June 23	75	2003
L. Wolf Manufacturing Company, Chicago, Ill. Kitchen boilers, sinks, bath-tubs, water closets, and tanks	29,291	Dec. 8	77	1594
La Fevre & Sawyer, Seattle, Wash. Liquid pile cure	27,653	Jan. 14	74	268
La Porte Medicine Company, La Porte, Ind. Remedies for women's diseases	29,355	Dec. 29	77	2131
La Société Anonyme "La Tilia," Lyons, France. Food-stuffs, including chocolate, cocoa, food-paste and bread and biscuits containing sterilized raw-meat powder	28,311	May 26	75	1357
La Société Anonyme "La Tilia," Lyons, France. Compound of beef and chocolate	28,312	May 26	75	1357
La Société Anonyme "La Tilia," Lyons, France. Compound of beef and chocolate	28,313	May 26	75	1357
La Société Anonyme "La Tilia," Lyons, France. Compound of beef and chocolate	28,314	May 26	75	1358
La Société Anonyme "La Tilia," Lyons, France. Compound of beef and chocolate	28,315	May 26	75	1358
La Société Anonyme "La Tilia," Lyons, France. Compound of beef and chocolate	28,316	May 26	75	1358
La Société Anonyme "La Tilia," Lyons, France. Compound of beef and cocoa	28,317	May 26	75	1358
La Société Anonyme "La Tilia," Lyons, France. Biscuits containing meat	28,318	May 26	75	1358
La Société Anonyme "La Tilia," Lyons, France. Compound of bread containing beef	28,319	May 26	75	1358
Lamp Chimney Baking Powder Company, Chicago, Ill. Baking-powder	27,779	Feb. 11	74	804
Lane, George M., Chicago, Ill. Tea	27,867	Feb. 25	74	1118
Lanman & Kemp, New York, N. Y. Rubber syringes and articles of like character	29,029	Oct. 20	77	450
Lapham, Frederick A., Worcester, Mass. Bicycles	27,881	Feb. 25	74	1120
Lanzendoerfer, George, Boston, Mass. Extract of malt	28,630	July 21	76	471
Lapp, Andrew, Frostburg, Md. Salves and ointments	28,772	Aug. 18	76	1112
Larcom, Rufus E., Beverly, Mass. Boots and shoes	29,257	Dec. 8	77	1591
Larkin, Peter C., Toronto, Canada. Tea	28,962	Oct. 6	77	151
Lathrop, Arabelle, Denver, Colo. Cosmetics	27,763	Feb. 11	74	803
Lawrence & Co., Chas., Boston, Mass. Cigars	27,749	Feb. 4	74	651
Lawrence Manufacturing Company, Lowell and Boston, Mass., and New York, N. Y. Cotton drillings	28,700	Aug. 4	76	782
Lawrence Manufacturing Company, Lowell and Boston, Mass., and New York, N. Y. Cotton sheetings and cotton shirtings	28,701	Aug. 4	76	782
Le Roy, Arthur L., Cortland, N. Y. Welding compounds	28,241	May 12	75	991
Leeson & Co., J. R., Boston, Mass. Yarns and threads	28,950	Oct. 6	77	150
Leeson & Co., J. R., Boston, Mass. Yarns and threads	28,951	Oct. 6	77	150
Leeson & Co., J. R., Boston, Mass. Yarns and threads	28,952	Oct. 6	77	150
Leeson & Co., J. R., Boston, Mass. Yarns and threads	28,953	Oct. 6	77	150
Leibinger & Oehm Brewing Company, Brooklyn, N. Y. Lager-beer	28,566	July 7	76	161
Lemke, Herman C., Chicago, Ill. Remedy for certain named diseases	28,745	Aug. 11	76	958
Lenhart, Charles, Dover, Pa. Horse, cattle, and poultry powder	28,910	Sept. 29	76	2004
Leshner, Whitman & Co., New York, N. Y. Silesias and goods of like character	28,731	Aug. 11	76	957
Leshner, Whitman & Co., New York, N. Y. Sewing silk and twist	28,732	Aug. 11	76	957
Leshner, Whitman & Co., New York, N. Y. Trimmings, such as braids and bindings	28,761	Aug. 18	76	1111
Leshner, Whitman & Co., New York, N. Y. Italian cloths, serges, silks, velvets, bindings, braids, and linings	29,127	Nov. 10	77	969
Levering, Cassandra B., Baltimore, Md. Ruffling and flouncing	29,347	Dec. 29	77	2130
Levy & Co., Newark, N. J. Shoemakers' wax, inks, stains, furniture-polish, and tailors' crayons	28,721	Aug. 4	76	784
Lewi, Theodore J., Albany, N. Y. Foot-powder	27,899	Mar. 3	74	1274
Lewis, Edward G., St. Louis, Mo. Tablets for coughs and colds	27,619	Jan. 7	74	141
Lexington Roller Mills Company, (Incorporated,) Lexington, Ky. Flour and meal	28,563	July 7	76	161
Libbey Glass Company, Toledo, Ohio. Cut or etched glassware	28,180	Apr. 21	75	506
Lichtenstein's Sons, L., Richmond, Va. Linen thread	28,803	Aug. 25	76	1270
Lieber, Alice, Indianapolis, Ind. Malt extracts and peptonized malt foods	28,764	Aug. 18	76	1111
Liebig, Anton, New York, N. Y. Specifics for the extermination of zymotic and contagious diseases	28,997	Oct. 13	77	311
Liebig's Extract of Meat Company, Limited, London, England. Extract of meat	28,591	July 14	76	331
Liebig's Extract of Meat Company, Limited, London, England. Extract of meat	28,592	July 14	76	331
Liebig's Extract of Meat Company, Limited, London, England. Extract of meat	28,593	July 14	76	331
Liggett & Myers Tobacco Company, St. Louis, Mo., and Chicago, Ill. Cigarettes	27,751	Feb. 4	74	651
Lindsey, Zachary T., Omaha, Nebr. Waterproof clothing and rubber goods of all kinds	28,204	May 5	75	829
Linke, Theodore, New York, N. Y. Filters	27,604	Jan. 7	74	140
Linn, Kate, New York, N. Y. Cementing and healing compound for rubber goods, especially bicycle-tires	28,722	Aug. 4	76	784
Liquid Fuel Engineering Company, East Cowes and London, England. Engines, machinery or its parts, boats, and goods pertaining to marine and general engineering	29,187	Nov. 17	77	1122
Little, Adelbert P., Rochester, N. Y. Carbon-paper	28,698	Aug. 4	76	782
Little, Maxwell & Co., Boston, Mass. Boots and shoes	27,844	Feb. 25	74	1117
Little, Maxwell & Co., Boston, Mass. Leather boots and shoes	28,231	May 5	75	832
Loewenthal Sons & Co., L., Evansville, Ind., and New York, N. Y. Overalls, pants, and trousers made of jean	28,466	June 30	75	2188
Lone Star Brewing Company, San Antonio, Tex. Lager-beer	27,642	Jan. 14	74	267
Long's Sons, Jonas, Wilkes-Barre, Pa. Bicycles	28,538	July 7	76	158
Lopez, Fernando, Havana, Cuba. Cigarettes	28,706	Aug. 4	76	783
Lord & Taylor, New York, N. Y. Wool, silk, and cotton gloves for women and children	27,588	Jan. 7	74	138
Lord & Taylor, New York, N. Y. Cotton linings used in dresses	29,025	Oct. 20	77	450
Loring, Abbott, Boston, Mass., New York, N. Y., and Chicago, Ill. Certain named fat-producing food	29,311	Dec. 15	77	1778
Los Angeles Soap Co., Los Angeles, Cal. Soap	27,965	Mar. 17	74	1585
Louch, Augustine & Co., Seattle, Wash. Cured fish, meats, and lard	28,159	Apr. 21	75	504
Louder, Charles, Allegheny, Pa. Preparation of malt and hops for the manufacture of a beverage	28,804	Aug. 25	76	1270
Lozier Manufacturing Company, Toledo, Ohio. Bicycles, velocipedes, and articles accessory thereto	29,008	Oct. 13	77	312
Ludington & Co., J., Baltimore, Md. Canned oysters, fruits, and vegetables	28,239	May 12	75	991
Ludington Company, New Haven, Conn. Cigars, cigarettes, and smoking and chewing tobacco	28,903	Sept. 29	76	2003
Lumière & Ses Fils, A., Lyons, France. Apparatus for photographically exhibiting objects in motion	29,394	Dec. 29	77	2135
Lynn & Co., J., New York, N. Y. Pills	28,505	June 30	75	2191
Lyons, Charles, Burlingame, Kans. Toilet preparation for the skin in either a solid, liquid, or powdered form	28,680	July 28	76	606
M. A. Seed Dry Plate Company, Woodland and St. Louis, Mo. Photographic dry-plates	27,685	Jan. 28	74	491
M. Eisenstadt Jewelry Company, St. Louis, Mo. Gold and silver jewelry, flat and hollow silverware, watch-movements, and solid gold and silver and filled watchcases	28,469	June 30	75	2188
M. Hemmway & Sons Silk Company, Watertown, Conn., and New York, N. Y. Spooled and skeined silk thread	27,950	Mar. 17	74	1584
M. J. Breitenbach Company, New York, N. Y. Remedies for pulmonary diseases, chlorosis, and anemia	28,305	May 26	75	1357

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Name, residence, and title.	No.	Date.	Vol.	Page.
Macan & Co., Philadelphia, Pa. Sectional pipe-covering	28,329	June 2	75	1544
Macan & Co., Philadelphia, Pa. Sectional pipe-covering	28,532	July 7	76	158
Macdonald, Jameson & Co., Detroit, Mich. Pills	27,860	Feb. 25	74	1118
Macchado, Luciano V., Cambridge, Mass. Medicine to cure fever	27,674	Jan. 21	74	375
Mackie & Company, Distillers, Limited, Island of Islay and Glenlivet, Scotland. Whisky	28,709	Aug. 4	76	783
Macon Agricultural Works, Macon, Ga. Plowshares, hoes, cultivator-teeth, sweeps, blades, and scrapers	28,662	July 21	76	474
Magnire & Baucus, Limited, New York, N. Y. Copper, bronze, aluminium, and other metals, and phonographs, type-setters, and type-writers	28,368	June 9	75	1702
Maillard, Henry, New York, N. Y. Cocoa	29,143	Nov. 10	77	970
Majert & Ebers, Grunau, Germany. Certain named remedies	27,896	Mar. 3	74	1274
Major, David E., Ogden, Utah. Certain named remedies	29,016	Oct. 20	77	449
Malluk & Co., Najeeb, New York, N. Y. Razors, knives, scissors, &c	27,830	Feb. 18	74	961
Malluk & Co., Najeeb, New York, N. Y. Razors, knives, scissors, &c	27,831	Feb. 18	74	962
Malto-Peptide Co., Needham Market, England. Malto-peptide yeast food and malt-extract preparations	27,862	Feb. 25	74	1118
Manahan, Charles F., Chicago, Ill. Furniture	28,871	Sept. 8	76	1572
Manahan, Margaret E., New York, N. Y. Toilet-paper	28,541	July 7	76	158
Manheimer, Louis, Chicago, Ill. Watches	29,066	Nov. 3	77	806
Mann & Son, B. F., Mannsville, Ind. Ter. Specifics	28,747	Aug. 11	76	958
Marchand, Charles, New York, N. Y. Antiseptics or microbe-destroyers	28,652	July 21	76	473
Marcus Ward & Company, Limited, London, England, and Belfast, Ireland. Linen writing-paper	29,292	Dec. 15	77	1777
Marcus Ward & Company, Limited, London, England, and Belfast, Ireland. Linen writing-paper	29,293	Dec. 15	77	1777
Marcus Ward & Company, Limited, London, England, and Belfast, Ireland. Linen writing-paper	29,294	Dec. 15	77	1777
Mario Antoinette Company, Indianapolis, Ind. Fluids and powders for treating the skin and coloring the hair	28,498	June 30	75	2191
Mario Antoinette Company, Indianapolis, Ind. Medicinal tablets	28,555	July 7	76	160
Maring, Hart & Co., Muncie, Ind. Window-glass	28,537	July 7	76	158
Marion Cycle Company, Marion, Ind. Bicycles	28,052	Mar. 31	74	1895
Marquet, Horace M., Philadelphia, Pa. Remedy for rheumatism, neuralgia, catarrh, colds, piles, and kindred diseases	28,345	June 2	75	1545
Marsh, Riverins, New York, N. Y. Chimneys for lamps and lanterns	27,890	Mar. 3	74	1273
Marshall, Arthur G., St. Louis, Mo. Hog and poultry remedy	28,822	Aug. 25	76	1271
Marshall-Kennedy Milling Company, Allegheny and Pittsburg, Pa. Baking-powder	28,030	Mar. 31	74	1893
Martin, Aubrey H., New York, N. Y. Soap	28,275	May 19	75	1198
Martin, Aubrey H., New York, N. Y. Soap	28,770	Aug. 18	76	1111
Martin & Gibson Manufacturing Co., Buffalo, N. Y. Bicycles	28,612	July 14	76	332
Martindale, Thomas, Philadelphia, Pa. Tea, coffee, claret-wine, and syrup	28,565	July 7	76	161
Mason & Co., E. T., New York, N. Y. Rugs and carpets	27,801	Feb. 18	74	959
Mason, Frederic S., New York, N. Y. Remedy for rheumatism and kindred diseases	29,192	Nov. 24	77	1267
Mason Henklein Co., Hartford, Conn. Liquid decoctions or essences of beef, mutton, chicken, and like foods	28,842	Sept. 1	76	1415
Mather, Enoch, Paterson, N. J. Certain named medicinal preparations	27,737	Feb. 4	74	650
Maypole Soap Syndicate, Limited, London, England. Dyes	29,283	Dec. 8	77	1593
Maypole Soap Syndicate, Limited, London, England. Preparation used in the laundry for coloring purposes	29,284	Dec. 8	77	1593
McCord, Henry Y., and A. H. Spain, Atlanta, Ga. Medicated smoking compounds	29,170	Nov. 17	77	1121
McCord Rubber Company, St. Joseph, Mo., and Chicago, Ill. Rubber shoes	28,849	Sept. 1	76	1415
McCort, Charles F., Philadelphia, Pa. Raw and roasted peanuts	29,164	Nov. 17	77	1120
McCreath & Morgan, London, England. Certain named tools and hardware	27,877	Feb. 25	74	1119
McElwaine-Richards Company, Indianapolis and Noblesville, Ind. Bicycle-gear	27,976	Mar. 17	74	1586
McGraw Corset Company, McGrawville, N. Y. Skirts	28,120	Apr. 14	75	342
McKay Neverslip Sole Company, Detroit, Mich. Boots and shoes	29,343	Dec. 29	77	2130
McKee & Harrington, New York, N. Y. Bicycles	27,917	Mar. 3	74	1276
McKenzie Brothers & Hill, Watessing, N. J., and New York, N. Y. Perfumes, powders, toilet waters and articles, and essential oils	27,808	Feb. 18	74	960
McKesson & Robbins, New York, N. Y. Chemical preparations used in medicine, surgery, and pharmacy	28,278	May 19	75	1198
McKesson & Robbins, New York, N. Y. Chemical preparation	29,357	Dec. 29	77	2131
McKnight, Tunis K., Pittsburg, Pa. Asbestos or other material for covering pipes	27,638	Jan. 14	74	266
McLaughlin, John J., Toronto, Canada. Fermented or carbonated non-intoxicant beverage	28,105	Apr. 7	75	181
McLennan-French Paint Company, Limited, Buffalo, N. Y. Enamel and house paints, varnishes, and japans	28,600	July 14	76	332
McMahon, Michael D., Burlington, Vt. Maple syrup and sugar	27,958	Mar. 17	74	1584
McMullen & Co., Thomas, New York, N. Y. Ale	29,313	Dec. 15	77	1779
McMullen & Co., Thomas, New York, N. Y. Ale	29,368	Dec. 29	77	2132
McNab, John. (See Fav and McNab.)				
McNairy & Co., Amos B., Cleveland, Ohio. Paints	28,915	Sept. 29	76	2005
McNamara, Michael, New York, N. Y. Stencil-dies for cutting and stamping	28,049	Mar. 31	74	1895
McNeely & Co., G. H., Philadelphia, Pa. Glazed kid	28,734	Aug. 11	76	957
McWilliam, James E., Hubbardston, Mass. Cement for rubber goods, especially for bicycle-tires	29,137	Nov. 10	77	970
Mechanical Manufacturing Company, Nashua, N. H., and Boston, Mass. Air goods	27,985	Mar. 24	74	1726
Megler, Joseph G., Brookfield, Wash. Packed salmon and canned fruits and vegetables	28,400	June 16	75	1850
Megler, Joseph G., Brookfield, Wash. Packed salmon, fruits, and vegetables	29,385	Dec. 29	77	2134
Melick, William M., Philipsburg, Pa. Salves for use upon animals	27,671	Jan. 21	74	375
Mellwood Distillery Company, Louisville, Ky. Whisky	27,770	Feb. 11	74	804
Mellwood Distillery Company, Louisville, Ky. Whisky	27,959	Mar. 17	74	1584
Mellwood Distillery Company, Louisville, Ky. Whisky	28,037	Mar. 31	74	1894
Mellwood Distillery Company, Louisville, Ky. Whisky	28,038	Mar. 31	74	1894
Mellwood Distillery Company, Louisville, Ky. Whisky	29,332	Dec. 22	77	1934
Mellwood Distillery Company, Louisville, Ky. Whisky	29,333	Dec. 22	77	1935
Mellwood Distillery Company, Louisville, Ky. Whisky	29,334	Dec. 22	77	1935
Melrose & Co., Andrew, Edinburgh, Scotland. Tea	27,664	Feb. 25	74	1118
Menzel & Son, Wm., New York, N. Y. Wood preservatives	27,946	Mar. 10	74	1439
Menzel & Son, Wm., New York, N. Y. Wood and plant preservers	28,001	Mar. 24	74	1727
Mergenthaler, Marie H., Albany, N. Y. Fastening-tabs which are attachable to wearing-apparel	29,296	Dec. 15	77	1777
Merrell-Soule Company, Syracuse, N. Y. Farinaceous dietetic foods	28,273	May 19	75	1198
Merrick Thread Company, Holyoke, Mass. Thread	27,635	Jan. 14	74	266
Merrick Thread Company, Holyoke, Mass. Thread	27,848	Feb. 25	74	1117
Merrick Thread Company, Holyoke, Mass. Darning-cotton	27,884	Mar. 3	74	1273
Mexican Chile Supply Company, Fort Worth, Tex. Condiments containing Mexican chilli pepper	29,081	Nov. 3	77	807
Mexican Tobacco Company, Chicago, Ill. Leaf-tobacco	28,763	Aug. 18	76	1111
Meyer, Otto L. (See Broom and Meyer.)				
Meyer & Sons, John F., St. Louis and Springfield, Mo. Wheat-flour	28,845	Sept. 1	76	1415

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Mica Roofing Co., New York, N. Y. Building-papers	28,523	June 30	75	2192
Michigan Carbon Works, Detroit, Mich. Gelatin	27,953	Mar. 17	74	1584
Michigan Corset Company, Jackson, Mich. Ladies' corsets	27,591	Jan. 7	74	138
Middleton, James K., New York, N. Y. Neckwear	27,637	Jan. 28	74	491
Mierswa, Otto R., Oshkosh, Wis. Certain named remedies	27,927	Mar. 10	74	1438
Miller, Du Brul & Peters Manufacturing Company, Cincinnati, Ohio, and New York, N. Y. Sprayers	28,899	Sept. 29	76	2003
Miller & Johnson, Washington, D. C. Hair preserver and restorer	28,062	Mar. 31	74	1896
Miller, Peter S., Funk, Nebr. Liniments	29,349	Dec. 29	77	2131
Miller, Sloss & Scott, San Francisco, Cal. and New York, N. Y. Cutlery and edge-tools	29,059	Oct. 27	77	630
Miller & Sons, Leopold, New York, N. Y. Cigars, cigarettes, and cheroots and manufactured tobacco	29,101	Nov. 3	77	809
Miller & Sons, Leopold, New York, N. Y. Cigars, cigarettes, and cheroots and manufactured tobacco	29,102	Nov. 3	77	809
Miller, Tompkins & Co., New York, N. Y. Wrapping-paper, paper boxes, and paper bags	28,027	Mar. 31	74	1893
Milliken & Co., John T., St. Louis, Mo. Antiseptic preparations	27,964	Mar. 17	74	1585
Milliken & Co., Jno. T., St. Louis, Mo. Certain named remedies	28,134	Apr. 14	75	344
Millner, Isaac B., Washington, D. C. Preserved fish	28,222	May 5	75	831
Millwood, James P., New York, N. Y. Antiseptic and astringent applications and powder in bulk or in soaps and creams	28,653	July 21	76	473
Milton Bradley Company, Springfield, Mass. Wood and paper models for use in schools	28,471	June 30	75	2188
Milwaukee Harvester Company, Milwaukee, Wis. Self-binding harvesters, mowers, and separate parts thereof	28,726	Aug. 4	76	784
Milwaukee Novelty Co., Milwaukee, Wis. Badges	29,089	Nov. 3	77	808
Minneapolis Brewing Company, Minneapolis, Minn. Malt tonic, lager-beer, ale, and porter	27,813	Feb. 18	74	960
Miyamoto, Bella F., executrix. (See Miyamoto, Gonjiro.)				
Miyamoto, Gonjiro, deceased, New York, N. Y.; B. F. Miyamoto, executrix. Incense to be burned as a disinfectant	27,984	Mar. 17	74	1586
Moen, Stephen T., New York, N. Y. Safety-bicycles with pneumatic tires	28,327	June 2	75	1543
Moffitt-West Drug Company, St. Louis, Mo. Antiseptic medicines	27,806	Feb. 18	74	959
Moffitt-West Drug Company, St. Louis, Mo. Remedies for malnutrition and all its symptoms	28,176	Apr. 21	75	506
Moffitt-West Drug Company, St. Louis, Mo. Remedies for rheumatism, gout, lithiasis, scrofula, and kindred diseases	28,286	May 19	75	1199
Mohawk Condensed Milk Co., Rochester, N. Y. Condensed milk	28,627	July 21	76	471
Moline Plow Company, Moline, Ill. Disk harrows	28,727	Aug. 4	76	784
Monadnock Mills, Claremont, N. H., and Boston, Mass. Cotton goods, such as bedspreads, bed-quilts, counterpanes, and other Jacquard-woven goods, except towelings	29,128	Nov. 10	77	969
Monarch Cycle Manufacturing Company, Chicago, Ill., New York, N. Y., and San Francisco, Cal. Bicycles	28,094	Mar. 24	74	1730
Monohansett Manufacturing Company, Putnam, Conn. Cotton sheetings and shirtings	28,702	Aug. 4	76	782
Montgomery & Co., New York, N. Y. Tools, including edge-tools and mechanics' and engineers' tools of all kinds	28,253	May 12	75	992
Montgomery, George L., New York, N. Y. Sheetings and drillings	29,346	Dec. 29	77	2130
Montgomery, Henry S., Topeka, Kans. Watch-movements	28,674	July 28	76	605
Moore, Arthur W., Rochester, N. Y. Certain medicinal tonic	28,014	Mar. 24	74	1729
Moore & Co., Salisbury, Mo. Hog and cholera remedy	29,330	Dec. 22	77	1934
Moore, Thomas L., and N. B. Elgin, Welbourne, Va. Remedy for hog-cholera and similar diseases	28,164	Apr. 21	75	505
Moorman & Co., C. P., Louisville, Ky. Whisky	28,035	Mar. 31	74	1894
Morgan Crucible Company, Limited, London, England. Crucibles and plumbago	27,825	Feb. 18	74	961
Morgan, David E., Phenix City, Ala. Remedy for snuff, tobacco, and allied habits	27,858	Feb. 25	74	1118
Morison & Co., London, England. Pills, powders, and ointments	28,390	June 16	75	1849
Morrell, Alfred H., London, England. Medicated wines, spirits, and liquors	28,130	Apr. 14	75	343
Mortimer, Francis, New York, N. Y. Bicycles and parts thereof	28,406	June 16	75	1851
Moser & Lyon Company, Syracuse, N. Y. Pencils, penholders, and ink-wells	28,539	July 7	76	158
Moxon, William T., Mount Clemens, Mich. Liniment	28,066	Apr. 7	75	179
Müller & Co., E. B., New York, N. Y. Chicory coffee	28,687	July 28	76	607
Mullins, William H., Salem, Ohio. Certain named baking-pans	28,887	Sept. 22	76	1850
Mumford, Charles B., Kansas City, Mo. Remedies for rheumatism and blood diseases	28,512	June 30	75	2192
Munro, Alexander F., and G. O. Hitchings, Boston, Mass. Leather and leather pneumatic tires for bicycles and other wheels	29,288	Dec. 8	77	1594
Muntwyler & Dubler, New York, N. Y. Canned lobster	28,160	Apr. 21	75	505
Murphy, John D., New York, N. Y. Remedies for stomach, nerve, and blood diseases	28,217	May 5	75	831
Murphy, John D., New York, N. Y. Whisky and other distilled liquors	28,220	May 5	75	830
Murphy, John D., New York, N. Y. Remedies for nervous, stomach, and blood diseases	28,284	May 19	75	1199
Murphy, John J., Pittsfield, Mass. Cigars	27,750	Feb. 4	74	651
Muscatine Oat Meal Company, Muscatine, Iowa. Cereals	27,777	Feb. 11	74	804
Muscatine Oat Meal Company, Muscatine, Iowa. Prepared cereals	28,101	Apr. 7	75	181
Muscatine Oat Meal Company, Muscatine, Iowa. Prepared cereals	28,102	Apr. 7	75	181
Muscatine Oat Meal Company, Muscatine, Iowa. Rolled oats and oatmeal	28,309	May 26	75	1357
Myers & Bro., F. E., Ashland, Ohio. Pumps	28,665	July 21	76	474
Naef, John J., A. Branch, and J. Hilton, Paterson, N. J. Polishing cloths, gloves, and mittens	27,987	Mar. 24	74	1726
National Ammonia Company, St. Louis, Mo. Ammonia	29,049	Oct. 27	77	628
National Sewing Machine Company, Belvidere, Ill. Bicycles	27,758	Feb. 4	74	652
National Sewing Machine Company, Belvidere, Ill. Bicycles	28,185	Apr. 21	75	506
National Sewing Machine Company, Belvidere, Ill. Bicycles	29,033	Oct. 20	77	450
Naumkeag Steam Cotton Company, Salem, Mass., and New York, N. Y. Cotton fabrics	27,689	Jan. 28	74	491
Nawrath & Co., J. P., New York, N. Y. Cotton yarns	28,980	Oct. 13	77	309
Neer, Elizabeth A., Paterson, N. J. Certain liquid medicine for external and internal use	29,175	Nov. 17	77	1121
Nelson, Firm of Charles, Nashville, Tenn. Whisky	27,746	Feb. 4	74	651
Nelson, John W., Lexington, Ky. Medicinal preparation for the hair	28,140	Apr. 14	75	344
Nettleton, Albert E., Syracuse, N. Y. Boots and shoes	28,848	Sept. 1	76	1415
New York Asbestos Manufacturing Company, New York, N. Y. Non-conductive pipe and boiler covering	27,873	Feb. 25	74	1119
New York Coal Tar Chemical Company, New York, N. Y. Roofing-felt and building-paper	28,699	Aug. 4	76	782
New York Condensed Milk Company, New York, N. Y. Milk, cream, and cheese	27,775	Feb. 11	74	806
New York Fresh Tripe Company, New York, N. Y. Pickled and canned tongues and meats, tripe, and pigs' feet	28,310	May 26	75	1357
New York & Ohio Company, Warren, Ohio. Electric lamps	27,715	Jan. 28	74	493
New York Powder Company, New York, N. Y. Blasting-powder	28,126	Apr. 14	75	343
New York Standard Watch Company, Jersey City, N. J. Watches	28,657	July 21	76	473
New York Standard Watch Company, Jersey City, N. J. Watch-movements	29,220	Dec. 1	77	1423
Newell & Bro., San Francisco, Cal. Soap	28,018	Mar. 24	74	1729
Newell, Darius E., New York, N. Y. Pulleys	27,874	Feb. 25	74	1119
Niagara Paper Mills, Lockport, N. Y. Paper for pamphlet and other covers	28,320	June 2	75	1543
Nicholas, George S., New York, N. Y. Whisky	27,940	Mar. 10	74	1439

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Nicholsburg, Henry, New York, N. Y. Cleansing or washing apparatus for carriage-houses and the like	27,676	Jan. 21	74	375
Nicholson, Charles F. (See Alden and Nicholson.)				
Niles, Harry A. (See Crandal, Eastwood, Niles, and Wilkinson.)				
Nitid Varnish Feeder Co., Cincinnati, Ohio. Mixture for cleaning, polishing, and feeding varnished wood and cleaning and polishing metals	27,613	Jan. 7	74	140
Noble, Sallie C., Philadelphia, Pa. Preparations for preventing and overcoming odors from perspiration	23,604	July 14	76	332
Norddeutsche Wollkammerei & Kammgarnspinnerei, Bremen, Germany. Pharmaceutical and cosmetic products	28,679	July 28	76	606
Norddeutsche Wollkammerei & Kammgarnspinnerei, Bremen, Germany. Wool-fat and products of same	28,678	July 28	76	606
Norris, Du Wane, Chicago, Ill. Chewing-gum	28,590	July 14	76	331
North Dakota Milling Company, Grand Forks, N. D. Breakfast food, flour, cracked wheat, grits, farina, and purified middlings	28,482	June 30	75	2189
North & Judd Manufacturing Company, New Britain, Conn. Sole and heel protectors	29,122	Nov. 10	77	968
Northwestern Manufacturing Company, Sioux City, Iowa. Baking-powder	27,797	Feb. 11	74	804
Nostrand, Mead & Co., Philadelphia, Pa. Fly and insect catchers	28,328	June 2	75	1543
Novelty Mill Company, Parkersburg, W. Va. Wheat-flour	27,743	Feb. 4	74	650
Noyes, George E., Boston, Mass. Boots and shoes made of leather or of leather and cloth	28,408	June 16	75	1851
Noyes, George E., Boston, Mass. Boots and shoes made of leather or of leather and cloth	28,427	June 23	75	2004
Noyes, George E., Boston, Mass. Boots and shoes made of leather or of leather and cloth	29,258	Dec. 8	77	1591
Noyes, Orlando S., Philadelphia, Pa. Medicinal barks, roots, and herbs and preparations therefrom	28,175	Apr. 21	75	506
Nusbaum, Simon I., Albany, N. Y. Preparations in which whisky predominates	29,167	Nov. 17	77	1121
O'Bryan Bros., Nashville, Tenn. Wearing-apparel	28,464	June 30	75	2188
O'Keefe, Julia A., Randolph, Mass. Salve	28,941	Oct. 6	77	149
O'Mahony, Edward, Baltimore, Md. Ash-pans	27,788	Feb. 11	74	805
Oakland Manufacturing Company, Baltimore, Md. Woolen cloth	29,250	Dec. 8	77	1590
Oakville Company, Waterbury, Conn. Wire goods	27,754	Feb. 4	74	651
Oakville Company, Waterbury, Conn. Safety-pins	27,870	Feb. 25	74	1119
Oehme & Baier, Leipzig, Germany. Colors for confectioners	29,002	Oct. 13	77	311
Ohio Cultivator Company, Bellevue, Ohio. Sulky-cultivators, stalk-cutters, harrows, bean-harvesters, and corn-planters	29,243	Dec. 1	77	1426
Old Fort Spice and Extract Company, Fort Wayne, Ind. Spices and flavoring extracts	28,235	May 12	75	991
Old Fort Spice and Extract Company, Fort Wayne, Ind. Baking-powder	28,272	May 10	75	1198
Olms, Albert S., Palatine, Ill. Pulverized, tablet, or liquid remedy for headache	28,304	May 26	75	1357
Olms, Albert S., Palatine, Ill. Pulverized, tablet, or liquid remedy for headache	28,605	July 14	76	332
Olson, Harry, Chicago, Ill. Bicycles	27,882	Feb. 25	74	1120
Openhym, Adolphe, New York, N. Y. Velvetene and corduroys	28,058	Mar. 31	74	1896
Openhym, Adolphe, New York, N. Y. Crapes, nun's veiling, and black dress-goods other than velvetene	28,119	Apr. 14	75	342
Openhym, Adolphe, New York, N. Y. Silk ribbons	29,064	Nov. 3	77	806
Orr & Co., Limited, J. B., London, England. Paints	29,107	Nov. 3	77	810
Otto Gas Engine Works, Philadelphia, Pa. Internal-combustion engines	27,914	Mar. 3	74	1275
Otto Huber Brewery, Brooklyn, N. Y. Lager-beer and similar malt and hop liquid products	28,633	July 21	76	471
Owatonna Manufacturing Company, Owatonna, Minn. Combined churns and butter-workers	28,855	Sept. 1	76	1416
Owbridge, Walter T., Hull, England. Medicinal preparation for coughs, colds, and other affections of the lungs and respiratory organs	28,046	Mar. 31	74	1895
Owl Publishing Co., Boston, Mass. Magazines	28,470	June 30	75	2188
Oxford Manufacturing Co., New York, N. Y. Catamenial sacks	28,155	Apr. 21	75	504
P. H. Kelly Mercantile Company, St. Paul, Minn. Certain named grocers' goods	27,954	Mar. 17	74	1584
P. J. Cunningham Company, Philadelphia, Pa. Pianos	27,918	Mar. 3	74	1276
P. P. Mast & Company and Superior Drill Company, Springfield, Ohio. Cider-mill	27,725	Jan. 28	74	494
Pacific Coast Borax Company, San Francisco, Cal. Soap and cleansing powders	28,490	June 30	75	2190
Pacific Coast Borax Company, San Francisco, Cal. Borax, soap, cleansing compounds, and toilet and bath powders	28,491	June 30	75	2190
Pacific Coast Borax Company, San Francisco, Cal. Toilet and bath powders	28,492	June 30	75	2190
Pacific Coast Borax Company, San Francisco, Cal. Borax and its compounds, soap and powders, and lotions for cleansing and toilet purposes	28,719	Aug. 4	76	784
Pacific Steam Whaling Company, San Francisco, Cal. Lubricating-oil for machinery of all kinds	28,083	Apr. 7	75	179
Palmer, Firm of Solon, New York, N. Y. Perfumes, waters, powders, lotions, and soap	28,143	Apr. 14	75	345
Palmer, Firm of Solon, New York, N. Y. Perfumes, toilet waters, lotions, soaps, and powders	28,771	Aug. 18	76	1111
Palmer, Katherine, Omaha, Nebr. Cosmetics, face-powders, lotions, soaps, paste, and like articles	28,391	June 16	75	1849
Palmetto Fibre Company, Chicago, Ill., and Frederick, Md. Horse-brushes, dust-brushes, scrubbing-brushes, and the like	28,670	July 28	76	605
Parc et Cie., J. Bessard du, Jort, France. Cheese	29,098	Nov. 3	77	809
Parke & Co., L. H., Philadelphia, Pa. Prepared coffee	27,938	Mar. 10	74	1439
Parke & Co., L. H., Philadelphia, Pa. Tea	28,446	June 23	75	2005
Parker & Co., E. L., Baltimore, Md. Tin plates,terne plates, tin taggers, black taggers, sheet metal, sheet-iron, solder, cement, paint, and paper	28,663	July 21	76	474
Parker, Webb & Company, Detroit, Mich. Leaf-lard	28,736	Aug. 11	76	957
Parker, Webb & Company, Detroit, Mich. Leaf-lard	28,880	Sept. 15	76	1710
Patent Borax Company, Limited, Birmingham, England. Antiseptics, food preservatives, and allied preparations	27,863	Feb. 25	74	1118
Patterson, William J., Cresco, Iowa. Remedy for the tobacco habit	29,309	Dec. 15	77	1778
Patterson, James W., New York, N. Y. Ear-trumpets	28,794	Aug. 18	76	1114
Patterson, James W., New York, N. Y. Lenses and lens-cases and all optical goods using lenses	29,056	Oct. 27	77	629
Patterson-Sargent Company, Cleveland, Ohio. Paints and colors	27,640	Jan. 14	74	266
Paul, John E., Pipestone, Mont. Mineral waters and medicinal preparations containing the same	28,878	Sept. 15	76	1710
Paul Steam System Company, Boston, Mass. Heating or drying apparatus	27,928	Mar. 10	74	1438
Pearl Roller Mill Company, Oswego, Kans. Wheat-flour	29,147	Nov. 10	77	971
Peats, Alfred, Chicago, Ill., and New York, N. Y. Wall-paper	27,888	Mar. 3	74	1273
Peerless Manufacturing Company, Cleveland, Ohio. Bicycles	28,150	Apr. 14	75	346
Peerless Manufacturing Co., Washington, D. C. Chewing-gum	28,393	June 16	75	1850
Peet Manufacturing Company, Philadelphia, Pa. Garment-fastening eyes	27,989	Mar. 24	74	1726
Pendas & Alvarez, Y., New York, N. Y. Cigars, cigarettes, and smoking and chewing tobacco	28,339	June 2	75	1545
Pendas & Alvarez, Y., New York, N. Y. Tobacco and cigars	28,358	June 9	75	1701
Pendas & Alvarez, Y., New York, N. Y. Tobacco and cigars	28,359	June 9	75	1701
Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Caustic lye or caustic soda	28,881	Sept. 15	76	1710
Pennsylvania Steel Refining Company, Philadelphia, Pa. Refined steel	27,628	Feb. 18	74	961
Perkins, Charles G., Hartford, Conn. Incandescent electric lamps	28,370	June 9	75	1702
Perkins & Co., A. W., Rutland, Vt. Fertilizer for house-plants	28,969	Oct. 6	77	1501
Perkins, Gaius W., Grand Rapids, Mich. Carpet-sweepers	28,854	Sept. 1	76	1416

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Pernetti, Antonio B., Oakland, Cal. Native wines	27,643	Jan. 14	74	267
Perrin Frères & Cie., New York, N. Y. Kid, lambskin, and other leather or skin gloves	28,421	June 23	75	2003
Perry & Company, Limited, Birmingham, England. Parts of velocipedes	28,519	June 30	75	2192
Peters Cartridge Company, Cincinnati, Ohio. Ammunition, except bullets	27,971	Mar. 17	74	1585
Peters Cartridge Company, Cincinnati, Ohio. Ammunition	29,067	Nov. 3	77	806
Peters Cartridge Company, Cincinnati, Ohio. Articles of ammunition	29,378	Dec. 29	77	2135
Peters Cartridge Company, Cincinnati, Ohio. Articles of ammunition	29,389	Dec. 29	77	2135
Petersen, William, Brooklyn, N. Y. Remedy for infants' complaints	28,682	July 28	76	606
Petit, Clifton J., Detroit, Mich. Powder for the feet	28,553	July 7	76	160
Pfabe, Hugo, Chicago, Ill. Chemical preparation for removing scale from boilers and for neutralizing scale-producing substances in feed-water for same	28,045	Mar. 31	74	1895
Ph. & Wm. Ebling Brewing Company, New York, N. Y. Lager-beer, porter, and ale	28,742	Aug. 11	76	958
Philipp, Gustave A. (See Schulz and Philipp.)				
Philips, Robert E., Gainesville, Tex. Remedy for diseases of the liver	28,510	June 30	75	2191
Phillips Bros., Baltimore, Md. Certain named beverages	27,941	Mar. 10	74	1439
Phillips & Clark Stove Company, Geneva, N. Y. Stoves, ranges, and their parts and attachments	28,053	Mar. 31	74	1895
Phoenix Glass Company, Pittsburg, Pa. Lamps, lamp or gas globes, chimneys, shades, reflectors, and stands	28,972	Oct. 6	77	152
Piedmont Manufacturing Company, Greenville and Anderson counties, S. C. Sheetings, drillings, shirtings, and yarns	29,063	Nov. 3	77	806
Pierce & Co., Geo. N., Buffalo, N. Y. Bicycles, velocipedes, and similar vehicles	28,257	May 12	75	992
Pieser & Co., I., Chicago, Ill. Baking-powder, flour, and cereal preparations	28,451	June 23	75	2006
Pike Manufacturing Co., Worcester, Mass. Blacking for boots or shoes	28,720	Aug. 4	76	784
Pillsbury-Washburn Flour Mills Company, (Limited), Minneapolis, Minn. Wheat-flour	29,082	Nov. 3	77	807
Pillsbury-Washburn Flour Mills Company, (Limited), Minneapolis, Minn. Wheat-flour	29,083	Nov. 3	77	807
Pillsbury-Washburn Flour Mills Company, (Limited), Minneapolis, Minn. Flour	29,096	Nov. 3	77	809
Pillsbury-Washburn Flour Mills Company, (Limited), Minneapolis, Minn. Flour	29,097	Nov. 3	77	809
Pingree & Smith, Detroit, Mich. Shoes	29,119	Nov. 10	77	968
Pioneer Tar Soap Company, Dayton, Ohio. Tar soap	27,710	Jan. 28	74	493
Pittsburgh Reduction Company, Pittsburg, Pa. Aluminium and aluminium alloys	27,654	Jan. 14	74	263
Pleuger & Henger Manufacturing Company, St. Louis, Mo. Sprinklers	28,796	Aug. 18	76	1114
Plischke, Adolph, Philadelphia, Pa. Remedies for diphtheria and lung diseases	27,617	Jan. 7	74	141
Plymouth Stove Foundry Co., Plymouth, Mass. Stoves and ranges	29,219	Nov. 21	77	1270
Plymouth Stove Foundry Co., Plymouth, Mass. Oil and other stoves	29,239	Dec. 1	77	1425
Polk, Walter J. (See Goswell, Polk, and Dowdle.)				
Pope Manufacturing Company, Hartford, Conn. Velocipedes and parts thereof	29,977	Oct. 6	77	152
Pope Manufacturing Company, Hartford, Conn. Bicycles and like vehicles	29,397	Dec. 29	77	2136
Poppelik, Jacob, Milwaukee, Wis. Healing-salves	28,839	Sept. 1	76	1414
Popes Island Manufacturing Corporation, New Bedford, Mass. Culinary articles and tableware	28,226	May 5	75	831
Porterdale Mills, Porterdale, near Covington, Ga. Cotton rope, cord, and twine	28,330	June 2	75	1544
Postal Telegraph-Cable Company, New York, N. Y. Printed blanks and envelopes	29,221	Dec. 1	77	1423
Potter, Charles F., Minneapolis, Minn. Antiseptics and disinfectants	28,838	Sept. 1	76	1414
Potter & Wrightington, Boston, Mass. Coffee substitute	28,713	Aug. 4	76	723
Potter & Wrightington, Boston, Mass. Crackers, wafers, and malt extracts	29,140	Nov. 10	77	970
Freis, Cécile, New York, N. Y. Balm and toilet soap	28,042	Mar. 31	74	1864
Premier Cycle Manufacturing Company, Bridgeport, Conn. Bicycles	27,679	Jan. 21	74	376
Prenowitz, Jacob, New York, N. Y. Neckwear	28,353	June 9	75	1701
Press Publishing Company, New York, N. Y. Newspapers	29,245	Dec. 8	77	1590
Pringle, Jonathan P., Chicago, Ill. Chewing-gum	27,695	Jan. 28	74	492
Pritchard, Edward, New York, N. Y. Armonia, catsup, and sauce	28,564	July 7	76	161
Prössel, Agathe, Nuremberg, Germany. Corn-curers	28,940	Oct. 6	77	149
Prot & Co., Paul, Paris, France. Perfumery and other preparations for the toilet	27,714	Jan. 28	74	493
Prouty-Bowler Soap Company, Des Moines, Iowa. Toilet-soap	27,711	Jan. 28	74	493
Prouty-Bowler Soap Company, Des Moines, Iowa. Laundry and toilet soap	27,712	Jan. 28	74	493
Prouty-Bowler Soap Company, Des Moines, Iowa. Laundry and toilet soap	27,713	Jan. 28	74	493
Prune-Manna Co., Portland, Oreg. Tonic	27,618	Jan. 7	74	141
Publishing Advertising and Trading Syndicate, Limited, London, England. Waterproofed articles, waterproofing material, and apparatus for applying same	27,610	Jan. 7	74	140
Pugsley, Dingman & Co., Toronto, Canada. Soap	28,655	July 21	76	473
Puncturoid Manufacturing Co., Chelsea, Mass. Cement composition for mending pneumatic tires	29,396	Dec. 29	77	2135
Puritana Compound Company, Concord, N. H. Internal remedies and pills, tablets, and capsules	28,112	Apr. 7	75	182
Puritana Compound Company, Concord, N. H. Internal remedies and pills, tablets, and capsules	28,113	Apr. 7	75	182
Puritana Compound Company, Concord, N. H. Internal remedy in pills, tablets, and capsules	28,114	Apr. 7	75	182
Puritas Mineral Springs Company, Cleveland and Rockport, Ohio. Mineral-spring water	29,003	Oct. 13	77	311
Quince Co., Boston, Mass. Toilet soap	28,019	Mar. 24	74	1729
Quinn & Nolan Ale Brewing Company, Albany, N. Y. Ales and lager-beer	28,634	July 21	76	471
R. Hoehn Co., New York, N. Y. Thermometers	28,401	June 16	75	1851
R. J. Reynolds Tobacco Company, Winston, N. C. Chewing and smoking tobacco	27,752	Feb. 4	74	651
R. & W. Jenkinson Company, Pittsburg and Allegheny, Pa. Stogies	28,006	Oct. 13	77	311
Rafferty, William C., New York, N. Y. Range-finders	28,323	June 2	75	1543
Ramsey, J. L. (See Bobbitt and Ramsey.)				
Ranck, R. A. (See Hartmann and Ranck.)				
Raritan Hollow and Porous Brick Company, Keasbey, N. J., and New York, N. Y. Burnt-clay building and paving material	28,597	July 14	76	331
Raschke & Co., A., New York, N. Y. Remedies for erysipelas, fevers, catarrh, and liver and kidney diseases	28,914	Sept. 29	76	2005
Rasin, R. W. L., Baltimore, Md. Guano, phosphate, or other fertilizing compositions	28,287	May 19	75	1199
Rasin, Robert W. L., Baltimore, Md. Guano, phosphate, manure, and similar compounds	28,366	June 9	75	1702
Rasin, Robert W. L., Baltimore, Md. Fertilizing compositions or compounds	28,367	June 9	75	1702
Rasin, Robert W. L., Baltimore, Md. Soluble sea-island guano	28,602	July 14	76	332
Rasin, Robert W. L., Baltimore, Md. Guano, superphosphates, and fertilizing compositions	28,603	July 14	76	332
Rasin, Robert W. L., Baltimore, Md. Guano	29,108	Nov. 3	77	810
Rasin, Robert W. L., Baltimore, Md. Guanos, phosphates, manures, and superphosphates	29,109	Nov. 3	77	810
Raworth, Schodde & Co., Chicago, Ill. Soap	29,020	Oct. 20	77	449
Rawson, Edmund G., Saratoga Springs, N. Y. Suspensory bandages	28,586	July 14	76	330
Raynor, Benjamin F., Jr., New York, N. Y. Bicycles	28,613	July 14	76	332
Reading Rubber Tire Co., Reading, Mass. Pneumatic tires for bicycles and other vehicles	28,229	May 5	75	832
Reading Standard Manufacturing Company, Reading, Pa. Bicycles, tricycles, and the like	28,759	Aug. 11	76	960
Reddeman, Lebrecht T., Sun Prairie, Wis. Salve	29,095	Nov. 3	77	809
Reed & Carnrick, New York, N. Y. Compound adapted by its ingredients to form a nutritious beverage when mixed with water	28,132	Apr. 14	75	343
Reed & Gere Manufacturing Co., St. Joseph, Mo. Baking-powder, soda, saleratus, washing-powders, extracts, spices, and bluing	28,096	Apr. 7	75	180

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Reed, Walsh & Lange, Chicago, Ill. Canned fruits, vegetables, mackerel, and lobster, ext. acts, lye, cheese, baking-powder, olives, cigars, starch, dried fruits, vinegar, and bird-seed.....	28,448	June 23	75	2005
Reed, Walsh & Lange, Chicago, Ill. Canned fruits, vegetables, fish, extracts, lye, cheese, baking-powder, olives, cigars, starch, dried fruits, vinegar, and bird-seed.....	28,465	June 30	75	2189
Reed, Walsh & Lange, Chicago, Ill. Tea.....	28,886	Sept. 22	76	1850
Reed, Walsh & Lange, Chicago, Ill. Tea.....	28,928	Oct. 6	77	148
Reeder, John S., Hamilton, Ohio. Paints.....	28,916	Sept. 29	76	2005
Reepmaker, Jacob, Rotterdam, Netherlands. Chemical substance for protection against mosquitos and other insects.....	28,549	July 7	76	159
Reeve & Co., C. A., Syracuse, N. Y. Wood-fillers.....	29,324	Dec. 15	77	1780
Regenbart & Raymann, Vienna, Austria-Hungary. Linens.....	28,582	July 14	76	330
Remington Arms Company, Ilion, N. Y. Bicycles and other velocipedes and parts thereof.....	28,610	July 14	76	332
Restorff & Bettmann, New York, N. Y. Leather-dressing.....	28,081	Apr. 7	75	179
Revere Rubber Company, Boston, Mass. Yielding or pneumatic tires.....	28,517	June 30	75	2192
Rheinisch-Westfälische Sprengstoff-Actien-Gesellschaft, Cologne, Germany. Smokeless powder.....	27,901	Mar. 3	74	1274
Rhode, Rudolph E., Chicago, Ill. Iron tonic.....	28,959	Oct. 6	77	150
Rice & Hutchins, Incorporated, Boston, Mass. Boots and shoes.....	29,121	Nov. 10	77	968
Rice Musical String Company, New York, N. Y. Strings for musical instruments.....	28,923	Sept. 29	76	2006
Rice, Thomas B., Greensborough, N. C. Liniment.....	28,681	July 28	76	606
Rich & Co., Aquila, New York, N. Y. Colors in oil and dry colors.....	28,207	May 5	75	829
Rich & Co., Aquila, New York, N. Y. Colors in oil and dry colors.....	28,208	May 5	75	829
Rich & Co., Aquila, New York, N. Y. Paint and stain remover and cleaning solution.....	28,209	May 5	75	829
Rich & Co., Aquila, New York, N. Y. Lead, zinc, and ready-mixed paint.....	28,210	May 5	75	830
Rich & Co., Aquila, New York, N. Y. Leads.....	28,211	May 5	75	830
Rich & Co., Aquila, New York, N. Y. Leads.....	28,212	May 5	75	830
Rich & Co., Aquila, New York, N. Y. Leads.....	28,213	May 5	75	830
Rich & Co., Aquila, New York, N. Y. Leads.....	28,214	May 5	75	830
Rich & Co., Aquila, New York, N. Y. Leads.....	28,296	May 26	75	1356
Rich & Co., Aquila, New York, N. Y. Colors in oil, dry colors, and liquid paints.....	28,335	June 2	75	1544
Richardson, Alonzo F., New York, N. Y. Pills and pellets.....	28,012	Mar. 24	74	1728
Richardson, Alonzo F., New York, N. Y. Internal remedies for pulmonary, blood, and other diseases.....	28,173	Apr. 21	75	505
Richardson, Christopher, Newark, N. J. Antifriction metal bars and bearings.....	27,719	Jan. 28	74	494
Richardson & De Long Bros., Philadelphia, Pa. Hair-pins.....	27,972	Mar. 17	74	1586
Richardson & De Long Bros., Philadelphia, Pa. Hair-pins.....	27,973	Mar. 17	74	1586
Richardson & De Long Bros., Philadelphia, Pa. Hair-pins.....	28,072	Apr. 7	75	178
Richmond Bicycle Company, Richmond, Ind. Bicycles, their parts, and accessories.....	28,300	May 26	75	1356
Richmond Cavendish Company, Limited, Liverpool, England. Smoking-tobacco.....	27,753	Feb. 4	74	651
Richmond, Samuel A., Tuscola, Ill. Fluid remedy for epilepsy and other nervous diseases.....	27,734	Feb. 4	74	649
Rielly & Son, P., Newark, N. J. Morocco, patent-leather, and goods of that character.....	27,843	Feb. 25	74	1117
Riley & Co., Wm. B., Philadelphia, Pa. Horse-blankets and lap and carriage robes.....	28,118	Apr. 14	75	342
Riley & Co., Wm. B., Philadelphia, Pa. Horse-clothing and lap and carriage robes.....	28,893	Sept. 29	76	2002
Riley & Co., William B., Philadelphia, Pa. Horse-blankets.....	28,954	Oct. 6	77	150
Riley & Co., Wm. B., Philadelphia, Pa. Wraps, boas, hoods, collarettes, and other garments.....	29,251	Dec. 8	77	1590
Riley & Co., Wm. B., Philadelphia, Pa. Wraps, boas, hoods, collarettes, and other garments.....	29,252	Dec. 8	77	1590
Ripley & Son, Edward, Bradford, England. Woolen and worsted goods.....	28,619	July 21	76	470
Rippowam Woolen Manufacturing Company, Greenwich, Conn. Lap-robes.....	28,587	July 14	76	331
Ritter, Firm of John A. & William V., West Baden, Ind. Certain medicinal tablets.....	27,738	Feb. 4	74	650
Rivera & Co., A., Sonsonate, San Salvador, and New York, N. Y. Remedy for certain named diseases.....	27,650	Jan. 14	74	268
Rives, George H., Chicago, Ill. Perfumes.....	27,996	Mar. 24	74	1727
Roach, Charles A., St. Paul, Minn. Remedies for throat and lung affections.....	28,956	Oct. 6	77	150
Roberts Brothers, West Jefferson, Ohio. Butter-powder.....	29,160	Nov. 17	77	1120
Roberts, Joseph D., New Bedford, Mass. Toilet powder.....	28,493	June 30	75	2190
Robeson, Louis, Boston, Mass. Sheetings.....	27,587	Jan. 7	74	138
Robinson-Danforth Commission Company, St. Louis, Mo. Farinaceous food and feed preparations.....	27,666	Jan. 21	74	374
Rochester Brewing Company, Rochester, N. Y. Lager-beer.....	28,567	July 7	76	161
Rochester Brewing Company, Rochester, N. Y. Malt tonics.....	28,935	Oct. 6	77	149
Rockford Sugar Refining Company, Limited, Rockford, Ill. Glucose and grape-sugar.....	28,963	Oct. 6	77	151
Rodriguez, Arturo, New York, N. Y. Cigarettes.....	28,834	Sept. 1	76	1414
Roeleofs & Co., Henry H., Philadelphia, Pa. Hats for men and boys.....	28,760	Aug. 18	76	1111
Romeo & Co., F., New York, N. Y. Olive-oil.....	29,145	Nov. 10	77	971
Ronca, Giuseppe, Boston, Mass. Preserved fruits.....	28,869	Sept. 8	76	1571
Roof, Clarence M., New York, N. Y. Gin, rum, and whisky.....	29,369	Dec. 29	77	2133
Roof, Clarence M., New York, N. Y. Whisky.....	29,370	Dec. 29	77	2133
Roof, Clarence M., New York, N. Y. Whisky.....	29,371	Dec. 29	77	2133
Root Manufacturing Company, Cohoes, N. Y. Knitted underwear.....	28,233	May 12	75	991
Rosatto, Frank, Philadelphia, Pa. Cushions for billiard and pool tables.....	27,633	Jan. 14	74	266
Rothschild Bros. & Co., New York, N. Y. Braids.....	27,668	Jan. 28	74	491
Rothschild Bros. & Co., New York, N. Y. Peptonate of iron.....	27,701	Jan. 28	74	492
Rubber Paint Company, Chicago, Ill. Chewing-gum.....	28,412	June 16	75	1852
Rueckheim & Bro., F. W., Chicago, Ill. Confectionery and candied popcorn.....	28,016	Mar. 24	74	1729
Rueth, John M., Washington, D. C. Baked cereal products.....	27,869	Feb. 25	74	1119
Russell & Birkett, Penn Yan, N. Y. Wheat and self-raising flours.....	28,031	Mar. 31	74	1893
Russell, Harry W., Huntsville, Ala. Handles for axes and similar tools.....	28,147	Apr. 14	75	345
Russell, Ralph M., Birmingham, Ala. Remedies for blood, stomach, nerve, and other diseases.....	28,746	Aug. 11	76	958
Ryckman Medicine Co., S. S., Hamilton, Canada. Certain named remedies.....	27,651	Jan. 14	74	268
S. G. Adams Stamp and Seal Company, St. Louis, Mo. Stamps, seals, daters, stencils, and the like.....	27,717	Jan. 28	74	493
S. Hershheim, Bros. & Company, Limited, New Orleans, La. Tobacco and cigars.....	29,363	Dec. 29	77	2132
S. Hershheim, Bros. & Company, Limited, New Orleans, La. Tobacco and cigars.....	29,366	Dec. 29	77	2132
Sackersdorff, Gustav, Cleveland, Ohio. Lead-pencils, penholders, and crayons.....	28,675	July 28	76	605
Sackett, Edward A., Chicago, Ill. Compounds for exterminating bugs, roaches, moths, insects, and germs.....	29,017	Oct. 20	77	449
Sacks, Louis, Newark, N. J. Heel-plates for boots or shoes.....	27,975	Mar. 17	74	1586
Sadler, Firth & Ross, Limited, London, England. Mustard and spices.....	27,973	Dec. 8	77	1592
Salade Française Company, New York and Brooklyn, N. Y. Salad-dressing.....	29,292	Mar. 24	74	1726
Salvation Blood Purifier Company, Atlanta, Ga. Internal remedy for the blood.....	29,014	Oct. 20	77	449
Salvation Blood Purifier Company, Atlanta, Ga. Internal remedy for blood and skin diseases.....	29,015	Oct. 20	77	449
Sam'l Cupples Wooden Ware Company, St. Louis, Mo. Rope and cordage.....	28,416	June 23	75	2003
Samostz, Oscar, New York, N. Y. Toilet powder.....	27,764	Feb. 11	74	81
Sanche, Hercules, Detroit, Mich., assignor to Animarium Company, New York, N. Y. Clinical and office instruments and apparatus.....	29,214	Nov. 24	77	1270
Sanche, Hercules, Detroit, Mich., assignor to Animarium Company, New York, N. Y. Clinical and office instruments and apparatus.....	29,215	Nov. 24	77	1270

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Sanche, Hercules, Detroit, Mich., assignor to Animarium Company, New York, N. Y. Clinical instruments and apparatus	29,216	Nov. 24	77	1270
Sanche, Hercules, Detroit, Mich., assignor to Animarium Company, New York, N. Y. Clinical and office instruments and apparatus	29,300	Dec. 15	77	1777
Sanchez & Haya Company, New York, N. Y. Cigars	28,902	Sept. 29	76	2003
Sanderson & Co., E. J., Madelia, Minn. Veterinary remedies	29,329	Dec. 22	77	1934
Santa Barbara Lemon Growers' Exchange, Santa Barbara, Cal. Lemons	29,000	Oct. 13	77	311
Santa Barbara Lemon Growers' Exchange, Santa Barbara, Cal. Lemons	29,001	Oct. 13	77	311
Saver Medical Co., New York, N. Y. Remedies for malaria, liver complaints, coughs, colds, whooping-cough, and catarrh	28,511	June 30	75	2191
Saxlehner, Emily, Buda-Pesth, Austria-Hungary. Salts of natural aperient waters and medicinal preparations containing such salts	28,765	Aug. 18	76	1111
Saxlehner, Emily, Buda-Pesth, Austria-Hungary. Salts of natural aperient waters and medicinal preparations containing such salts	28,766	Aug. 18	76	1111
Schenck & Stiebeling, New York, N. Y. Effervescent salt for medical purposes	28,707	Aug. 4	76	783
Schetter, Louis, New York, N. Y. Wines and liquors	29,331	Dec. 22	77	1934
Schiff, Jordan & Co., Vienna, Austria-Hungary. Carbons for electric-arc lamps	27,911	Mar. 3	74	1275
Schinasi & Co., S., New York, N. Y. Cigarettes and smoking-tobacco	28,033	Mar. 31	74	1894
Schlitt, Firm of Joh., Mayence, Germany. Wines	28,443	June 23	75	2005
Schlitz, Henry M., Cleveland, Ohio. Liquid compound for closing punctures and slits in inflated wheel-tires	28,429	June 23	75	2004
Schmidt, Firm of Conrad W., Stratford, England. Varnishes	28,724	Aug. 4	76	784
Schmidt, Fritz, Brooklyn, N. Y. Gloves	27,609	Jan. 7	74	140
Schmidt, Samuel, New York, N. Y. Flavoring extracts	28,692	July 28	76	607
Schmidt & Ziegler, New Orleans, La. Claret-wine	29,268	Dec. 8	77	1592
Schnorr, Frank A., Ashton, S. D. Lubricating-oils	28,599	July 14	76	332
Schnull & Co., Indianapolis, Ind. Canned fruits, beans, peas, tomatoes, corn, salmon, oysters, olives, pickles, and olive-oil	28,196	Apr. 28	75	672
Schoble & Co., Frank, Philadelphia, Pa. Men's and boys' fur-felt hats, soft and stiff	28,525	July 7	76	157
Schoeller, Gebrüder, Düren, Germany. Carpets, covers, and furniture stuffs	28,979	Oct. 13	77	309
Schoenfelder & Kehle, Newark, N. J. Cameras, boxes, plate-holders, and packing-cases	29,057	Oct. 27	77	629
Schooley & Son, Henry N., Luzerne, Pa. Wheat-flour	28,100	Apr. 7	75	181
Schröter & Co., Louis, Hamburg, Germany. Dried fruits	29,386	Dec. 29	77	2135
Schulemann, Frederick, New York, N. Y. Bulgarian embroidery and embroidery-yarn	27,932	Mar. 10	74	1438
Schulz, Friedrich A., and G. A. Philipp, Leipsic, Germany. Cleaning and polishing preparations and wash-blue	28,021	Mar. 24	74	1739
Schweinburg, Emil, New York, N. Y. Corsets	27,589	Jan. 7	74	138
Schweinburg, Emil, New York, N. Y. Corsets	27,590	Jan. 7	74	138
Scoffield, Shurmer & Teagle, Cleveland, Ohio. Illuminating-oil	28,044	Mar. 31	74	1895
Scovill Manufacturing Company, Waterbury, Conn. Lamp-burners	28,884	Sept. 15	76	1710
Souder, Frederic P., Brooklyn, N. Y. Licorice	27,809	Feb. 18	74	960
Sedwick, Samuel C., Temple, Tex. Chicken-powders	28,557	July 7	76	160
Seiberling, John F., Akron, Ohio. Rubber or cushion tires for vehicles	23,896	Sept. 29	76	2003
Self-Healing Pneumatic Tire Company, New York, N. Y. Rubber vehicle-tires, bags, or other articles of rubber holding gases, their compounds, or fluids	28,301	May 26	75	1356
Seth Thomas Clock Company, New York, N. Y. Wooden clock-cases	29,218	Nov. 24	77	1270
Seymour, Robert H., Holyoke, Mass. Shears and scissors	29,184	Nov. 17	77	1122
Shain, Charles D., New York, N. Y. Garment-supporters	28,585	July 14	76	330
Sharp & Dohme of Baltimore City, Baltimore, Md., New York, N. Y., and Chicago, Ill. Gelatin capsules of sandalwood and other oils	29,048	Oct. 27	77	628
Shattuck, Joseph, Nashua, N. H. Pepsin wafers	29,195	Nov. 24	77	1267
Shaw & Co., Alex. D., New York, N. Y. Whisky	29,037	Oct. 27	77	627
Shaw, Frank E. E., New York, N. Y. Certain named remedies	27,736	Feb. 4	74	650
Shaw Stocking Company, Lowell, Mass. Hosiery	29,157	Nov. 17	77	1120
Shelby Mill Company, Shelby, Ohio. Ground or milled cereals	29,278	Dec. 8	77	1593
Shepard & Co., C. Sidney, Chicago, Ill. Tin plates andterne plates	28,458	June 23	75	2006
Shepard & Co., C. Sidney, Chicago, Ill. Tin plates andterne plates	28,459	June 23	75	2006
Sheppey, Alonzo N., Warren, Ohio. Earth-fertilizers	27,615	Jan. 7	74	141
Shoenberger Steel Company, Pittsburg, Pa. Horseshoes	27,606	Jan. 7	74	140
Siebert & Co., C. Otto, St. Louis, Mo. Remedies for diseases of the stomach, liver, and kidneys	28,508	June 30	75	2191
Silver Lake Company, Boston, Mass. Solid-braided cords for windows and the like	29,090	Nov. 3	77	808
Silvermann & Co., Williamsport, Pa. Suspenders, shoulder-braces, and garment-supporters	28,668	July 28	76	605
Simard, George A., North Adams, Mass. Remedies for women's diseases	28,744	Aug. 11	76	958
Simmons, M. A., Jr., Helena, Ark. Stomach and liver medicine	27,961	Mar. 17	74	1585
Simpson & Co., Bagdad, Fla. Yellow-pine lumber	27,608	Jan. 7	74	140
Singer Safety Hook and Eye Company, Grand Rapids, Mich. Hooks and eyes	27,593	Jan. 7	74	138
Singer Safety Hook and Eye Company, Grand Rapids, Mich. Hooks and eyes	27,594	Jan. 7	74	138
Skilling, Orin G., New York, N. Y. Stove-polish	28,000	Mar. 24	74	1727
Skilton, Foote & Co., Somerville, Mass. Pickles	29,198	Nov. 24	77	1267
Sloman & Co., S. A., Cincinnati, Ohio. Whisky	28,635	July 21	76	471
Smiley, Hugh G., Chicago, Ill. Adhesive tablet gum and solidified mucilage	27,761	Feb. 11	74	803
Smith, Collins & Co., Buffalo, N. Y. Soft bread	29,380	Dec. 29	77	2134
Smith, George F., Woodsborough, Md. Salve or ointment	28,137	Apr. 14	75	344
Smith, Henry B., Chicago, Ill. Wheat-flour	27,667	Jan. 21	74	374
Smith, Henry B., Chicago, Ill. Flour	28,097	Apr. 7	75	180
Smith, Henry B., Chicago, Ill. Flour	28,098	Apr. 7	75	180
Smith, John G., Chicago, Ill. Spring bed-bottoms	28,522	June 30	75	2192
Smith, Normand K., Peoria, Ill. Hominy	27,821	Feb. 18	74	961
Smith & Peters, Philadelphia, Pa. Lozenges and other confectionery	29,139	Nov. 10	77	970
Smith & Peters, Philadelphia, Pa. Lozenges and other confectionery	29,374	Dec. 29	77	2133
Smith & Son, George W., Hartford, Vt. Cough drops, tablets, or lozenges	28,411	June 16	75	1851
Smith & Son, George W., Hartford, Vt. Cough drops in the form of tablets or lozenges	28,841	Sept. 1	76	1414
Smith & Thayer Company, Boston, Mass. Steam and hot-water house-heaters	28,200	Apr. 28	75	672
Société Anonyme de la Distillerie de la Liqueur Bénédicte de l'Abbaye de Fécamp, Fécamp, France. Liquor	29,166	Nov. 17	77	1121
South Bend Iron Works, South Bend, Ind. Plows and their parts	27,929	Mar. 10	74	1438
Southern Agricultural Works, Atlanta, Ga. Plows, cultivators, and their parts and attachments	27,893	Feb. 25	74	1120
Southworth Company, Mittineague, Mass. Writing-paper and envelopes	29,034	Oct. 27	77	627
Spain, Albertus H. (See McCord and Spain.)				
Spalding & Bros., A. G., Chicago, Ill., and New York, N. Y. Bicycle-saddles	28,830	Aug. 25	76	1272
Spalding, Jedediah, Chicago, Ill. Electric and magnetic belts, pads, rings, bracelets, bandages, and analogous devices	28,182	Apr. 21	75	506
Spanogle & Yeager, Lewistown, Reedsville, and Milroy, Pa. Flour	28,449	June 23	75	2005
Spanogle & Yeager, Lewistown, Reedsville, and Milroy, Pa. Flour	28,562	July 7	76	161

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Spaulding & Pepper Company, Chicopee Falls, Mass. Pneumatic bicycle-tires	27,757	Feb. 4	74	652
Speir, Samuel F., Brooklyn, N. Y. Food for infants and invalids	27,598	Jan. 7	74	139
Spence-Grant Manufacturing Company, East Orange, N. J., and Brooklyn, N. Y. Dry and mixed paints and colors	28,243	May 12	75	991
Spencer, Thomas P., Lynchburg, Va. Composition for preserving patent-leather	28,939	Oct. 6	77	149
St. Joseph Manufacturing Company, Mishawaka, Ind. Plows and cultivators	28,186	Apr. 21	75	506
Stahl, George H., Quincy, Ill. Incubators and brooders	27,836	Feb. 18	74	962
Stahlhuth, Ernst H. W., Columbus, Ind. Pain-extractor, system-regulator, headache-powder, plaster, and poultry-powder	28,642	July 21	76	472
Stamford Manufacturing Company, New York, N. Y. Licorice and licorice products	28,636	July 21	76	471
Standard Dry Kiln Company, Indianapolis, Ind. Drying-kilns	28,859	Sept. 1	76	1416
Standard Homoeopathic Globule Manufactory, New York, N. Y. Medicines in pure cane-sugar globules, absorbent sugar disks, and sugar-of-milk tablets	28,774	Aug. 18	76	1112
Standard Oil Company of New York, New York, N. Y. Illuminating-oils	29,337	Dec. 22	77	1935
Standard Oil Company of New York, New York, N. Y. Illuminating-oils	29,338	Dec. 22	77	1935
Standard Oil Company of New York, New York, N. Y. Illuminating-oils	29,339	Dec. 22	77	1935
Standard Rope and Twine Company, New York, N. Y. Rope and twine	27,798	Feb. 11	74	806
Standard Rope and Twine Company, New York, N. Y. Rope and twine	28,533	July 7	76	158
Standard Rope and Twine Company, New York, N. Y. Rope and twine	28,534	July 7	76	158
Standard Sewing Machine Company, Cleveland, Ohio. Sewing-machines and attachments	27,756	Feb. 4	74	652
Standard Sewing Machine Company, Cleveland, Ohio. Sewing-machines and their parts	27,837	Feb. 13	74	962
Standard Sewing Machine Company, Cleveland, Ohio. Sewing-machines and their operative parts and attachments	27,838	Feb. 18	74	962
Standard Sewing Machine Company, Cleveland, Ohio. Sewing-machines and attachments, except needles	27,878	Feb. 25	74	1119
Stanley Cycle Manufacturing Company, New York, N. Y. Bicycles, parts, and sundries	28,415	June 16	75	1852
Stanley & Patterson, New York, N. Y. Electric batteries	27,912	Mar. 3	74	1275
Star Knitting Company, La Crosse, Wis. Knit mittens	29,253	Dec. 8	77	1591
Stationers Engraving Company, New York, N. Y. Wedding and correspondence stationery and visiting-cards	27,887	Mar. 3	74	1273
Staynes & Smith, W. H., Leicester, England. Scouring and abrading cloths and papers	28,262	May 19	75	1197
Stedman, James H., London, England. Teething-powders	28,999	Oct. 13	77	311
Stedman, John P., Oxford, N. C. Remedy for headaches and neuralgia	27,652	Jan. 14	74	268
Steinert, Henry L., Philadelphia, Pa. Pianos and organs	28,826	Aug. 25	76	1272
Steinert, Morris, New Haven, Conn. Keyed stringed instruments	28,970	Oct. 6	77	152
Steinhardt & Bro., A., New York, N. Y. Corset-clasps and dress-steels	27,592	Jan. 7	74	138
Steinkopf, Edward, London, England. Aperient mineral water	27,744	Feb. 4	74	650
Steinkraus, Clara and H., Chicago, Ill. Medicinal tea	29,361	Dec. 29	77	2132
Steinkraus, Herman. (See Steinkraus, Clara and H.)				
Steinwender-Stoffregen Coffee Company, St. Louis, Mo. Roasted coffee	28,103	Apr. 7	75	181
Sterling Cycle Works, Chicago, Ill. Bicycles	29,340	Dec. 22	77	1936
Stern & Sons, Bernhard, Milwaukee, Wis. Wheat-flour	28,099	Apr. 7	75	180
Stern & Sons, Bernhard, Milwaukee, Wis. Wheat-flour	28,689	July 28	76	607
Sternbergh & Son, J. H., Reading, Pa. Nuts and bolts	27,678	Jan. 21	74	376
Sternbergh & Son, J. H., Reading, Pa. Railway-track bolts	27,718	Jan. 28	74	493
Stevens & Co., S. J., Cincinnati, Ohio. Elgin creamery-butter	29,161	Nov. 17	77	1120
Stevens, George I., Essex, Conn. Tooth-washes, gargles, and antiferments for the cure of sprains, catarrh, and microbian diseases	28,749	Aug. 11	76	959
Stevenson, William N., New York, N. Y. Umbrellas and parasols	28,263	May 19	75	1197
Stewart, Howe & May Company, Jersey City, N. J., New York, N. Y., Boston, Mass., Cleveland, Ohio, Chicago, Ill., San Francisco, Cal., and Manchester, England. Skirt-binding	27,885	Mar. 3	74	1273
Stewart, Josephine A., Mount Ida, Ark. Fluid washing compounds	27,601	Jan. 7	74	139
Stewart, Ralph & Co., Philadelphia, Pa. Snuff	28,693	July 28	76	607
Stickel, Charles, New York, N. Y. Lithographic inks	28,472	June 30	75	2188
Stickney & Poor Spice Company, Boston, Mass. Mustard and spices	28,791	Aug. 18	76	1113
Stickney & Poor Spice Company, Boston, Mass. Mustard and spices	28,792	Aug. 18	76	1114
Stickney & Poor Spice Company, Boston, Mass. Spices	28,815	Aug. 25	76	1271
Still, Allen H., New York, N. Y. Antipyretic and analgesic preparations	29,307	Dec. 15	77	1778
Still, Allen H., New York, N. Y. Medicinal wine	29,308	Dec. 15	77	1778
Stiner & Co., Joseph, New York, N. Y. Tea and coffee	28,104	Apr. 7	75	181
Stirn, Norma A. (See Bechman and Stirn.)				
Stoddard Manufacturing Company, Dayton, Ohio. Bicycles	28,976	Oct. 6	77	152
Stoddard Manufacturing Company, Dayton, Ohio. Bicycles	29,009	Oct. 13	77	312
Stokes, William H., Watertown, S. D. Patent wheat-flour	29,084	Nov. 3	77	808
Stokes, William H., Watertown, S. D. Patent wheat-flour	29,381	Dec. 29	77	2134
Stokes, William H., Watertown, S. D. Patent wheat-flour	29,382	Dec. 29	77	2134
Stone Sterling Silver Co., New York, N. Y. Jewelry and silverware	28,350	June 9	75	1701
Stössel, Alberto, Los Angeles, Cal. Bitters	28,908	Sept. 29	76	2004
Stowe, Benjamin L., Jersey City, N. J. Hydraulic hose	28,419	June 23	75	2003
Straus & Sons, L., New York, N. Y. Bicycles, velocipedes, and horseless carriages, their parts and attachments	27,916	Mar. 3	74	1276
Strauss & Co., Adolph, New York, N. Y. Optical toy	28,188	Apr. 28	75	671
Strauss, Gustavus E. and E. Klahn, New York, N. Y. Nut-locks	29,031	Oct. 20	77	450
Strauss, Sachs & Co., New York, N. Y. Toy cameras	27,603	Jan. 7	74	139
Striker, Solomon D., Chicago, Ill. Wall-paper cleaners	28,242	May 12	75	991
Strous, Eisendrath & Drom, Chicago, Ill. Ladies' waists, blouses, wrappers, and gowns, and children's suits, knee-pants, waists, and blouses	27,919	Mar. 10	74	1437
Sullivan, Elizabeth, Osawatomie, Kans. Liniments, extracts, and like preparations	28,245	May 12	75	992
Sullivan, Mary A., New York, N. Y. Medicine in the form of pills	27,803	Feb. 18	74	959
Sumner & Goodwin, Boston, Mass. Hot-water and steam heating supplies, including radiators, pipe-fittings, tubing, and similar goods	27,915	Mar. 3	74	1276
Sussfeld, Lorsch & Co., New York, N. Y. Opera and marine glasses	28,258	May 19	75	1197
Swan, James A., Passaic, N. J. Cold cure and remedy for diseases of the throat, lungs, and nasal organs	29,328	Dec. 22	77	1934
Swanson Rheumatic Cure Company, Chicago, Ill. Remedies for rheumatism, gout, neuralgia, and kindred ailments	27,702	Jan. 28	74	492
Swift & Company, Chicago, Ill. Hams, bacon, pressed meats, sausage, cooked meats, shoulders, shortenings, and other provisions	28,452	June 23	75	2006
Swift & Company, Chicago, Ill. Oleaginous food substances	28,781	Aug. 18	76	1112
Syracuse Specialty Manufacturing Company, Syracuse, N. Y. Bicycles and tricycles	27,639	Feb. 18	74	962
Tabor, Thomas H., Ellijay, Ga. Fluid washing compounds	27,766	Feb. 11	74	803
Taffin, Erik O., Chicago, Ill. Medicinal food	27,861	Feb. 25	74	1118
Tallewanda Mineral Spring Company, Cincinnati, Ohio. Mineral-spring water	27,851	Feb. 25	74	1117
Tarrant & Company, New York, N. Y. Laxative medicines	29,093	Nov. 3	77	809

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Tarrant & Company, New York, N. Y. Laxative medicines	29,174	Nov. 17	77	1121
Tarrant & Company, New York, N. Y. Laxative medicines	29,306	Dec. 15	77	1778
Taylor & Co., W. A., New York, N. Y. Wines	27,664	Jan. 21	74	374
Taylor & Co., W. A., New York, N. Y. Whisky	27,685	Jan. 21	74	374
Taylor & Co., W. A., New York, N. Y. Jamaica rum	27,747	Feb. 4	74	651
Taylor & Co., W. A., New York, N. Y. Whisky	27,748	Feb. 4	74	651
Taylor, George H., Chicago, Ill. Writing-paper	29,326	Dec. 22	77	1934
Taylor, Joseph, Sheffield, England. Saws, steel, files, shears, and edge-tools	28,003	Mar. 24	74	1727
Teats & Kettenbach, Indianapolis, Ind. Blacking or dressing for boots and shoes	28,080	Apr. 7	75	179
Tedcastle & Co., A. W., Rome, Ga. Boots and shoes	27,634	Jan. 14	74	266
Ten Eyck, Eugene M., Toledo, Ohio. Pomade, face-cream, and restoratives, dressings, and dye for the hair	28,116	Apr. 7	75	162
Testurine Company, Chicago, Ill. Remedies for kidney and similar diseases	29,250	Dec. 8	77	1591
Tete Bros., Philadelphia, Pa. Teas	29,079	Nov. 3	77	807
Thayer & Co., Henry, Cambridge, Mass. Lozenges	28,092	Apr. 7	75	180
Thayer & Co., Henry, Cambridge, Mass. Antiseptic solutions	28,190	Apr. 28	75	671
Thelin, Erick J., Chicago, Ill. Remedy for catarrh	28,388	June 16	75	1849
Therrien, John, Boston, Mass. Remedy for diphtheria	28,840	Sept. 1	76	1414
Thistle Cheese Company, Utica, N. Y. Cheese	29,272	Dec. 8	77	1592
Thomas Evans Company, Pittsburg, Pa. Lamp-chimneys	29,060	Oct. 27	77	630
Thompson, Edgar, New York, N. Y. Preparations for cleaning and renovating carpets and destroying moths	29,069	Nov. 3	77	806
Thompson, Ezra, Nottingham, England. Medicinal preparations	28,912	Sept. 29	76	2005
Thompson & Norris Company, Brooklyn, N. Y. Pasteboard and boxes, cases, wrappers, envelopes, and other articles manufactured therefrom	29,117	Nov. 10	77	968
Thompson, Robert M., Williamsport, Pa. Remedies for diphtheria, sore throat, quinsy, croup, coughs, and catarrh	27,857	Feb. 25	74	1118
Thompson, William T., and J. D. Wilson, Lexington, Ky. Tonic bitters for the stomach	29,266	Dec. 8	77	1592
Thomsen's Sons, John J., Baltimore, Md. Preparation for washing, scouring, and cleansing	29,104	Nov. 3	77	810
Thomson & Taylor Spice Company, Chicago, Ill. Compounds of kola and malt for foods and beverages	29,141	Nov. 10	77	970
Thoroughgood & Co., Janesville, Wis. Cigar-boxes	28,900	Sept. 29	76	2003
Thrall, Elburn C., Hector, Ohio. Scale and sediment removing compounds	27,827	Feb. 18	74	961
Tilden, Emma R., Rockland, Me. Sardines	28,739	Aug. 11	76	958
Tillinghast & Albro, Providence, R. I. Buttons and pins	28,122	Apr. 14	75	342
Timms, Walter B., New York, N. Y. Canned meats, fish, vegetables, fruits, and condensed milk	29,316	Dec. 15	77	1779
Toledo Tobacco Works Company, Toledo, Ohio. Chewing-tobacco	28,808	Aug. 25	76	1270
Toledo Tobacco Works Company, Toledo, Ohio. Chewing-tobacco	28,809	Aug. 25	76	1270
Toledo Tobacco Works Company, Toledo, Ohio. Smoking and chewing tobacco	28,810	Aug. 25	76	1270
Toledo Tobacco Works Company, Toledo, Ohio. Smoking-tobacco	28,811	Aug. 25	76	1270
Tolné & Runge, London, England. Granulated sugar	28,919	Sept. 29	76	2005
Tomkins, George, New York, N. Y. Illuminating-gas	27,622	Jan. 7	74	141
Tompkins, Vreeland, Jersey City, N. J. Certain named chemical compounds	28,022	Mar. 24	74	1729
Tonk Manufacturing Company, Chicago, Ill. Bicycles	29,186	Nov. 17	77	1122
Toppan Manufacturing Company, New York, N. Y. Powder for washing and cleansing	27,968	Mar. 17	74	1585
Topp's Dressing Co., Louisville, Ky. Preparation for whitening stonework	28,835	Sept. 1	76	1414
Tower Manufacturing and Novelty Company, New York, N. Y. Pens	28,071	Apr. 7	75	178
Towsley Yeast Company, Lafayette, Ind. Dry hop yeast cakes	28,127	Apr. 14	75	343
Train & Co., Thomas, Glasgow, Scotland. Whisky	27,693	Jan. 28	74	491
Train & Co., Thomas, Glasgow, Scotland. Whisky	28,039	Mar. 31	74	1894
Trey, Emile de, Lausanne, Switzerland. Crystal mat gold-foils	28,540	July 7	76	158
Tri-Cure Co., Chicago, Ill. Domestic or infantile panaceas	27,705	Jan. 28	74	492
Triolo, Charles, Chicago, Ill. Lemons	29,165	Nov. 17	77	1120
Tschinkel Söhne, August, Prague, Austria-Hungary. Coffee substitute	28,270	May 19	75	1198
Tube City Chemical Co., McKeesport, Pa. Insecticides	28,165	Apr. 21	75	505
Tube City Chemical Co., McKeesport, Pa. Wood-polish	28,166	Apr. 21	75	505
Tuchelt, Alfred A. (See Tuchelt, Frederick W. and A. A.)				
Tuchelt, Frederick W. and A. A., St. Paul, Minn. Cigars	28,694	July 28	76	607
Twitchell-Champlin Company, Portland, Me. and Boston, Mass. Hermetically-sealed canned goods	28,163	Apr. 21	75	505
Tyler Hinged Last Co., Worcester, Mass. Hinges	27,684	Jan. 21	74	376
Uhlund John A., Denver, Colo. Preparation for sore throat, hoarseness, coughs, colds, and earache	29,092	Nov. 3	77	808
Ulmer Reissstärke-Fabrik Heinrich Mack, Ulm and Illertissen, Germany. Starch and starch preparations	28,192	Apr. 28	75	671
Ulmer Reissstärke-Fabrik Heinrich Mack, Ulm and Illertissen, Germany. Starch, starch and borax preparations, soap, soap powders, and blue	28,193	Apr. 28	75	671
Ulrich, Charles J., Havana, Cuba. Certain named remedies	28,387	June 16	75	1849
Underndorfer, Sarah, New York, N. Y. Cigars, cigarettes, and smoking and chewing tobacco	28,904	Sept. 29	76	2002
Union Bag and Paper Company, Chicago, Ill., and Sandy Hill, N. Y. Paper bags	27,931	Mar. 10	74	1438
Union Soap Co., Baltimore, Md. Laundry and toilet soap	29,180	Nov. 17	77	1122
Union Metallic Cartridge Company, Bridgeport, Conn. Paper shot-shells	27,902	Mar. 3	74	1274
Union Metallic Cartridge Company, Bridgeport, Conn. Paper shot-shells	27,903	Mar. 3	74	1274
United Alkali Company, Limited, Liverpool, England. Bleaching-powders, carbonate of soda, and crystal and sulfate of soda	28,769	Aug. 18	76	1111
United States Graphite Company, Saginaw, Mich. Graphite and its products	29,138	Nov. 10	77	970
United States Universal Filter Co., Key West, Fla. Filters	28,883	Sept. 15	76	1710
Universal Baking Powder Co., Harrisburg, Pa. Baking-powder	27,648	Jan. 14	74	267
Upmann, Carl, New York, N. Y. Cigars	28,589	July 14	76	331
Urban, Frederick L., Pittsburg, Pa. Cosmetics	28,435	June 23	75	2004
Urban, Joseph P., Allegheny, Pa. Salve	29,176	Nov. 17	77	1121
Vacuum Oil Company, Rochester, N. Y. Oils and lubricants of all kinds	28,936	Oct. 6	77	149
Vacuum Oil Company, Rochester, N. Y. Oils and lubricants of all kinds	28,937	Oct. 6	77	149
Vallens & Co., Eugene, Chicago, Ill., and New York, N. Y. Cigars	28,394	June 16	75	1850
Van Allen, Herman, Ionia, Mich. Remedy for diseases of the blood, liver, stomach, and kidneys	28,357	June 9	75	1701
Vanhan-Jones, Edward, London, England. Gin and other spirits	28,930	Oct. 6	77	148
Venning, Ralph J., Cleveland, Ohio. Refined illuminating-oil	29,179	Nov. 17	77	1122
Vergnole, John M., New Orleans, La. Claret wine	28,034	Mar. 31	74	1894
Verona Tool Works, Pittsburg, Pa. Railway-track, blacksmiths', stone-masons', mining, iron-workers', and wood-workers' tools	28,858	Sept. 1	76	1416
Vickers, Firm of George, London, England. Stationery	27,866	Mar. 3	74	1273
Victoria Date Company, Limited, London, England. Dates and preparations and extracts of dates, including vinegar made therefrom	29,080	Nov. 3	77	807
Vogel & Son, Jacob, Cincinnati, Ohio. Sugar-cured meats	28,032	Mar. 31	74	1893
Voigt Brewery Company, Limited, Detroit, Mich. Malt extract	28,131	Apr. 14	75	343
Voigt Brewery Company, Limited, Detroit, Mich. Malt, brewed, or fermented liquors	28,685	July 28	76	606

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W. H. Wilmarth & Company, Attleborough, Mass. Lever cuff-buttons.....	27,823	Feb. 18	74	961
W. T. Hanson Company, Schenectady, N. Y. Pills.....	27,706	Jan. 28	74	493
Wadsworth, Howland & Company, Incorporated, Boston, Mass. Shellac.....	29,018	Oct. 20	77	449
Waferling, John, Newark, N. J. Condensed milk.....	28,816	Aug. 25	76	1271
Walker, W. & F., Liverpool, England. Liquid and other soaps.....	29,092	Oct. 20	77	450
Walkerville Brewing Company, Limited, Walkerville, Canada. Wines, brandy, gin, whisky, cordial, ginger-ale, soda, beer, stout, and ale.....	28,477	June 30	75	2189
Walkerville Brewing Company, Limited, Walkerville, Canada. Wines, brandy, gin, whisky, cordials, ginger-ale, soda, beer, stout, and ale.....	28,569	July 7	76	161
Wall, Thomas B., Newark, N. J. Roof-paint.....	29,068	Nov. 3	77	806
Wallace's Sons, J., Newmantown, Pa. Plows.....	27,607	Jan. 7	74	140
Wallace, William J. (See Goldmark and Wallace.)				
Walmsley, Robert W., New Orleans, La. Compounds for exterminating insects, vermin, and the like.....	28,918	Sept. 29	76	2005
Waltke & Co., William, St. Louis, Mo. Soap.....	29,392	Dec. 29	77	2135
Waltman, Thomas S., Philadelphia, Pa. Liniments.....	27,740	Feb. 4	74	650
Wamsutta Mills, New Bedford, Mass. Shirtings and sheetings.....	28,583	July 14	76	330
Wanamaker, John, Philadelphia, Pa. Ladies' and gentlemen's bicycles.....	28,152	Apr. 14	75	346
Warden & Oxnard, Pittsburg, Pa. Illuminating-oils.....	28,767	Aug. 18	76	1111
Ware, Anna L., Camden, N. J. Suspensories.....	27,636	Jan. 14	74	266
Ware, Walter F., Philadelphia, Pa. Certain named druggists' rubber sundries.....	28,077	Apr. 7	75	178
Warfield, Solomon D., Baltimore, Md. Bicycles, tricycles, and other light vehicles of similar character, and their accessories.....	27,658	Jan. 14	74	268
Warfield, Solomon D., Baltimore, Md. Bicycles, tricycles, and other light vehicles of similar character, and their accessories.....	27,659	Jan. 14	74	268
Warfield, Solomon D., Baltimore, Md. Bicycles and tricycles.....	27,757	Feb. 4	74	652
Warfield, Solomon D., Baltimore, Md. Bicycles, tricycles, and other similar light vehicles and their accessories.....	27,949	Mar. 10	74	1440
Warner Brothers Company, New York, N. Y., Chicago, Ill., and Bridgeport, Conn. Corsets and similar underwear.....	28,978	Oct. 13	77	309
Warner, William R., Philadelphia, Pa. Remedy for indigestion, dyspepsia, and allied ailments.....	27,782	Feb. 11	74	805
Warner, William R., Philadelphia, Pa. Remedy for dyspepsia, indigestion, and allied ailments.....	27,783	Feb. 11	74	805
Warner, William R., Philadelphia, Pa. Remedy for dyspepsia, indigestion, and allied ailments.....	27,784	Feb. 11	74	805
Warner, William R., Philadelphia, Pa. Tonic, stimulant, and remedy for nervousness.....	29,046	Oct. 27	77	628
Warren Chemical and Manufacturing Company, New York, N. Y. Roofing-felt.....	28,955	Oct. 6	77	150
Warren, Frank M., Portland, Oreg. Canned fish, including salmon.....	28,197	Apr. 28	75	672
Warwick, George T., Newark, N. J. Component parts of bicycles.....	27,977	Mar. 17	74	1586
Washburn-Crosby Company, Minneapolis, Minn. Wheat-flour.....	28,450	June 23	75	2005
Washburn-Crosby Company, Minneapolis, Minn. Wheat-flour.....	28,479	June 30	75	2189
Washburn, George J., Davenport, Iowa. Coffee.....	27,596	Jan. 7	74	139
Wassall Fire Clay Company, Columbus, Ohio. Street-paving brick.....	28,249	May 12	75	992
Waterloo Yeast Company, Detroit, Mich. Yeast cake.....	27,956	Mar. 17	74	1584
Weber, Aaron M., Oshkosh, Wis. Skirt facings and bindings.....	28,524	July 7	76	157
Weber's Medical Tea Co., Brooklyn, N. Y. Herb teas.....	29,011	Oct. 20	77	449
Weger Bros., Philadelphia, Pa. Lager-beer.....	28,267	May 19	75	1197
Weingard, William, Toledo, Ohio. Veterinary liniment.....	28,942	Oct. 6	77	149
Weingarten Bros., New York, N. Y. Corsets.....	29,123	Nov. 10	77	968
Weingarten Bros., New York, N. Y. Corsets.....	29,124	Nov. 10	77	969
Weingarten Bros., New York, N. Y. Corsets.....	29,125	Nov. 10	77	969
Weiller & Sons, New York, N. Y. Bias velvetreen skirt-binding.....	28,618	July 21	76	470
Weiskittel & Son, A., Baltimore, Md., and New York, N. Y. Gas, gasoline, oil, coal, electric, and wood-burning stoves and ranges.....	28,255	May 12	75	992
Weiss & Co., Apotheker, Giessen, Germany. Perfumes, soap, and creams.....	29,010	Oct. 13	77	312
Wellman & Dwire Tobacco Company, Quincy, Ill. Smoking-tobacco.....	28,474	June 30	75	2188
Wellman & Dwire Tobacco Company, Quincy, Ill. Smoking-tobacco.....	28,475	June 30	75	2188
Wellman & Minsel, Defiance, Ohio. Medicated chewing-gum.....	29,169	Nov. 17	77	1121
Welsbach Light Company, Gloucester City, N. J., and Philadelphia, Pa. Gas-light appliances.....	28,455	June 23	75	2006
Wendler, Gebrüder, Reutlingen, Germany. Size for finishing and dressing yarns and fabrics.....	28,647	July 21	76	472
Wenham's Sons, A. J., Cleveland, Ohio. Tomato mustard.....	29,086	Nov. 3	77	808
Wertheimer & Co., New York, N. Y. Gloves.....	27,934	Mar. 10	74	1438
West, George, Ballston Spa, N. Y. Paper bags.....	28,530	July 7	76	157
Westaver, John E., St. Louis, Mo. Remedies for women's diseases.....	27,805	Feb. 18	74	959
Western New York Preserving and Manufacturing Company, Springville and North Collins, N. Y. Canned hulled corn.....	27,742	Feb. 4	74	650
Western New York Preserving and Manufacturing Company, Springville and North Collins, N. Y. Canned hulled corn.....	28,561	July 7	76	160
White Bros. & Co., Boston and Lowell, Mass. Leather.....	28,205	May 5	75	829
White Bros. & Co., Boston and Lowell, Mass. Leather boots and shoes.....	28,409	June 16	75	1851
White Bros. & Co., Boston and Lowell, Mass. Leather boots and shoes.....	28,410	June 16	75	1851
White, George R., Boston, Mass. Certain named medicaments.....	27,704	Jan. 28	74	492
Whitehall Chemical Company, Jersey City, N. J., and New York, N. Y. Remedy for consumption, malaria, and germinal diseases.....	28,218	May 5	75	830
Whiting Paper Company, Holyoke, Mass., and New York, N. Y. Writing and note paper and paper used for other and similar purposes.....	28,260	May 19	75	1197
Whiting Paper Company, Holyoke, Mass., and New York, N. Y. Note, writing, and other papers.....	28,383	June 16	75	1848
Whitman & Barnes Manufacturing Company, Akron, Ohio. Cultivators, harrows, shovels, spades, hatchets, hammers, twist-drills, wrenches, and kindred articles.....	28,728	Aug. 4	76	784
Whitman & Barnes Manufacturing Company, Akron, Ohio. Cultivators, shovels, thresher-teeth, mower knives and sections, axes, hatchets, hammers, twist-drills, wrenches, and kindred articles.....	28,729	Aug. 4	76	784
Whitney, George W., Boston, Mass. Cigars.....	27,595	Jan. 7	74	138
Whitney, George W., Boston, Mass. Cigars.....	27,690	Jan. 28	74	491
Whittington, Benjamin F., St. Louis, Mo. Medicinal tonic or beverage.....	28,191	Apr. 28	75	671
Wiebusch & Hilger, Limited, New York, N. Y. Firearms and ammunition.....	27,755	Feb. 4	74	651
Wiegand, Charles F. W., St. Louis, Mo. Tonics.....	28,637	July 21	76	471
Wiesenfeld Co., Little Joe, Baltimore, Md. Preparation to repair ruptures or punctures in pneumatic tires.....	28,648	July 21	76	472
Wilburn, Tarry C. (See Jennings and Wilburn.)				
Wilcox & White Organ Company, Meriden, Conn. Automatic pianos, organs, and parts thereof.....	28,322	June 2	75	1543
Wildner & Co., Chicago, Ill. Leather made from hides or skins.....	28,028	Mar. 31	74	1893
Wilkinson, Charles A. (See Crandal, Eastwood, Niles, and Wilkinson.)				
Wilkinson, Harris C., Chicago, Ill. Blood-purifiers in pills and liquids.....	27,607	Feb. 18	74	959
Willard, John W., Boston, Mass. Antirattlers for thill-couplings.....	29,241	Dec. 1	77	1425
Willard, John W., Boston, Mass. Antirattlers for thill-couplings.....	29,242	Dec. 1	77	1425
Willcox, Edwin B., Westport, Conn. Bicycles and tricycles.....	29,154	Nov. 10	77	972

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Vol.	Page.
William Dorsch & Sons Shoe Manufacturing Company, Newark, N. J. Boots and shoes.....	28,153	Apr. 21	75	504
William Edge & Sons, Limited, Bolton, England. Preparations for bleaching, sizing, and finishing textile fabrics.....	27,669	Jan. 21	74	375
William Hollins & Company, (Nottingham,) Limited, Nottingham, England. Unshrinkable flannels.....	27,847	Feb. 25	74	1117
Williams, Adam C., Ravenna, Ohio. Raisin-seeding machines.....	28,573	July 7	76	162
Williams & Brenckle, Milwaukee, Wis. Cigars.....	28,623	July 21	76	470
Williams, Horace D., Poplar Bluff, Mo. Antiseptic medicines.....	28,821	Aug. 25	76	1271
Williamson & Co., D. D., New York, N. Y. Flavor for porter.....	28,631	July 21	76	471
Wilson & Co., Archdale, Hamilton, Canada. Cement for mending punctures in pneumatic tires.....	29,287	Dec. 8	77	1594
Wilson, James D. (See Thompson and Wilson.)				
Wilson, James D., Lexington, Ky. Tablets for the cure of headache, neuralgia, and colds in the head.....	28,820	Aug. 25	76	1271
Winchester Repeating Arms Company, New Haven, Conn. Shells for use in shotguns.....	28,463	June 23	75	2006
Winchester Repeating Arms Company, New Haven, Conn. Shotguns.....	29,156	Nov. 10	77	972
Winkelmann & Brown Drug Company, Baltimore, Md. Aperient and cathartic syrup and elixir.....	28,090	Apr. 7	75	180
Wise, John J., Cleveland, Ohio. Petroleum jelly used as a salve.....	28,279	May 19	75	1198
Wm. H. Burns Company, Worcester, Mass. Boys' or girls' waists and hose-supporters.....	28,201	May 5	75	829
Wm. Hengerer Company, Buffalo, N. Y. Bicycles.....	28,671	July 28	76	605
Wm. Hengerer Company, Buffalo, N. Y. Bicycles.....	28,758	Aug. 11	76	960
Wm. J. Lemp Brewing Company, St. Louis, Mo. Beer and ale.....	28,177	Apr. 21	75	506
Wolfe, McMillan & Co., Philadelphia, Pa. Formosa tea.....	29,199	Nov. 24	77	1268
Wolkind, Henry, Pittsburg, Pa. Cigarettes.....	29,364	Dec. 29	77	2132
Wood Brothers, Detroit, Mich. Perfumery, extracts, powders, lotions, cosmetics, hair restoratives, and soap.....	27,854	Feb. 25	74	1118
Wood, Walter, Philadelphia, Pa. Castings of metal.....	28,324	June 2	75	1543
Woodruff, Caroline P. B., Auburn, N. Y. Buttons, dominoes, counters, hair-brush frames, and mirror-frames made from a secret composition material.....	28,264	May 19	75	1197
Woods Manufacturing Company, Chicago, Ill. Metal-polish.....	27,826	Feb. 18	74	961
Woodward, Orator F., Le Roy, N. Y. Substitutes for coffee made of grain.....	28,714	Aug. 4	76	783
Woodward, Roland E., Chicago, Ill. Medical vaporizers.....	27,600	Jan. 7	74	139
Wray, Frank H., Rockford, Ill. Remedy for ruptures.....	28,347	June 2	75	1546
Wright, Firm of Alfred, Rochester, N. Y. Perfumery.....	29,074	Nov. 3	77	807
Wright & Moody, Boston, Mass. Confectionery.....	27,694	Jan. 28	74	491
Wright & Moody, Boston, Mass. Lozenges.....	27,810	Feb. 18	74	960
Wyeth & Bro., John, Philadelphia, Pa. Acid-phosphate beverages.....	28,342	June 2	75	1545
Wyoming Shovel Works, Wyoming, Pa. Shovels and similar implements.....	28,757	Aug. 11	76	960
Yaekel, Louis J., Baltimore, Md. Headache-powders.....	28,389	June 16	75	1849
Yost, Charles J., Philadelphia, Pa. Glass bottles and flasks.....	28,853	Sept. 1	76	1415
Young, Frederick W., New Orleans, La. Baking and yeast powders.....	29,162	Nov. 17	77	1120
Ypsilanti Drug Co., Ypsilanti, Mich. Laxative preparation.....	28,135	Apr. 14	75	344
Zunz, Charles, New York, N. Y. Imported cement.....	28,363	June 9	75	1702
Zunz, Charles, New York, N. Y. Imported cement.....	28,364	June 9	75	1702
Zunz, Charles, New York, N. Y. Imported cement.....	28,723	Aug. 4	76	784
Zurbrugg, Theophilus, Riverside, N. J. Watchcases.....	28,259	May 10	75	1197

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Volume.	Page.
Chapman & Smith Company, Chicago, Ill. "Chicago Yeast Powder".....	6,546	June 9	75	1554

PRINTS.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Volume.	Page.
American Lithographic Company, New York, N. Y. "Ivy Crown." (For Cigars and Tobacco) ...	39	Dec. 29	77	1944
American Lithographic Company, New York, N. Y. "Arabesque." (For Cigars and Tobacco)....	40	Dec. 29	77	1944
Bailor & Co., George, Charleston, Ill. "Monarch Soap"	10	Feb. 18	74	814
Colman, J. & J., London, England. "Colman's Mustard All Over the World"	26	Sept. 22	76	1718
Colony, Laurence D., and Benjamin S. Osgood, Keene, N. H. "Cando Silver Polish"	21	July 7	76	2
Hazelton Boiler Company, New York, N. Y. "Battery of Hazelton or Porcupine Boilers with Brickwork Settings and Furnaces Inclosed by Metal Casings or Jackets and Having Square Grate-Surfaces"	11	Mar. 17	74	1448
Hazelton Boiler Company, New York, N. Y. "Battery of Hazelton or Porcupine Boilers with Metal Casings or Jackets Lined with Refractory Material and Having Square Grate-Surfaces"	12	Mar. 17	74	1448
Hazelton Boiler Company, New York, N. Y. "The Hazelton or Porcupine Boiler, with Metal Casing or Jacket Lined with Refractory Material, and Having Square Grate Surface"	13	Apr. 28	75	514
Hazelton Boiler Company, New York, N. Y. "The Hazelton or Porcupine Boiler, with Brickwork Setting, and Furnace Enclosed by Metal Casing or Jacket, and Having Square Grate Surface"	14	Apr. 28	75	514
Hazelton Boiler Company, New York, N. Y. "The Hazelton or Porcupine Boiler, with Brickwork Setting, and Furnace Enclosed by Metal Casing or Jacket, and Having Circular Grate Surface"	15	Apr. 28	75	514
Hazelton Boiler Company, New York, N. Y. "The Hazelton or Porcupine Boiler, Sectional View"	16	Apr. 28	75	514
J. Ottmann Lithographing Company, New York, N. Y. "White skin and red cheeks"	24	Sept. 1	76	1280
L. Candee & Company, New Haven, Conn. "Fairy Boots." (For Boots and Shoes).....	37	Nov. 17	77	980
Myers, Abraham A., Lancaster, Pa. "Harness-Leather"	27	Oct. 27	77	457
New York Consolidated Card Company, New York, N. Y. "The Ace"	17	June 16	75	1716
New York Consolidated Card Company, New York, N. Y. "Keep Your Mouth Shut"	18	June 16	75	1716
New York Consolidated Card Company, New York, N. Y. "The Heart"	19	June 23	75	1860
New York Consolidated Card Company, New York, N. Y. "The Diamond"	20	June 30	75	2014
Palmer, Isaac E., Middletown, Conn. "Cut No. R. S."	28	Oct. 27	77	457
Palmer, Isaac E., Middletown, Conn. "Cut No. A. I."	29	Oct. 27	77	457
Palmer, Isaac E., Middletown, Conn. "Cut No. 3 P."	30	Oct. 27	77	457
Palmer, Isaac E., Middletown, Conn. "Cut No. 12 G. V."	31	Oct. 27	77	457
Palmer, Isaac E., Middletown, Conn. "Cut No. 13 P. V."	32	Oct. 27	77	457
Palmer, Isaac E., Middletown, Conn. "Cut No. 567—B. V."	33	Oct. 27	77	457
Palmer, Isaac E., Middletown, Conn. "Cut No. 34—S."	34	Oct. 27	77	457
United States Playing Card Company, New York, N. Y. "New Era"	23	Aug. 11	76	792
United States Playing Card Company, New York, N. Y. "Ye Witches' Fortune Cards"	25	Sept. 22	76	1718
United States Playing Card Company, New York, N. Y. "A Gallery of Celebrities"	35	Nov. 10	77	828
United States Playing Card Company, New York, N. Y. "Circus Playing Cards"	36	Nov. 17	77	980
United States Printing Company, Cincinnati, Ohio. "Caezar." (For Soap)	41	Dec. 29	77	1944
Western New York Preserving and Manufacturing Company, Springville, N. Y. "Hopkins Steamed Hominy (Hulled Corn)"	22	July 21	76	340
Woonsocket Rubber Company, Providence, R. I. "Woonsocket Rubbers." (For Rubbers and Over-shoes)	38	Nov. 17	77	980

DISCLAIMERS.

Name, residence, and invention.	No.	Filed.	Official Gazette.	
			Volume.	Page.
Colwell, Nicholas H., Kenton, Ohio; disclaimer filed by assignee. Combined latch and lock	534,548	July 23, 1896	76	481
Eppler, Andrew, Jr., Quincy, Mass.; disclaimer filed by assignee. Feeding and setting lacing-hooks	555,076	Jan. 11, 1896	74	277
Roberts, Henry, Pittsburg, Pa.; disclaimer filed by assignee. Rod-mill	392,365	June 10, 1896	75	1715
Stevens, John H., Newark, N. J.; disclaimer filed by assignee. Compound of pyroxylin or nitro-cellulose	269,340	Feb. 26, 1896	74	1129
Stevens, John H., Newark, N. J.; disclaimer filed by assignee. Compound of pyroxylin or nitro-cellulose	269,344	Feb. 26, 1896	74	1129
Stonemetz, John H., Erie, Pa.; disclaimer filed by assignee. Web-printing machine	376,053	Dec. 11, 1896	77	1601
Tonder, Cleon, Ithaca, N. Y.; disclaimer filed by patentee. Glass-flattening furnaces and means by which sheets of glass are moved through the leer	303,195	Mar. 17, 1896	74	1595
Van Depoele, Charles J., Lynn, Mass.; disclaimer filed by assignee. Suspended switch and traveling contact for electric railways	424,695	Jan. 28, 1896	74	504

ALPHABETICAL LIST OF INVENTIONS.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Specification.	Drawing.	Volume.	Page.
Abdominal supporter	S. M. Woolfolk and N. U. Ney	572,465	Dec. 1	665	157	77	1405
Abrading and fitting work. Machine for	L. Wenchel	557,462	Mar. 31	3524	843	74	1860
Abrading articles. Composition of matter for	E. G. Acheson	572,852	Dec. 8	1339		77	1553
Abrading-machine	A. R. Pritchard and J. M. Sellmayer	560,862	May 26	2804	643	75	1285
Abrading-machine	A. R. Pritchard and J. M. Sellmayer	570,184	Oct. 27	2578	612		527
Accordion	J. Galleazzi	566,269	Aug. 18	2367	580	76	1100
Accumulating-brake	P. Otto	559,198	Apr. 28	2999	724	75	616
Accumulator or secondary battery	F. W. Ellermann	572,198	Dec. 1	178	725		1312
Acetophenonphenetidin. Making	F. Valentiner	558,863	Apr. 21	2360		75	477
Acetylene-generator and bicycle-lamp	H. B. Clarke	566,660	Aug. 25	3053	746	76	1246
Acetylene. Method of and apparatus for generating	W. C. Clarke	556,736	Mar. 24	2244	525	74	1599
Acid. Amidoalkylsalicylic	G. A. Welter	563,993	July 14	1328		76	262
Acid and making same. Dinitroanthrachrysone-disulfonic	H. Laubmann	569,419	Oct. 13	1211		77	246
Acid and making same. Paraethoxyphenylsuccinamic	A. Piutti	569,425	Oct. 13	1219		77	247
Acid and making same. Paraphenetidin succinic	B. R. Seifert	563,076	June 30	3570		75	2126
Acid and making same. Pyrocatechin mono-acetic	W. Majert	557,410	Mar. 31	3446		74	1846
Acid and obtaining it. Citricphenetidin	B. R. Seifert	555,711	Mar. 3	384		74	1198
Acid K. Amidonaphtholdisulfo	F. Krecke and I. Rosenberg	563,382	July 7	250		76	51
Acid. Obtaining tetra-alkyl uric	E. Fischer	571,352	Nov. 17	1653		77	990
Adding and printing machine. Combined	G. W. Dudley	554,993	Feb. 18	2104	501	74	931
Adding and printing machine. Combined	G. W. Dudley	555,039	Feb. 18	2193	502		945
Adding and recording machine	L. S. Burridge and N. R. Marshman	553,331	Jan. 21	1533	523	74	314
Adding-machine	A. L. Crowson	553,107	Jan. 14	1139	524		228
Adding-machine	G. W. Dudley	555,038	Feb. 18	2188	525	74	944
Adding-machine	F. Wendt	563,435	July 7	340	521		67
Addition. Device for aiding work of	A. L. Huffman	568,907	Oct. 6	323	522	76	62
Addressing-machine	F. D. Belknap	573,849	Dec. 29	3158	523	77	1946
Addressing-machine	J. S. Duncan	558,936	Apr. 28	2498	606	75	519
Addressing machine. Envelop or wrapper	C. A. Belknap	560,018	May 12	1226	607		927
Adhesive composition	H. G. Smiley	556,700	Mar. 17	2173	274	74	1569
Adhesive compound	C. Beadle	569,704	Oct. 20	1750	275		359
Adhesive device. Electromagnetic	A. A. Honey	568,682	Sept. 29	3454		76	1981
Adhesives. Making	P. Murphy	568,265	Sept. 22	2691	826	76	1824
Adhesives to paper. Mechanism for applying	H. E. Smyser	561,141	June 2	110		30	1389
Adjustable handle	G. B. Hussey	558,074	Apr. 14	1024	30	75	209
Adjustable seat	C. H. Stephenson	561,290	June 2	402	249	75	1448
Adjustable seat. Vertically	J. R. Burke	569,809	Oct. 20	1926	100	75	391
Adjustable table	I. F. Brown	559,162	Apr. 28	2934	457	77	602
Advertisement-shifter	B. Nichols	571,882	Nov. 24	2581	708	75	1180
Advertisement-wagon	T. A. Ward, J. R. Turner, and J. W. Kendall	569,982	Oct. 20	2215	611	77	444
Advertising apparatus	T. G. Daly	556,136	Mar. 10	1157	271	74	1364
Advertising apparatus	J. H. Scott	553,569	Jan. 28	1946	272		408
Advertising apparatus. Electrical	C. E. Skinner	562,429	June 23	2391	459	74	1880
Advertising appliance	J. T. Dawes	556,137	Mar. 10	1161	581	75	1364
Advertising cigar-cutter	G. W. Melville	552,645	Jan. 7	238	273	74	46
Advertising-clock	C. Sparenta	562,430	June 23	2393	66	74	1880
Advertising-clock	E. G. Wenzel	558,625	Apr. 21	1954	581	75	402
Advertising device	J. Batzon	552,605	Jan. 7	175	474	75	35
Advertising device	A. C. Doster	553,555	Jan. 28	1917	48	74	403
Advertising device	D. J. Etlv	569,095	Oct. 6	651	453	74	125
Advertising device	J. H. Golding	571,656	Nov. 17	2160	150	77	1082
Advertising device	S. B. Hosmer	566,761	Sept. 1	50	519	77	1289
Advertising device	H. Joski and E. P. G. Hall	557,393	Mar. 31	3411	13	74	1839
Advertising device	J. A. Kennel	572,262	Dec. 1	299	819	77	1336
Advertising device	F. J. Langer	564,704	July 28	2558	71	74	521
Advertising device	M. H. Richardson	553,598	Jan. 28	1997	605	76	417
Advertising device	I. Roescher	559,609	May 5	442	473	75	769
Advertising device	F. A. Ruge	567,514	Sept. 8	1358	104	76	1546
Advertising device	F. S. D. Scott	574,277	Dec. 29	3998	329	77	2096
Advertising device and cigar-cutter. Combined	H. F. Nehr	563,875	July 14	1110	949		223
Advertising device. Automatic-figure	P. T. Kenny	568,854	Oct. 6	243	950	76	47

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Advertising device. Coin	W. Fredricks	560,900	May 26	2876	660	75	1298
Advertising device. Electrical	J. J. McCormack	568,087	Aug. 18	2076	506	76	1044
Advertising device. Revolving	W. A. Rupert and S. J. Frazier	552,700	Jan. 7	351	92	74	68
Advertising device. Stereopticon	E. Hudson	552,663	Jan. 7	282	76, 77	74	55
Advertising device. Street-railway-car	A. C. Morrisson	559,104	Apr. 23	2790	676	75	577
Advertising devices. Actuating mechanism for	M. M. Gillam	554,926	Feb. 13	1986	470	74	909
Advertising electrical phosphorescent letters or signs	D. M. Moore	565,775	Aug. 11	1516	369	76	918
Advertising envelop	C. E. Schwacofer	560,175	May 12	1524	344	75	983
Advertising medium	R. Bayley	561,306	June 2	423	106	75	1452
Advertising or bulletin board	H. E. Lean and N. S. Bray	561,231	June 2	270	67	75	1420
Advertising or other apparatus. Flexible carrier for	A. C. Allyn	553,770	Jan. 28	2256	541	74	471
Advertising purposes. Mechanism for	A. M. Marsden	553,415	Jan. 21	1673	399	74	341
Advertising purposes. Stereoscope for	R. Harilaos	558,684	Apr. 21	2065	500	75	421
Advertising vehicle	P. Sagne	566,539	Aug. 25	2890	704	76	1214
Aerated liquids with sirups during bottling. Apparatus for supplying	F. S. Waldo	560,826	May 26	2725	625	75	1271
Aerated water fountains. Extra-charging device for	I. W. Heysinger	562,823	June 30	3091	749	75	2029
Aerial dancing. Apparatus for	W. B. B. Neale	567,352	Sept. 8	1114	268	76	1500
Aerator. Milk	F. C. Stephenson	553,437	Jan. 21	1707	407	74	347
Aerostat	M. V. Coutinho	556,621	Mar. 17	2081	482	74	1547
Aging beer, wine, &c. Process of and apparatus for	F. O. Wiedring	564,130	July 14	1575	370	76	310
Aging-machine	E. A. Rusden	565,927	Aug. 18	1796	438	76	989
Agitating apparatus	C. S. Wheelwright	555,061	Feb. 18	2243	536	74	954
Agricultural boiler	F. C. and W. J. Zumdahl	571,634	Nov. 17	2130	512	77	1076
Agricultural hand-tool	W. D. Huntington	571,371	Nov. 17	1681	398	77	994
Agricultural implement	C. P. Leshner	564,432	July 21	2101	491	76	417
Agricultural-implement handle	W. C. Frick	565,887	Aug. 18	1714	420	76	972
Agricultural machine	M. K. Sargeant	560,112	May 12	1416	318	75	964
Agricultural-machine draft attachment	A. N. Cross	565,135	Aug. 4	343	81	76	681
Agricultural machine. Electrically-operated	I. Hogeland	557,809	Apr. 7	513	124	75	97
Air and gas mixer and hydrocarbon-furnace	V. W. Blanchard	569,984	Oct. 20	2218	527	77	444
Air and gas mixing machine	B. S. Dunn	553,517	Jan. 28	1848	438	74	390
Air-brake	J. S. Custer	553,481	Jan. 21	1779	424	74	361
Air-brake	J. S. Custer	553,482	Jan. 21	1781	424	74	361
Air-brake	D. Dunn	567,024	Sept. 1	512	121	76	1379
Air-brake	F. L. Guillemet	571,115	Nov. 10	1260	292	77	900
Air-brake	F. L. Guillemet	571,116	Nov. 10	1262	293	77	901
Air-brake	H. L. Howe	567,476	Sept. 8	1308	316	76	1536
Air-brake	G. S. Lee	557,511	Mar. 31	3624	869	74	1879
Air-brake	G. S. Lee	557,512	Mar. 31	3625	869	74	1879
Air-brake	G. S. Lee	557,513	Mar. 31	3627	869	74	1879
Air-brake	G. S. Lee	557,514	Mar. 31	3629	870	74	1880
Air-brake	G. S. Lee	557,515	Mar. 31	3630	870	74	1880
Air-brake	T. Lindsey	561,596	June 9	960	229	75	1577
Air-brake	W. Mable	572,553	Dec. 8	508	194	77	1448
Air-brake	H. F. Noyes	553,585	Jan. 28	1940	458	74	407
Air-brake	H. F. Noyes	564,389	July 21	2026	476	76	404
Air-brake	H. F. Noyes	571,095	Nov. 10	1216	284	77	893
Air-brake	H. F. Noyes	571,786	Nov. 24	2408	574	77	1149
Air-brake	W. K. Omick	563,612	July 7	637	148	76	120
Air-brake	H. S. Park	561,811	June 9	1342	321	75	1648
Air-brake	J. E. Reyburn	568,923	Oct. 5	347	80	77	67
Air-brake	T. Walker and R. R. Cook	569,258	Oct. 13	935	224	77	194
Air-brake	H. H. Westinghouse	557,464	Mar. 31	3331	844	74	1862
Air-brake	A. M. Willets	561,301	June 2	418	103	75	1451
Air-brake apparatus	R. E. Marshall	560,730	May 26	2558	588	75	1238
Air-brake coupling	J. E. Fernley and W. F. Charleson	553,498	Jan. 21	1813	431	74	367
Air-brake coupling	W. A. and B. S. H. Harris	571,662	Nov. 17	2170	522	77	1083
Air-brake for railway-trains. Automatic	W. H. Hall	574,062	Dec. 29	3562	850	77	2018
Air-brake hose-coupling	J. M. Herder	558,174	Apr. 14	1180	287	75	241
Air-brake hose-couplings. Dust-guard for	W. Y. Thompson	571,708	Nov. 17	2254	541	77	1099
Air-brake hose-couplings. Strainer for	G. H. Herbert	572,009	Nov. 24	2203	661	77	1222
Air-brake mechanism	L. J. Genett	556,815	Mar. 24	2393	562	74	1626
Air-brake mechanism	H. C. Zenke	571,736	Nov. 17	2318	553	77	1112
Air-brake mechanism. Street-car	G. A. Glass	569,915	Oct. 20	2098	499	77	423
Air-brake pumps. Indicator for	T. J. Rogers and J. F. Warren	553,294	Jan. 21	1475	354	74	304
Air-brake. Railway-car	H. S. Graebing	569,823	Oct. 20	1949	463	77	395
Air-brake retainer. Automatic	C. W. Junl	570,483	Nov. 3	81	19, 20	77	653
Air-brake signal	J. P. High	555,809	Mar. 3	532	129	74	1227
Air-brake. Street-car	D. Beemer	564,863	July 28	2837	678	76	570
Air-brake system	J. H. Brookmire, Jr.	558,670	Apr. 21	2039	491	75	416
Air-chamber	J. F. Reed	571,243	Nov. 10	1470	344	77	940
Air compressing and storing apparatus	E. C. Nichols	555,178	Feb. 25	2446	580	74	1011
Air-compressing apparatus	E. Chaquette	565,429	Aug. 11	864	204	76	796
Air-compressing apparatus	M. E. Clark	558,041	Apr. 14	961	235	75	198
Air-compressing apparatus. Hydraulic	G. E. Waring, Jr.	562,052	June 16	1758	425	75	1747
Air-compressor	W. E. Elliott	568,433	Sept. 29	2974	715	76	1892
Air-compressor	J. C. Githens	563,477	July 7	410	96	76	79
Air-compressor	E. Hill	571,971	Nov. 24	2738	647	77	1211
Air-compressor	F. W. Merritt	562,475	June 23	2468	599	75	1894
Air-compressor	L. W. Noyes	563,794	July 14	950	226	76	195

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Air-compressor	J. H. Pendleton	561,126	June 2	84	23	75	1383
Air-compressor	J. H. Reynolds	572,372	Dec. 1	509	120	77	1375
Air-compressor	T. H. Roberts	572,314	Dec. 1	407	97	77	1356
Air-compressor	H. C. Sergeant	568,804	Oct. 6	156	37	77	32
Air-compressor	L. M. Shaw	552,590	Jan. 7	149	41	74	29
Air-compressor	H. G. Williams	556,119	Mar. 10	1127	267	74	1357
Air-compressor and blower	O. L. Smith	572,383	Dec. 1	543	128	77	1381
Air-compressor. Hydraulic	J. H. Champ	570,540	Nov. 3	190	51	77	673
Air-compressor. Hydraulic	A. Faber du Faur	561,160	June 2	150	39	75	1395
Air-compressor. Hydraulic	F. C. Guyser	560,987	May 26	3004	692	75	1322
Air-compressor. Hydraulic	J. Liming	569,929	Oct. 20	2120	504	77	427
Air-compressor. Mercury	C. J. Underwood	558,125	Apr. 14	1102	269	75	226
Air-compressors. Inlet-valve for	H. V. Conrad	569,323	Oct. 13	1052	249	77	217
Air-compressors. Inlet-valve for	R. F. Grigsby	567,092	Sept. 1	636	147	76	1403
Air-cooling apparatus	F. W. Dold	556,811	Mar. 24	2385	560	74	1624
Air-current regulator	J. C. Randall	557,428	Mar. 31	3478	834	74	1852
Air-cushioning apparatus	R. Miehle	559,589	May 5	404	97	75	762
Air-distributing apparatus	J. L. West	571,500	Nov. 17	1904	454	77	1035
Air-drying apparatus	W. M. Mackey	562,632	June 23	2741	665	75	1945
Air-drying apparatus	K. F. Toellner	562,938	June 30	3302	796	75	2072
Air-drying device	A. M. Purves	556,692	Mar. 17	2164	505	74	1567
Air-drying device	A. M. Purves	558,840	Apr. 21	2318	564	75	469
Air-duct	R. Pattison	565,499	Aug. 11	1032	248	76	827
Air-forcing apparatus. Operating mechanism for	F. J. Mitchell	573,026	Dec. 15	1644	395	77	1631
Air goods	A. A. Young	573,122	Dec. 15	1818	438	77	1663
Air-heater	H. G. Dohrman	553,750	Jan. 28	2257	534	74	465
Air-heater. Ventilating	C. V. Roberts	574,271	Dec. 29	3987	947	77	2094
Air-lock for caissons, &c.	R. S. Gillespie	573,405	Dec. 15	2325	555	77	1755
Air-lock for caissons, &c.	R. S. Gillespie	573,406	Dec. 15	2327	556	77	1756
Air-lock for caissons, &c.	R. S. Gillespie	574,321	Dec. 29	4064	966	77	2101
Air-moistening apparatus	H. Cooper	565,604	Aug. 11	1206	290	76	859
Air-motor	W. H. Knight	568,354	Sept. 29	2847	685	76	1869
Air-motor	C. J. Underwood	561,033	May 26	3086	712	75	1338
Air. Regulating-damper for controlling incoming currents of	F. W. Graves	571,658	Nov. 17	2163	520	77	1082
Air-ship	C. A. Smith	565,805	Aug. 11	1564	381	76	926
Air-ship	E. J. St. Croix	573,549	Dec. 22	2619	622	77	1827
Air-valve. Automatically opening or closing	F. J. Gubelman	567,093	Sept. 1	637	148	76	1403
Air vessels under pressure. Apparatus for filling	R. H. Thorpe and T. E. Brown, Jr.	569,774	Oct. 20	1871	443	77	381
Alarm:					444		
See Bicycle-alarm.	Leak-alarm.						
Boiler-alarm.	Low-water alarm.						
Boiler-pressure-indicating alarm.	Railway-alarm.						
Burglar-alarm.	Safe-alarm.						
Electric alarm.	Speed-indicating alarm.						
Fire-alarm.	Thermostat-actuated alarm.						
Fire and burglar alarm.	Time-alarm.						
High or low water alarm.	Water-alarm.						
Alarm	R. W. J. Krans	562,731	June 23	2913	707	75	1978
Alarm system. District	M. E. Barrett	555,491	Mar. 3	11	3, 4	74	1132
Alarm system. Electric	C. A. Rolfe	558,564	Apr. 21	1846	449	75	383
Album	F. Reifschneider	554,090	Feb. 4	528	118	74	601
Album-lock	D. Vorpahl and H. Pohl	559,639	May 5	495	114	75	777
Albumen. Obtaining	E. Finkler	567,706	Sept. 15	1695	76	1625	
Alkalies. Manufacturing phosphates of	H. Albert	572,512	Dec. 8	745	178	77	1435
Alkaline salts of metallic acids. Making	T. K. Klimmer	558,818	Apr. 21	2286	75	463	
Alloy or compound and producing same. Metallic	C. M. Hall	570,014	Oct. 27	2272	77	467	
Alloy. Steel	H. Schneider	560,150	May 12	1476	75	975	
Alloys. Making	E. A. Georges (called C. Street)	572,092	Nov. 24	2997	77	1257	
Alloys of iron and chromium. Producing	R. W. Wallace	567,757	Sept. 15	1783	76	1642	
Almond huller and separator. Combined	J. E. Beach	567,372	Sept. 8	1145	275	76	1505
Almond-sheller	A. H. Cope	567,736	Sept. 15	1748	418	76	1635
Alternating generator. Constant-potential	E. W. Rice, Jr.	567,197	Sept. 8	811	193	76	1447
Alternating generator. Constant-potential	C. P. Steinmetz	568,464	Sept. 29	3027	727	76	1902
Alternating motor	N. Tesla	555,190	Feb. 25	2467	584	74	1015
Alternating systems. Safety device for	E. J. Berg	558,031	Apr. 14	941	232	75	194
Aluminate. Making	D. A. Péniaffoff	572,026	Nov. 24	2827	77	1227	
Aluminium. Producing hydrous chlorid of	F. A. Gooch	558,725	Apr. 21	2127	513	75	433
Aluminium. Producing hydrous chlorid of	F. A. Gooch	558,726	Apr. 21	2129	513	75	434
Aluminium. Reducing	H. F. D. Schwahn	562,785	June 23	3004	726	75	1996
Amalgam fillings. Absorbent for	J. W. Dennis	553,451	Jan. 21	1725	411	74	351
Amalgamating apparatus	J. A. Bentley	562,882	June 30	3205	775	75	2051
Amalgamating apparatus	J. W. Hackett	561,952	June 9	1588	384	75	1695
Amalgamating apparatus. Gold-	C. Graff	569,710	Oct. 20	1761	418	77	361
Amalgamator	F. B. Austin	563,119	June 30	3639	872	75	2139
Amalgamator	T. G. Barlow-Massicks	565,152	Aug. 4	377	87	76	688
Amalgamator	E. S. Bennett	563,705	July 7	791	189	76	148
Amalgamator	W. L. and C. Brown	572,353	Dec. 1	471	171	77	1368
Amalgamator	S. Dunn	555,762	Mar. 3	462	110	74	1213
Amalgamator	D. Feit	555,569	Mar. 3	142	34	74	1157
Amalgamator	J. R. Milner	565,628	Aug. 11	1249	301	76	867
Amalgamator	J. A. Riffle	573,163	Dec. 15	1888	454	77	1676
Amalgamator	W. Robinson	558,460	Apr. 14	1679	404	75	334
Amalgamator	A. C. Rumble	559,986	May 12	1170	260	75	919
Amalgamator	J. J. Storer and F. Martin	573,834	Dec. 22	3139	748	77	1926

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				Spec.	Dr. g.	Vol.	Page.
Amalgamator	C. P. Watterson	562,681	June 23	2818	{ 683	75	1960
Amalgamator	S. A. West	553,634	Jan. 28	2053	{ 484		
Amalgamator. Centrifugal	W. H. Peck	560,641	May 19	2404	{ 551	75	1189
Amalgamator for separating and saving gold	T. G. Barlow-Massicks	554,902	Feb. 18	1949	{ 458		
Ammonia from waste sugar lyes. Obtaining	L. Sternberg	557,166	Mar. 31	2992	{ }	74	1764
Ammonia-gas. Device for generating	E. Bretney	560,081	May 12	1350	{ 303	75	951
Ammonia-gas generator	L. H. Bachmann and O. R. Sulzer	573,956	Dec. 29	3359	{ 805	77	1981
Ammonium nitrate. Purifying	G. Craig	573,956	Dec. 29	3385	{ 810	77	1986
Amusement apparatus	D. M. Harman	570,016	Oct. 27	2274	{ 541	77	468
Anchor	F. Baldt	570,420	Oct. 27	3051	{ 722	77	615
Anchor	H. C. Holmes	558,389	Apr. 14	1550	{ 378	75	309
Anchor	H. A. House	567,680	Sept. 15	1651	{ 398	76	1616
Anchor	F. D. Taylor	566,427	Aug. 25	2680	{ 654	76	1176
Anchor-bolt	I. Church	557,361	Mar. 31	3360	{ 807	74	1830
Anchor. Shore	J. J. Ryan	571,624	Nov. 17	2109	{ 506	77	1072
Animal-bit	W. B. Benison	559,319	Apr. 28	3214	{ 776	75	654
Animal-shears	J. K. Priest	571,241	Nov. 10	1467	{ 343	77	939
Animal-trap	M. Burton and H. Eberhardt	554,388	Feb. 11	1045	{ 243	74	714
Animal-trap	A. M. Carlsen	558,038	Apr. 14	953	{ 234	75	196
Animal-trap	S. Cedzo	573,761	Dec. 22	3006	{ 712	77	1902
Animal-trap	T. H. Cottrell	563,748	July 14	867	{ 206	76	178
Animal-trap	T. Crane	566,502	Aug. 25	2832	{ 689	76	1202
Animal-trap	R. C. Flowers	562,815	June 30	3068	{ 742	75	2025
Animal-trap	W. H. Harden	562,803	June 23	2699	{ 653	75	1937
Animal-trap	J. W. Jones	566,912	Sept. 1	301	{ 70	76	1340
Animal-trap	C. Leland	571,773	Nov. 24	2386	{ 570	77	1143
Animal-trap	W. Leonard	556,994	Mar. 24	2689	{ 634	74	1682
Animal-trap	S. M. Neely	560,597	May 19	2274	{ 521	75	1168
Animal-trap	C. L. Parker	563,682	July 7	751	{ 177	76	141
Animal-trap	J. B. Perkins	555,117	Feb. 25	2349	{ 558	74	991
Animal-trap	L. E. Sjelstad	558,317	Apr. 14	1425	{ 350	75	227
Animal-trap	E. C. Waldurff	553,372	Jan. 21	1608	{ 383	74	329
Animal-trap	J. M. Wilkinson	574,294	Dec. 29	4023	{ 955	77	2101
Animal-trap and chicken-coop. Combined	J. M. Harvey	556,266	Mar. 10	1401	{ 329	74	1409
Animal-trap. Self-setting	F. E. Krauth	572,811	Dec. 8	1279	{ 308	77	1540
Annealing-box	D. W. Harrison	560,316	May 19	1793	{ 408	75	1082
Annealing-furnace	W. E. Harris	566,682	Aug. 25	3097	{ 756	76	1253
Annealing metal castings	J. Evetts and F. C. Schurz	570,919	Nov. 10	911	{ 211		
Annealing metals	H. K. Jones	563,380	July 7	249	{ 56	76	50
Annealing-pan	W. Meyer	564,568	July 21	2331	{ 547	76	458
Annealing tin-plate. Plant for	T. R. Morgan, Jr	568,786	Oct. 6	129	{ 30, 31	77	27
Annunciator	C. E. Beach	568,423	Sept. 29	2960	{ 710	76	1890
Annunciator	C. C. Gould	564,746	July 28	2640	{ 628	76	533
Annunciator	F. A. Jennings	571,445	Nov. 17	1800	{ 430	77	1016
Annunciator	F. A. Jennings	572,057	Nov. 24	2890	{ 682	77	1238
Annunciator	J. B. Rogers	564,314	July 21	1895	{ 448	76	380
Annunciator and fire-alarm. Combined	M. Garl	563,269	July 7	63	{ 15, 16	76	13
Annunciator. Automatic temperature	J. A. Young	572,081	Nov. 24	2958	{ 695	77	1251
Annunciator-drop	W. Schwagerman	572,378	Dec. 1	537	{ 127	77	1380
Annunciator. Electric	J. Kips	555,101	Feb. 25	2321	{ 551	74	986
Annunciator. Electric	J. Stamm	570,967	Nov. 10	988	{ 230	77	850
Annunciator. Electrical	R. L. Hunter and H. B. Higgins	574,327	Dec. 29	4073	{ 968	77	2111
Annunciator. Electrical	G. J. King	560,358	May 19	1863	{ 425		
Annunciator. Electrical	F. Porath	555,120	Feb. 25	2355	{ 560	74	993
Annunciator. Street	H. P. Frear	567,643	Sept. 15	1594	{ 383	76	1604
Annunciator system for buildings	J. M. Arthur	563,724	July 14	830	{ 198	76	171
Annunciator time-caller for railway-trains	J. J. Cowhig	568,430	Sept. 29	2969	{ 713	76	1892
Annunciator. Train-time	W. J. Roberts	557,609	Apr. 7	138	{ 36		
Anode for electrolytic processes	H. Y. Castner	572,472	Dec. 1	671	{ }	77	1406
Ant-trap	P. H. Brown	567,076	Sept. 1	607	{ 142	76	1397
Antikicking device	B. J. Moore	556,829	Mar. 24	2416	{ 567	74	1630
Antimony ores. Apparatus for reducing	E. Kratzer	563,234	June 30	3834	{ 919	75	2175
Antipyrin mandelate and making same	O. Hinsberg	569,415	Oct. 13	1208	{ }	77	245
Antiseptic and making same	F. Hartmann	568,678	Sept. 29	3449	{ }	76	1980
Antiseptic salts. Impregnating fabrics with	H. R. Hirschler	564,928	July 28	2952	{ }	76	591
Anti-train-robbery apparatus	J. F. Matthews and H. L. Sherburne	562,008	June 16	1684	{ 409	75	1733
Anvil attachment	C. E. Van Coughnet	563,104	June 30	3614	{ 867		
Apparel. Wrapper or holder for	M. T. Hosmer	554,876	Feb. 18	1904	{ 447	74	893
Apron-clamp and whip-socket. Combined	H. Ebert	563,363	July 7	220	{ 50	76	45
Architectural purposes. Composition for	W. A. Robinson	555,507	Aug. 11	1045	{ }	76	829
Are-lights. Electrical connector for	J. J. McGill	556,362	Mar. 17	1609	{ 376	74	1463
Arithmetical apparatus	E. E. Matsson	555,218	Feb. 25	2516	{ 594	74	1023
Arithmetical apparatus	H. Rödelasperger	560,651	May 26	2429	{ 555	75	1212
Arithmetical card	F. J. Koller	565,797	Aug. 11	1549	{ 377	76	924
Arm-rest for books	A. J. Soto	571,936	Nov. 24	2686	{ 636	77	1201
Armature-coils. Form for winding	J. A. Webber	561,636	June 9	1028	{ 247	75	1589
Armature-core	G. F. Packard	557,869	Apr. 7	611	{ 145	75	115
Armature for dynamo-electric machines	F. J. Haerer and C. L. Gikeleiter	567,746	Sept. 15	1764	{ 423	76	1638
Armature for dynamo-electric machines	F. P. Ide	561,590	June 9	948	{ 226	75	1575
Armature for dynamo-electric machines	H. G. Reist	559,910	May 12	1038	{ 237		
Armature for dynamo-electric machines	D. P. Thomson and A. H. Armstrong	565,647	Aug. 11	1290	{ 312	76	875
Armature for dynamos and motors	G. A. Welles, Jr	555,628	Mar. 3	249	{ 58	74	1175
Armature for electric machines	R. M. Gardner	553,557	Jan. 28	1919	{ 454	74	403
Armature for electric motors and dynamos	J. P. B. Fiske and H. A. Littlefield	559,692	May 5	576	{ 135	75	792
Armature for induction-motors	A. L. Cushman	554,617	Feb. 11	1446	{ 136		

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Armature for induction-motors	A. L. Cushman	555,851	Mar. 3	606	{ 144 145 }	74	1241
Armature for induction-motors	A. L. Cushman	555,899	Mar. 3	705	170	74	1261
Armature-jack	W. A. Drysdale	573,323	Dec. 15	2192	524	77	1731
Armature. Ring	F. B. Badt and O. S. Lyford, Jr	566,288	Aug. 25	2403	590	76	1123
Armature-winding	A. F. Batchelder	558,027	Apr. 14	933	231	75	193
Armature-winding	W. H. Knight	555,216	Feb. 25	2514	593	74	1022
Armature-winding	S. H. Short	565,931	Aug. 18	1807	440	76	992
Armature-winding	S. H. Short	568,414	Sept. 29	2946	708	76	1888
Armatures. Flat winding for	S. H. Short	568,415	Sept. 29	2948	708	76	1888
Armor. Body	R. F. Stevenson	570,067	Oct. 27	2369	563	77	486
Armor-plates. Apparatus for manufacturing	A. Wilson and F. Stubbs	572,590	Dec. 8	884	214	77	1465
Armor-plates. Apparatus to be used in manufacturing	W. Beardmore	567,876	Sept. 15	1982	{ 475 476 }	76	1681
Armor-plates or the like. Apparatus for manufacturing	V. E. L. Demenge	564,053	July 14	1447	337	76	284
Army-accountrement	W. S. Oliver	563,404	July 7	283	64	76	56
Arsenical ores. Treating	D. Sheedy	558,745	Apr. 21	2162	.....	75	440
Articulator and flask and dental process. Combined	K. R. Bragg	565,326	Aug. 4	690	166	76	743
Asbestos fiber. Apparatus for reducing	A. S. Woodward	553,091	Jan. 14	1105	268	74	222
Ash-can	A. Fischer	562,176	June 16	1969	477	75	1786
Ash or garbage can	G. C. Witt	559,833	May 12	881	197	75	862
Ash pan or receptacle	M. M. Koch	564,754	July 28	2660	632	76	538
Ash pan or receptacle	M. M. Koch	564,755	July 28	2662	632	76	538
Ash-pan. Rocking	J. T. McLellan	556,365	Mar. 17	1613	377	74	1464
Asphaltum and making same. Artificial	R. Dean	564,975	Aug. 4	28	.....	76	622
Aspirator	J. Schneible	571,692	Nov. 17	2216	534	77	1092
Assorting and grading machine	J. H. Risley and C. W. Pease	555,973	Mar. 10	844	{ 201 202 }	74	1308
Athlete's supporter	J. J. Pfister	563,408	July 7	290	66	76	58
Atmosphere. Apparatus for mechanically creating and maintaining humid	J. K. Proctor	568,491	Sept. 29	3069	{ 738 739 740 }	76	1910
Atmospheric burner	P. Meyer	560,911	May 26	2894	663	75	1302
Atomizer	J. J. Bailey, Jr	566,282	Aug. 18	2386	585	76	1103
Atomizer	A. Froidevaux	562,763	June 23	2965	718	75	1989
Atomizer	A. W. Krumm	560,507	May 19	2121	485	75	1141
Atomizer	H. R. Mills	560,225	May 19	1627	370	75	1053
Atomizer	C. Ruppolt	553,765	Jan. 28	2280	539	74	470
Atomizer	V. C. Vant Woud	568,058	Sept. 22	2329	563	76	1754
Atomizer-bulb	R. Parker	564,390	July 21	2030	476	76	405
Atomizer. Fluid	J. A. Tilden	570,721	Nov. 3	556	129	77	741
Atomizer. Powder	A. C. Bancroft	553,701	Jan. 28	2171	514	74	449
Atomizer-valve	W. H. Wigmore	554,432	Feb. 11	1134	265	74	731
Auditory device	E. Spaulding	565,872	Aug. 11	1692	414	76	952
Auger	A. Y. Pearl	565,500	Aug. 11	1034	248	76	827
Auger-bit	W. B., Jr., and J. S. Howard	567,271	Sept. 8	949	226	76	1470
Auger. Earth	W. F. Bennett and S. Hill	572,325	Dec. 1	426	{ 100 101 }	77	1360
Auger. Earth	H. A. Brownlee	573,388	Dec. 15	2301	549	77	1751
Auger. Earth	J. W. Kenevel	554,492	Feb. 11	1234	{ 288 289 }	74	749
Auger. Earth	A. H. Meier	570,810	Nov. 3	703	161	77	768
Auger. Earth	H. Pederson	553,660	Jan. 28	2103	497	74	435
Auger. Earth	C. M. Wyant	554,968	Feb. 18	2056	488	74	922
Auger. Hand well	E. N. Wiggins and E. L. Davis	568,467	Sept. 29	3032	728	76	1903
Auger-handle. Ratchet	J. Delaney	560,122	May 12	1429	321	75	967
Auger. Post	A. H. Kite	560,267	May 19	1706	388	75	1068
Autographic register	J. N. Abbott	567,778	Sept. 15	1813	435	76	1647
Autographic register	G. D. Bond	570,535	Nov. 3	177	47, 48	77	670
Autographic register	W. L. Egry	563,849	July 14	1058	{ 249 250 }	76	213
Autographic register	J. B. King and G. W. Carhart	567,785	Sept. 15	1825	438	76	1649
Autographic register	W. M. Kinnard	558,080	Apr. 14	1031	{ 251 252 }	75	211
Autographic register	G. A. Norcross	568,454	Sept. 29	3009	724	76	1899
Autographic register	W. B. Preston	566,620	Aug. 25	2998	732	76	1235
Autographic register	S. Shoup	561,350	June 2	511	{ 128 129 }	75	1468
Autographic register	F. W. Tobey	554,748	Feb. 18	1668	{ 393 394 }	74	849
Autographic register	E. H. Whitlock and U. M. White	565,195	Aug. 4	460	110	76	702
Autoharp	J. S. Back	559,764	May 5	715	{ 169 170 }	75	817
Autoharp	G. B. Durkee	559,124	Apr. 28	2826	684	75	585
Autoharp	W. Eschemann	566,388	Aug. 25	2601	635	76	1159
Autoharp	C. Sucker	557,290	Mar. 31	3235	776	74	1804
Autolithographic press	H. Koch	561,513	June 2	800	195	75	1522
Automatic brake	W. Pendley	573,791	Dec. 22	3051	723	77	1911
Automatic gate	D. K. Wilson	569,269	Oct. 13	950	{ 227 228 }	77	197
Automatic signal	J. P. Coleman	565,839	Aug. 11	1621	397	76	937
Automatic sprinkler	C. E. Buell	570,901	Nov. 10	879	204	77	830
Automatic sprinkler	C. W. Siver	560,373	May 19	1889	431	75	1099
Automatic sprinkler	C. O. Yale	559,346	Apr. 28	3276	791	75	666
Automatic switch	J. F. McElroy	554,080	Feb. 4	507	{ 113 114 }	74	598
Automatic switch	L. A. Osborne	557,339	Mar. 31	3315	{ 796 797 }	74	1820
Automatic switch	G. A. Schmittuz	552,622	Jan. 7	203	56	74	40
Awning	W. Bennett	573,639	Dec. 22	2799	662	77	1864
Awning	J. G. Cost	562,458	June 23	2444	593	75	1880
Awning	C. A. and W. E. Metzger	572,434	Dec. 1	618	147	77	1396
Awning	J. S. Sanders	552,781	Jan. 7	520	127	74	97

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Awning.....	E. K. Thomas.....	566,548	Aug. 25	2902	{ 707 708	{ 76	1216
Awning-bracket.....	O. K. Harry.....	552,997	Jan. 14	939	227	74	190
Awning-bracket.....	J. W. Richards.....	565,924	Aug. 18	1791	436	76	988
Awning center support.....	W. Wetteroth.....	565,247	Aug. 4	580	135	76	732
Awning-fixture.....	J. W. Bancroft.....	554,977	Feb. 18	2060	489	74	923
Awning-fixture.....	F. A. Wagner.....	572,461	Dec. 1	660	156	77	1404
Awning for windows. Shade.....	C. J. Waterhouse.....	565,192	Aug. 4	455	109	76	700
Awning-frame.....	J. Morein.....	570,877	Nov. 3	834	194	77	795
Awning. Window-blind.....	C. B. Stilwell.....	564,413	July 21	2064	483	76	412
Awnings. Device for operating roller.....	A. L. Clark.....	559,678	May 5	153	129	75	788
Ax.....	J. H. Karns.....	561,000	May 26	3029	697	75	1327
Ax and ax-handle.....	J. H. Oberg.....	556,767	Mar. 24	2311	543	74	1611
Ax-rack.....	H. F. and C. G. Zimmerlin.....	553,445	Jan. 21	1716	409	74	349
Axiometer.....	J. N. Mayhew.....	571,781	Nov. 24	2398	573	77	1146
Axle.....	J. R. Henry.....	562,467	June 23	2456	596	75	1892
Axle and axle-box.....	M. F. Bishop.....	572,925	Dec. 8	1466	352	77	1579
Axle. Ball-bearing.....	A. C. Farnsworth.....	563,466	July 7	366	89	76	75
Axle-box.....	H. A. Hyle.....	554,186	Feb. 4	703	152	74	634
Axle-box.....	G. M. Kernodle.....	558,963	Apr. 28	2544	616	75	529
Axle-box.....	W. J. McLean.....	571,235	Nov. 10	1454	341	77	937
Axle-box.....	M. B. Schneider.....	558,211	Apr. 14	1240	303	75	252
Axle-box.....	W. Walker.....	561,457	June 2	708	174	75	1503
Axle box and bearing. Car.....	J. R. Baker.....	572,517	Dec. 8	753	179	77	1437
Axle box. Car.....	S. Collins.....	573,391	Dec. 15	2305	551	77	1752
Axle box. Car.....	J. L. Petithomme.....	573,417	Dec. 15	2349	{ 561 562	{ 77	1760
Axle box. Car.....	A. D. Richmond.....	555,184	Feb. 25	2457	582	74	1013
Axle box. Car.....	S. Schroyer.....	566,475	Aug. 25	2795	679	76	1195
Axle box. Car.....	A. A. Weber.....	564,856	July 28	2827	675	76	568
Axle box. Car.....	H. E. Welsh.....	565,870	Aug. 11	1689	413	76	952
Axle-box lid.....	N. H. Davis.....	562,588	June 23	2669	646	75	1932
Axle-box lid.....	N. H. Davis.....	562,589	June 23	2670	646	75	1932
Axle-box lid.....	N. H. Davis.....	570,912	Nov. 10	898	209	77	834
Axle-box lid. Car.....	A. O. Buckius.....	561,201	June 2	229	54	75	1411
Axle-box lid. Car.....	A. O. Buckius.....	570,374	Oct. 27	2958	702	77	597
Axle-box lid. Car.....	A. O. Buckius.....	571,299	Nov. 10	1564	371	77	959
Axle-box lid. Car.....	H. C. Williamson and C. A. Schroyer.....	566,047	Aug. 18	2007	487	76	1032
Axle-box lubricator. Car.....	J. S. Patten.....	559,787	May 5	752	181	75	824
Axle-box. Railway-carriage.....	J. Korbuly.....	558,693	Apr. 21	2079	502	75	424
Axle box. Self-lubricating car.....	H. P. Weale and G. L. Adair.....	558,329	Apr. 14	1440	354	75	290
Axle-box. Self-lubricating dust-tight.....	E. Peckham.....	555,531	Mar. 3	78	17	74	1145
Axle-boxes and apparatus therefor. Manufacture of.....	S. Fox.....	563,470	July 7	392	{ 91 92 93	{ 76	76
Axle boxes. Dust-guard for car.....	H. I. Holderness.....	571,666	Nov. 17	2179	524	77	1085
Axle boxes. Dust-guard for car.....	A. C. and D. W. McCord.....	554,079	Feb. 4	505	113	74	598
Axle-boxes. Oil-port lid for railway-car.....	C. Erdbrink.....	574,026	Dec. 29	3497	{ 835 836	{ 77	2005
Axle-brake.....	J. W. Dudley.....	561,873	June 9	1452	350	75	1669
Axle. Car.....	P. Neagle.....	565,863	Aug. 11	1677	411	76	949
Axle. Carriage.....	E. P. Jordan.....	554,520	Feb. 11	1277	299	74	757
Axle-cutter.....	A. C. Saxton.....	554,034	Feb. 4	425	93, 94	74	583
Axle journals in pedestals. Means for supporting housings of car.....	H. L. Gee.....	574,028	Dec. 29	3500	836	77	2006
Axle-lubricator.....	W. H. Hanna and A. H. Morrow.....	557,580	Apr. 7	99	24	75	20
Axle-lubricator.....	H. Miller.....	554,451	Feb. 11	1167	271	74	737
Axle-lubricator.....	J. Reichenbach.....	572,276	Dec. 1	325	78	77	1341
Axle-lubricator.....	L. R. Roberts.....	567,168	Sept. 8	773	181	76	1440
Axle-lubricator.....	J. C. Whisman and L. F. Gerding.....	552,564	Jan. 7	105	30	74	21
Axle lubricator. Car.....	J. S. Patten.....	557,871	Apr. 7	613	146	75	116
Axle lubricator. Car.....	A. R. Pingel.....	555,827	Mar. 3	564	{ 135 136	{ 74	1233
Axle-lubricator. Car.....	A. W. Wright.....	569,480	Oct. 13	1300	306	77	262
Axle oil-retaining device.....	J. T. Richards.....	560,539	May 19	2165	495	75	1149
Axle-skein.....	R. L. Finley.....	565,677	Aug. 11	1344	327	76	886
Axle-skein.....	E. M. Graham and L. R. Colwell.....	572,161	Dec. 1	119	28	77	1300
Axle-skein.....	C. M. Haeske.....	560,495	May 19	2106	481	75	1138
Axle skein and box.....	J. Szalay.....	567,665	Sept. 15	1629	393	76	1612
Axle-spindle and box.....	J. A. Rumrill.....	567,515	Sept. 8	1369	330	76	1546
Axle support. Revolvable.....	J. H. Curl and C. Faulkner.....	567,582	Sept. 15	1494	358	76	1585
Axle. Vehicle.....	F. G. Davis.....	562,357	June 16	2277	552	75	1842
Axle. Vehicle.....	O. S. Ebert.....	569,183	Oct. 13	799	187	77	168
Axle. Vehicle.....	J. P. Morris.....	573,281	Dec. 15	2112	507	77	1717
Axle. Vehicle.....	H. M. Powell.....	554,536	Feb. 11	1299	306	74	762
Axle. Wagon.....	C. J. Kilian.....	572,207	Dec. 8	1275	307	77	1540
Axles. Eccentric mounting for electric vehicle.....	E. W. G. C. Hoffmann.....	558,953	Apr. 28	2529	613	75	526
Axles, &c., from iron or steel. Apparatus for manufacturing.....	T. Higgins.....	572,204	Dec. 1	185	45, 46	77	1313
Axles. Locking device for extensible.....	S. F. Welch.....	573,836	Dec. 22	3142	748	77	1927
Axles. Manufacture of railway-car.....	P. Weber.....	559,239	Apr. 28	3088	745	75	631
Axles. Means for automatically lubricating vehicle.....	W. W. Conner.....	559,076	Apr. 28	2737	666	75	565
Axles. Mechanism for manufacturing car.....	D. W. Porter.....	570,499	Nov. 3	113	28	77	659
Axles. Roller-bearing for railway-car.....	P. N. Boucher.....	553,773	Jan. 28	2289	{ 542 543	{ 74	472
Babbitt box.....	W. Leatch.....	554,224	Feb. 4	758	173	74	645
Baby-chair, swing, and crib. Combined.....	P. P. Tardis.....	565,047	Aug. 4	145	34	76	645
Baby-jumper.....	J. A. Eshbach.....	558,792	Apr. 21	2246	543	75	455
Baby-jumper.....	J. E. Ring.....	560,148	May 12	1473	333	75	974
Baby-jumper and chair. Combined.....	J. B. Munson.....	561,908	June 9	1507	{ 364 365	{ 75	1679
Baby-walker.....	J. W. Gerl.....	554,179	Feb. 4	695	156	74	632
Baby-walker.....	G. F. Packard.....	572,613	Dec. 8	927	224	77	1474
Baby-walker.....	J. H. Thomas.....	571,583	Nov. 17	2043	486	77	1060

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Baby-walker. Convertible	G. W. Weiland and M. Thomas	559,424	May 5	141	30	75	708
Back-band	W. H. Towery	560,011	May 12	1213	270	75	925
Back-band. Adjustable spine-protecting	J. P. Deadwyler	573,396	Dec. 15	2313	553	77	1753
Badge	T. S. Ballew	568,654	Sept. 29	3401	814	76	1971
Badge	O. T. Eads	569,039	Oct. 6	557	128	77	106
Badge	N. F. Startzel	570,515	Nov. 3	140	35	77	664
Badge	B. S. Whitehead	555,197	Feb. 25	2489	588	74	1018
Badge	B. S. Whitehead	565,582	Aug. 11	1169	281	76	852
Badge pin or button	G. B. Adams	564,356	July 21	1966	462	76	393
Bag:							
See Dressing-bag. Paper bag.							
Dust-bag. Seed-bag.							
Mail-bag. Traveling-bag.							
Nose-bag. Woven bag.							
Bag	B. Arkell	565,587	Aug. 11	1181	284	76	854
Bag-fastener	L. A. Walker	557,175	Mar. 31	3006	718	74	1766
Bag-fastener	H. M. Whitney	561,299	June 2	414	102	75	1450
Bag-fastening machine	M. G. Gill	557,378	Mar. 31	3385	813	74	1834
Bag-filler	J. W. Davidson	571,513	Nov. 17	1926	459	77	1039
Bag-frame	A. Reznicek	557,023	Mar. 24	2756	{ 653 654 }	74	1695
Bag-frame catch	A. Goertz	571,159	Nov. 10	1332	310	77	914
Bag-holder	W. H. Boyd	564,143	July 14	1595	374	76	315
Bag-holder	J. Evered	553,455	Jan. 21	1729	412	74	352
Bag-holder	F. Goff	553,752	Jan. 28	2260	535	74	466
Bag-holder	W. S. Howard	568,253	Sept. 22	2671	639	76	1820
Bag-holder	H. A. Skreberg	570,343	Oct. 27	2906	690	77	587
Bag-holder	G. Strong	566,899	Sept. 1	119	29	76	1304
Bag-holder and scale. Combined	A. P. O'Brien	570,561	Nov. 3	241	60	77	682
Bag-holding mechanism	H. H. Cummings	574,137	Dec. 29	3702	{ 882 883 697 698 699 700 701 613 614 615 616 617 618 619 }	77	2043
Bag machine. Compartment	W. A. Lorenz and W. H. Honiss	559,140	Apr. 28	2892	{ 699 700 701 613 614 615 616 617 618 619 }	75	594
Bag-making and packaging machine	H. E. Smyser	564,722	July 28	2584	{ 616 617 618 619 }	76	525
Bag or sack supporter	K. S. Tarr	558,531	Apr. 21	1800	437	75	374
Bag-tie	D. R. Porter	557,063	Mar. 24	2839	677	74	1713
Bag-tie	C. N. Richardson	563,414	July 7	300	68	76	60
Bag-tie	W. P. Scofield	559,220	Apr. 28	3062	739	75	626
Bagging-machine	C. Schreiber	560,432	May 19	2003	{ 458 459 }	75	1120
Bail and cover. Kettle	C. Peterson	572,821	Dec. 8	1292	311	77	1543
Bail-handle	W. F. Greene	552,758	Jan. 7	473	117	74	89
Bail or fork. Basket	H. M. Weaver	570,438	Oct. 27	3090	{ 734 735 }	77	632
Bait-guard	W. R. Dales	556,494	Mar. 17	1853	432	74	1509
Bait-guard	W. R. Dales	573,572	Dec. 22	2657	631	77	1835
Bake-pan	J. P. Belden	554,502	Feb. 11	1248	292	74	752
Bake-pan	G. Lagelouze	573,986	Dec. 29	3429	822	77	1993
Bake-pan	R. C. Snyder	573,045	Dec. 15	1677	403	77	1637
Bakers' or confectioners' use. Depositing apparatus for	R. Megson	573,432	Dec. 15	2409	574	77	1770
Baking-pan	R. S. Mains	557,685	Apr. 7	288	69	75	55
Baking-pan	W. H. Mullins	563,675	July 7	741	174	76	139
Baking-pan attachment	J. Lacroix	559,720	May 5	618	148	75	800
Baking-powders. Air-tight package for	C. Fricke	563,366	July 7	224	51	76	46
Baking, &c. Rotary stand for	E. Shaw	557,344	Mar. 31	3328	799	74	1823
Balance-staff gage	G. H. Striker	568,501	Sept. 29	3093	745	76	1915
Bale-band fastener	P. K. Dederick	562,122	June 16	1881	456	75	1768
Bale-covering. Metallic	M. A. Heath	556,056	Mar. 10	1016	243	74	1338
Bale-elevator	T. F. Meath	569,976	Oct. 20	2206	524	77	443
Bale-tie	B. Adams	562,692	June 23	2834	688	75	1962
Bale-tie	A. S. Gooch	559,523	May 5	294	70	75	739
Bale-tie	J. W. Griswold	573,872	Dec. 29	3214	764	77	1954
Bale-tie	M. Groo	562,462	June 23	2450	594	75	1891
Bale-tie fastener	E. A. Jablonsky	554,127	Feb. 4	610	138	74	616
Bale-tie machine	S. Kimball	570,555	Nov. 3	220	57, 58	77	678
Bale-tie-making machine. Wire	P. K. Dederick	562,123	June 16	1882	456	75	1768
Bale-ties. Machine for manufacturing	A. Henley	552,837	Jan. 7	634	{ 155 156 }	74	119
Baling machine. Cotton	C. F. and R. H. Daniels	554,775	Feb. 18	1723	404	74	859
Baling-press	B. F. Alter	563,543	July 7	520	120	76	98
Baling-press	A. Barrett	565,666	Aug. 11	1319	318	76	881
Baling-press	J. M. Bishop	563,441	July 7	351	80	76	68
Baling-press	L. Block	553,827	Feb. 4	10	3, 4	74	507
Baling-press	J. W. Brown and A. A. Gehrt	556,301	Mar. 10	1494	347	74	1425
Baling-press	E. H. Butts	570,665	Nov. 3	809	185	77	789
Baling-press	A. L. Cox	563,451	July 7	364	84	76	70
Baling-press	J. R. Davis and T. J. Webb	561,496	June 2	770	189	75	1515
Baling-press	R. E. and R. W. Doty	553,396	Jan. 21	1641	{ 392 393 }	74	335
Baling-press	L. W. Franks	557,573	Apr. 7	82	21	75	17
Baling-press	J. R. Griffith	568,846	Oct. 6	220	52	77	43
Baling-press	H. O. Hem	554,689	Feb. 18	1576	371	74	832
Baling-press	T. H. Killingsworth	565,081	Aug. 4	207	52	76	656
Baling-press	A. L. Kohler	570,027	Oct. 27	2295	545	77	473

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Baling-press	W. S. Liddell	566,460	Aug. 25	2771	674	76	1191
Baling-press	B. F. Martindale	573,023	Dec. 15	1640	394	77	1629
Baling-press	A. Panteney	555,970	Mar. 10	838	200	74	1307
Baling-press	F. L. Robison	553,599	Jan. 28	1998	473	74	417
Baling-press	A. Roop, F. L. Brandon, and J. S. Hart	561,133	June 2	97	27	75	1385
Baling-press	N. E. Swanson	556,482	Mar. 17	1822	{ 423 424 }	{ 74	1503
Baling-press	M. I. Tuttle	558,624	Apr. 21	1952	473	75	401
Baling-press	A. Wickey	556,233	Mar. 10	1336	314	74	1395
Baling-press. Cotton	F. C. Gammons	553,486	Jan. 21	1788	426	74	362
Baling-press. Cotton	R. L. Owen	567,548	Sept. 8	1417	{ 340 341 342 332 333 334 }	{ 76	1555
Baling-press for cotton, &c.	L. B. McDonald	556,274	Mar. 10	1412	{ 335 336 337 338 }	{ 74	1412
Baling-press. Hand	M. Forder	566,976	Sept. 1	427	100	76	1362
Ball: See Foot-ball. Rubber ball.							
Ball	J. W. Haley and D. H. Tuttle	563,170	June 30	3721	891	75	2154
Ball-grinding machine	P. C. McGrath	556,364	Mar. 17	1611	377	74	1463
Ball grinding-mill	A. Herzfeld	569,828	Oct. 20	1955	466	77	396
Ball-mill for mixing or grinding	T. Hoelzer	567,189	Sept. 8	800	129	76	1445
Ball-scoring device. Base	S. D. McElroy	565,141	Aug. 4	360	83	76	684
Ball-throwing device	E. Rudolph	563,807	July 14	974	232	76	199
Ballast-burning apparatus	B. F. Dailey	556,087	Mar. 10	1069	{ 255 256 }	{ 74	1347
Ballot-box	F. L. Fairbank and C. B. Langley	555,600	Mar. 3	199	46	74	1166
Ballot-box	R. L. Jones	558,962	Apr. 28	2543	616	75	529
Band. Bundle	E. L. Yale	557,746	Apr. 7	409	96	75	77
Band-cutter and feeder	O. Albertus and M. Johnson	556,326	Mar. 17	1539	359	74	1449
Band-cutter and feeder	W. W. Dingee	558,873	Apr. 21	2381	{ 580 581 }	{ 75	481
Band-cutter and feeder	J. E. Fisher	567,587	Sept. 15	1501	359	76	1586
Band-cutter and feeder	W. F. Greimann	568,026	Sept. 22	2265	{ 548 549 }	{ 76	1745
Band-cutter and feeder	H. A. Guy	562,724	June 23	2902	704	75	1976
Band-cutter and feeder	D. Harper	571,161	Nov. 10	1334	311	77	915
Band-cutter and feeder	A. Heine	564,280	July 21	1841	{ 431 432 }	{ 76	371
Band-cutter and feeder	W. McCaleb	561,909	June 9	1509	365	75	1680
Band-cutter and feeder	W. Morley	573,898	Dec. 29	3254	775	77	1962
Band-cutter and feeder	H. D. Myers	571,008	Nov. 10	1059	247	77	864
Band-cutter and feeder	O. E. Olsen	553,257	Jan. 21	1395	{ 340 341 }	{ 74	290
Band-cutter and feeder	A. E. Price	552,620	Jan. 7	200	56	74	40
Band-cutter and feeder	E. C. and G. R. Shaw	563,078	June 30	3573	857	75	2126
Band-cutter and feeder	J. E. Sponseller	552,591	Jan. 7	150	41, 42	74	30
Band-cutter and feeder	W. H. Sprinkle	570,514	Nov. 3	138	34, 35	77	664
Band-cutter and feeder attachment	J. A. Lovette	573,019	Dec. 15	1634	393	77	1628
Band-fastener	E. A. Oliver	555,524	Mar. 3	65	14	74	1142
Bandage	C. A. Provost	571,172	Nov. 10	1348	314	77	917
Bandage	C. von Stammer	565,700	Aug. 11	1377	336	76	893
Bandage. Suspensory	M. H. Harden	567,343	Sept. 8	1092	263	76	1496
Bandaging-table. Transportable	S. Lichtenstein	561,514	June 2	801	195	75	1522
Banjo	M. F. Carter	555,636	Mar. 3	265	61	74	1173
Banjo	I. Consalvi	568,297	Sept. 22	2741	658	76	1834
Banjo	F. C. Wilkes	554,967	Feb. 18	2056	488	74	922
Banjo	C. F. Dusch	569,860	Oct. 20	2009	407	77	406
Bank. Coin	S. E. Swenson	574,180	Dec. 29	3804	493	77	2060
Bank-fixture	I. J. Barnes	561,753	June 9	1243	294	75	1631
Bank. Savings	H. H. Norrington	555,111	Feb. 25	2336	555	74	989
Bank. Savings	H. H. Norrington	555,876	Mar. 3	658	157	74	1251
Bank. Savings	H. H. Norrington	569,798	Oct. 20	1912	454	77	388
Bankers, &c. Financial instrument for use of	C. W. and W. L. Walters	555,230	Feb. 25	2536	{ 597 598 }	{ 74	1027
Bar: See Bicycle handle-bar. Sash-bar. Draw-bar.							
Bars and ingots. Power-driven tool for dressing	F. J. Wooster	570,079	Oct. 27	2395	567	77	492
Barber's appliance	R. B. Slee	570,107	Oct. 27	2440	580	77	501
Barber's case	G. Carlson and P. Lawson	569,274	Oct. 13	959	230	77	199
Barber's chair	W. Archer	557,097	Mar. 31	2870	666	74	1741
Barber's-chair attachment	F. Faneuf	557,063	Mar. 24	2812	670	74	1707
Barbers' chairs. Shampooing attachment for	J. E. Hanger	555,860	Mar. 3	624	150	71	1245
Barber's turn	O. L. Danforth	569,178	Oct. 13	789	185	77	167
Barge for transporting and launching mattresses for jetty-work	W. T. Gaynor	572,001	Nov. 24	2791	658	77	1320
Bark-mill	A. F. Jones	561,054	May 26	3119	719	75	1345
Bark-rossing device	A. M. Foster	563,584	July 7	593	138	76	111
Barometer	W. T. Flournoy	572,536	Dec. 8	782	187	77	1442
Barrel	J. L. Allen	572,624	Dec. 8	942	229	77	1477
Barrel	F. J. Slaker	570,883	Nov. 3	849	198	77	799
Barrel and truck. Combination waste	J. R. Russell	569,520	Oct. 13	1385	326	77	277
Barrel attachment	E. Blount	554,211	Feb. 4	739	168	74	641
Barrel charging or discharging apparatus	E. Friedman	553,709	Jan. 28	2182	{ 517 518 }	{ 74	451
Barrel-cover	H. Springsted	571,544	Nov. 17	1982	471	77	1049

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Pr. g.	Vol.	Page.
Barrel-drying kiln	A. J. Bates	554,973	Feb. 18	2063	{ 490 491 }	{ 74 75 }	923
Barrel-elevator	C. A. Fry	561,782	June 9	1297	312	75	1640
Barrel-elevator	A. Smith	561,827	June 9	1371	329	75	1653
Barrel ends. Machine for leveling, chamfering, and crozing	E. W. Sanderson	568,170	Sept. 22	2531	609	76	1794
Barrel-filling machine	J. E. J. Goodlett	570,851	Nov. 3	787	{ 180 181 }	{ 77 78 }	785
Barrel-forming machine	J. Hauenstein	560,991	May 26	3015	694	75	1324
Barrel-head machine	A. Hitzert	568,978	Oct. 6	445	{ 99 100 }	{ 77 78 }	86
Barrel-hooping machine	H. U. Palmer	573,159	Dec. 15	1882	453	77	1675
Barrel-machine	J. Polke	573,915	Dec. 29	3282	785	77	1968
Barrel-making machine	P. Little	559,859	May 12	935	208	75	872
Barrel. Metallic	I. Van Tilburg	573,062	Dec. 15	1713	410	77	1644
Barrel-opener	G. J. Capewell	561,527	June 2	853	205	75	1531
Barrel or package register	E. Friedman and G. R. P. Engert	560,027	May 12	1247	280	75	931
Barrel-washer	C. Herold	568,347	Sept. 29	2836	683	76	1867
Barrel-washer	C. A. Johnson	572,116	Dec. 1	37	9, 10	77	1284
Barrel-washer	L. C. Schmitt	556,377	Mar. 17	1634	383	74	1467
Barrel-washer	G. Schock	570,610	Nov. 3	325	80	77	690
Barrels. Form for setting up	J. Carroll	553,301	Jan. 21	1483	356	74	306
Barrels. Method of and apparatus for making	R. Klinger	553,809	Jan. 28	2351	559	74	453
Basin, bath, sink, &c. Wash	S. W. Lewis	563,261	Sept. 22	2686	644	76	1823
Basin clamp. Adjustable wash	G. M. Willment	569,268	Oct. 13	949	227	77	197
Basin fixture. Wash	C. H. Moore	559,188	Apr. 28	2976	719	75	610
Basin or bath-tub stopper. Wash	J. N. Crabb	559,845	May 12	902	201	75	866
Basin-plug	H. C. Freshour	565,409	Aug. 4	827	196	76	770
Basin, &c. Wash	C. H. Moore	563,672	July 7	737	174	76	138
Basin, &c. Wash	J. P. Putnam	563,064	June 30	3522	{ 845 846 }	{ 75 76 }	2116
Basins. Combination supply and waste fixture for wash	J. Totham	553,699	Jan. 28	2167	512	74	448
Basket	C. J. Ash	559,250	Apr. 28	3108	750	75	635
Basket	E. L. Cadwell	562,760	June 23	2996	735	75	1994
Basket	A. Kuhn	565,006	Aug. 4	76	18	76	632
Basket	F. Parthier	571,452	Nov. 17	1810	432	77	1018
Basket	J. H. Rust	565,510	Aug. 11	1049	251	76	830
Basket	A. Schmidt	571,605	Nov. 17	2081	500	77	1066
Basket-handle. Detachable	A. Hourdeaux	565,460	Aug. 11	919	219	76	806
Basket. Lunch	A. Probola	556,370	Mar. 17	1621	379	74	1465
Basket. Metallic	J. R. Coleman	561,655	June 9	1055	255	75	1594
Basket or can. Fruit-picker's	A. M. Denig	570,385	Oct. 27	2976	705	77	600
Basket-wiring mechanism	G. B. Thayer and E. D. Wheeler	573,311	Dec. 15	2178	520	77	1728
Bat. Cricket	E. Sefton	561,618	June 9	994	239	75	1584
Bath:							
See Cabinet-bath.	Shower or needle bath.						
Heat-bath.	Turkish bath.						
Hot-air bath.	Vapor-bath.						
Bath and shower apparatus. Combined	J. F. Foley	565,408	Aug. 4	826	195	76	770
Bath apparatus	M. J. Lyons and L. Beemer	558,292	Apr. 14	1380	337	75	278
Bath apparatus	M. J. Lyons and L. Beemer	565,010	Aug. 4	81	19	76	632
Bath apparatus. Hot-air and steam	S. Maschke	568,622	Sept. 29	3335	799	76	1959
Bath apparatus. Steam	M. Hammer and W. G. Grosjean	568,303	Sept. 22	2753	662	76	1837
Bath cabinet. Thermal	C. S. Jones and K. McCreery	569,417	Oct. 13	1209	284	77	245
Bath fixture. Hot-water	T. C. Beaumont	555,033	Feb. 18	2178	519	74	943
Bath house. Portable steam and shower	H. E. Wyckoff	569,808	Oct. 20	1924	457	77	390
Bath-tub	C. F. Burnap	555,560	Mar. 3	130	30	74	1154
Bath-tub	G. F. Butterfield	565,836	Aug. 11	1617	396	76	937
Bath-tub	K. F. Story	557,289	Mar. 31	3234	776	74	1804
Bath-tub	S. F. Williams	557,926	Apr. 7	709	171	75	134
Bath-tub fixture	J. Clifford	566,561	Aug. 25	2918	712	76	1219
Bath-tub. Invalid's	M. O. Ruffner	573,625	Dec. 22	2772	657	77	1859
Bath-tubs, &c. Leg for	J. H. Stevens, Jr.	553,969	Feb. 4	305	68	74	560
Bath-tubs, washstands, &c. Sanitary appliance for	A. O'Brien	567,499	Sept. 8	1347	324	76	1543
Baths or basins. Overflow and waste for	J. J. Wade	556,388	Mar. 17	1650	386	74	1470
Bathing apparatus	G. W. McLarty	567,915	Sept. 15	2034	482	76	1691
Bathing device	J. E. Wenger	553,046	Jan. 14	1012	247	74	204
Bathing-waters. Device for feeding oxygen or carbonic acid in circulating	G. A. Schmitz	573,927	Dec. 29	3305	790	77	1972
Batter-mixer, &c.	S. H. Coombs	573,208	Dec. 15	1973	475	77	1691
Batteries. Automatic circuit-closing device for galvanic	J. D. Holmes and W. L. Heath	572,754	Dec. 8	1182	284	77	1522
Batteries. Charging and discharging secondary	E. N. Dickerson	565,727	Aug. 11	1434	{ 349 350 }	{ 76 77 }	902
Batteries. Composition for exciting fluids for electrical	F. G. Curtis	561,204	June 2	231		75	1412
Batteries. Utilizing material of worn-out secondary	W. L. Silvey	562,776	June 23	2990		75	1994
Battery:							
See Electric battery.	Primary battery.						
Faradic battery.	Secondary battery.						
Galvanic battery.	Storage battery.						
Gun-battery.	Voltaic battery.						
Battery	W. S. Doe	554,247	Feb. 11	808	184	74	669
Battery	W. Morrison	558,091	Apr. 14	1046	256	75	214
Battery-cell	C. Willis	572,285	Dec. 1	349	83	77	1346
Battery cell or box. Electric	J. M. Moffat	572,438	Dec. 1	622	148	77	1396
Battery connection	M. M. Kohn	556,544	Mar. 17	1942	453	74	1525
Battery connection. Storage	R. M. Lloyd	560,272	May 19	1715	390	75	1069
Battery cut-out. Automatic electrical	H. W. Clelland and F. J. Madden	561,565	June 9	903	217	75	1566
Battery element. Electric	G. J. Ortnor	561,810	June 9	1341	320	75	1648
Battery-grid and machine for producing same	A. F. Madden	572,363	Dec. 1	489	{ 114 115 }	{ 77 78 }	1371
Battery jar. Galvanic	C. C. Dusenbury	557,779	Apr. 7	460	109	75	87

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	De's.	Vol.	Page.
Battery-plate mold.....	C. G. Fawkes.....	567,705	Sept. 15	1692	407	76	1624
Battery plate. Secondary.....	I. Samuels.....	556,027	Mar. 10	951	227	74	1326
Battery plate. Secondary-voltaic.....	J. G. A. Rhodin.....	567,044	Sept. 1	554	129	76	1387
Battery plate. Secondary-voltaic.....	J. G. A. Rhodin.....	567,045	Sept. 1	555	129	76	1387
Battery plates. Machine for making grids for secondary.....	A. F. Madden.....	570,224	Oct. 27	2649	628 629	77	541
Battery plates. Making secondary or storage.....	W. Petschel.....	566,531	Aug. 25	2874		76	1211
Battery plates. Manufacturing secondary.....	C. H. Weise.....	570,619	Nov. 3	342	85	77	702
Battery pole-piece. Electrical.....	F. G. Curtis.....	561,205	June 2	232	55	75	1412
Battery-reverser. Automatic.....	P. Minnis.....	557,854	Apr. 7	588	140	75	111
Battery system. Storage.....	F. D. Goold.....	565,741	Aug. 11	1456	355 356	76	906
Battery zinc-support.....	H. J. Brewer.....	557,048	Mar. 24	2791	663	74	1702
Batting.....	G. V. B. Clark.....	558,352	Apr. 14	1473	362	75	296
Beam-clamp. Adjustable.....	A. B. Carll.....	559,025	Apr. 28	2648	645	75	549
Beam. Structural.....	J. H. Edwards.....	562,175	June 16	1968	477	75	1785
Beams. Machine for cutting off.....	G. H. Sheldon.....	552,784	Jan. 7	527	129	74	99
Beaming attachment.....	W. H. Whitehead.....	560,310	May 19	1782	406	75	10-0
Bean picker and cleaner.....	G. F. Crippen.....	552,748	Jan. 7	450	112 113	74	85
Bearing.....	M. E. Thomas and G. C. Twyman.....	564,123	July 14	1567	368	76	308
Bearing.....	A. Wilson.....	569,733	Oct. 20	1794	426	77	367
Bearing and hub. Vehicle axle.....	A. E. Dain.....	573,394	Dec. 15	2311	552	77	1753
Bearing. Antifriction.....	A. O. Barnes.....	554,570	Feb. 11	1354	317	74	773
Bearing. Antifriction.....	S. H. Cowles.....	558,044	Apr. 14	969	237	75	200
Bearing. Antifriction.....	F. McGloin.....	560,322	May 19	1801	410	75	1083
Bearing. Antifriction.....	A. H. McMaster.....	553,656	Jan. 28	2100	496	74	435
Bearing. Antifriction.....	C. W. Robinson.....	570,504	Nov. 3	124	30	77	661
Bearing. Antifriction.....	H. R. Wellman.....	556,450	Mar. 17	1772	411	74	1494
Bearing. Antifriction shaft.....	C. W. Pierce.....	559,537	May 5	324	77	75	745
Bearing. Axle.....	A. C. Stilson.....	567,697	Sept. 15	1677	403 404 405 406 407	76	1621
Bearing. Axle.....	A. J. Theiring.....	561,626	June 9	1009	242	75	1586
Bearing. Axle.....	A. J. Theiring.....	570,111	Oct. 27	2449	582	77	502
Bearing. Axle spindle.....	F. L. G. Chapman.....	553,334	Jan. 21	1540	368	74	316
Bearing. Ball.....	F. C. Avery.....	556,655	Mar. 17	2109	493	74	1556
Bearing. Ball.....	W. Briscoe.....	561,861	June 9	1435	346	75	1066
Bearing. Ball.....	C. H. Chapman.....	567,849	Sept. 15	1946	466	76	1673
Bearing. Ball.....	W. Devoll.....	567,125	Sept. 8	700	163	76	1426
Bearing. Ball.....	W. L. Dismukes.....	556,257	Mar. 10	1375	323	74	1403
Bearing. Ball.....	A. C. Farnsworth.....	567,309	Sept. 8	1024	245 246	76	1484
Bearing. Ball.....	E. Flannigan.....	572,880	Dec. 8	1379	334	77	1561
Bearing. Ball.....	E. J. Kelly.....	573,982	Dec. 29	3424	820	77	1992
Bearing. Ball.....	H. Lanus.....	558,732	Apr. 21	2140	515	75	436
Bearing. Ball.....	A. Marceau.....	559,902	May 12	1024	227	75	889
Bearing. Ball.....	H. L. G. Meyer and L. Carrer.....	553,588	Jan. 28	1984	469	74	415
Bearing. Ball.....	C. F. Pontious.....	554,004	Feb. 4	368	80	74	572
Bearing. Ball.....	H. A. Stephens.....	572,385	Dec. 1	547	129	77	1382
Bearing. Ball.....	A. W. Straub.....	554,629	Feb. 11	1479	346	74	795
Bearing. Ball.....	P. F. Turner.....	567,013	Sept. 1	492	114	76	1375
Bearing. Ball.....	A. H. Whatley.....	556,117	Mar. 10	1124	266	74	1357
Bearing for axles. Ball.....	T. H. Holman.....	563,858	July 14	1081	255	76	217
Bearing for cycles, &c. Ball.....	W. J. Busse.....	567,732	Sept. 15	1740	417	76	1633
Bearing for emery-wheel shafts.....	E. R. Hyde.....	560,214	May 19	1599	362	75	1049
Bearing for loose pulleys.....	M. Jefferson, W. W. L. Lishman, and J. Clapham.....	558,392	Apr. 14	1552	379	75	310
Bearing for screw-shafts. End.....	R. C. Smith.....	553,140	Jan. 14	1184	237 238	74	237
Bearing for shafts and axles.....	H. H. George.....	552,902	Jan. 14	777	189	74	159
Bearing for shafting. Roller.....	L. O. Gilliland.....	568,898	Oct. 6	310	71	77	60
Bearing for vehicle-axles. Roller.....	J. Bradley.....	567,451	Sept. 8	1270	308	76	1528
Bearing for vehicles. Ball and roller.....	I. Barker.....	557,941	Apr. 7	731	175	75	138
Bearing for weighing-machines.....	F. H. Richards.....	568,582	Sept. 29	3254	783	76	1944
Bearing for wheels of vehicles. Roller.....	A. C. Brownell.....	566,056	Aug. 18	2024	491	76	1035
Bearing mechanism. Ball.....	G. G. Brandenburg.....	556,249	Mar. 10	1364	321	74	1401
Bearing. Rock-shaft.....	J. G. Stuckstede.....	555,346	Feb. 25	2749	644	74	1066
Bearing. Roller.....	C. Bender and C. G. S. Mueller.....	563,251	July 7	21	3	76	6
Bearing. Roller.....	P. Dansereau.....	561,971	June 16	1616	393	75	1721
Bearing. Roller.....	R. Eichstadt.....	563,146	June 30	3684	882	75	2146
Bearing. Roller.....	I. Ellison.....	552,752	Jan. 7	457	114	74	86
Bearing. Roller.....	B. S. Lawson.....	572,681	Dec. 8	1041	252	77	1497
Bearing. Roller.....	J. D. Mattison.....	567,150	Sept. 8	744	174	76	1434
Bearing. Roller.....	F. Mossberg.....	555,655	Mar. 3	300	71	74	1184
Bearing. Roller.....	F. Mossberg.....	560,521	May 19	2141	489	75	1144
Bearing. Roller.....	R. Scharfe.....	563,943	July 14	1241	290	76	246
Bearing. Roller.....	G. C. Twyman.....	564,127	July 14	1572	369	76	310
Bearing. Roller.....	W. H. Woodcock.....	557,042	Mar. 24	2782	661	74	1700
Bearing. Self-lubricating.....	W. C. Moreland.....	567,489	Sept. 8	1331	321	76	1540
Bearing. Shaft.....	D. S. Hitchcock.....	566,518	Aug. 25	2859	695	76	1208
Bearing. Shaft.....	M. Jefferson, W. W. L. Lishman, and J. Clapham.....	557,510	Mar. 31	3623	868	74	1878
Bearing. Shaft.....	M. Jefferson, W. W. L. Lishman, and J. Clapham.....	574,246	Dec. 29	3947	938	77	2087
Bearing. Shaft or axle.....	F. A. Mueller.....	570,040	Oct. 27	2315	549	77	476
Bearing step. Ball.....	W. H. Rook, Jr.....	563,720	July 7	817	195	76	152
Bearing. Thrust.....	J. Gilbert.....	564,609	July 28	2406	568	76	491
Bearing. Thrust.....	P. H. Hutchinson, Jr.....	566,178	Aug. 18	2232	545	76	1073
Bearing. Thrust.....	M. Schmaltz.....	564,537	July 21	2263	531	76	447
Bearing. Truck.....	S. A. Eisele.....	560,486	May 19	2093	478	75	1136
Bearing. Vehicle roller.....	J. D. Kefuss.....	556,678	Mar. 17	2142	500	74	1562

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Bearing. Vehicle-wheel	J. Pettinger	556,640	Mar. 17	2087	488	74	1552
Bearing. Vehicle-wheel	G. W. Wolfe	566,706	Aug. 25	3141	768	76	1260
Bearings. Ball-retainer for antifriction wheel	E. K. Righter	570,146	Oct. 27	2510	595	77	514
Bearings. Material for applying oil to axle	G. J. Churchward	590,689	May 26	2496	573	75	1226
Bearings. Shaft-hanger box for spring-roller	J. W. Hyatt	555,510	Mar. 3	45	10	74	1139
Beating-out machine	E. H. Taylor	562,865	June 30	3165	767	75	2043
Bed	M. E. Converse	556,334	Mar. 17	1553	363	74	1451
Bed	H. Prufrock. (Reissue)	11,565	Aug. 25	3179	777	76	1267
Bed	P. B. Rooney	563,210	June 30	3796	910	75	2168
Bed	A. A. Stoll	568,811	Oct. 6	169	40	77	34
Bed and bath for invalids. Combination	F. D. Swaney	566,813	Sept. 1	124	30, 31	76	1305
Bed and couch. Combined folding	A. S. Leighton, Jr.	564,565	July 21	2326	546	76	457
Bed and couch. Folding	E. E. Peck	570,048	Oct. 27	2328	552	77	479
Bed and sofa. Combination	J. A. Peterson and G. Soderstrom	570,563	Nov. 3	245	61	77	683
Bed and sofa. Combined	T. Langdon	561,005	May 26	3040	699	75	1329
Bed-bottom	A. McKnight	565,018	Aug. 4	93	22	76	635
Bed-bottom. Double-decker spring	J. G. Smith	561,139	June 2	106	29	75	1388
Bed-bottom. Metallic	P. H. Mellon	568,165	Sept. 22	2523	607	76	1792
Bed-bottom or cot	J. Wood	571,821	Nov. 24	2466	586	77	1159
Bed-bottom. Pneumatic	J. Gimbel	558,605	Apr. 21	1924	468	75	396
Bed-bottom. Spring	T. B. Casselberry	566,496	Aug. 25	2822	688	76	1200
Bed-bottom. Spring	A. Cole	564,669	July 28	2846	682	76	572
Bed-bottom. Spring	F. D. Colvin	570,425	Oct. 27	3059	724 725	77	616
Bed-bottom. Spring	T. M. Cottle	568,745	Oct. 6	53	13	77	13
Bed-bottom. Spring	F. L. Groff and F. D. Colvin	556,923	Mar. 24	2571	605	74	1659
Bed-bottom. Spring	J. P. Leggett	553,412	Jan. 21	1670	398	74	340
Bed-bottom. Spring	W. H. Linger	557,839	Apr. 7	563	135 136	75	106
Bed-bottom. Spring	R. S. Sample	563,942	July 14	1240	290	76	245
Bed-bottom. Spring	J. G. Smith	572,577	Dec. 8	859	206 207	77	1461
Bed. Child's folding	L. B. Shelton	557,901	Apr. 7	661	159	75	125
Bedclothes-clamp	J. W. Utter	557,456	Mar. 31	3517	840	74	1859
Bedclothing. Device for airing	C. H. Merrill and L. A. Butler	563,390	July 7	259	58	76	52
Bed-couch	J. C. Wood	559,634	May 12	881	197	75	862
Bed crib attachment	W. H. Doughty	560,979	May 26	2996	690	75	1321
Bed-curtain. Folding	W. J. Wright	556,235	Mar. 10	1340	315	74	1396
Bed-fastening. Metallic	P. H. Mellon	554,132	Feb. 4	617	139	74	617
Bed. Folding	E. M. Antisdal	564,465	July 21	2150	503	76	426
Bed. Folding	L. A. Auerbach	562,269	June 16	2120	514	75	1813
Bed. Folding	L. N. Bachand	564,578	July 21	2351	553	76	462
Bed. Folding	C. H. Bucher	571,643	Nov. 17	2143	514	77	1078
Bed. Folding	J. Christ	554,653	Feb. 18	1519	359	74	819
Bed. Folding	R. D. Cody	556,576	Mar. 17	1991	45 466	74	1534
Bed. Folding	W. Cole, Jr.	561,654	June 9	1054	255	75	1594
Bed. Folding	J. D. Ennes	555,441	Feb. 25	2928	695	74	1100
Bed. Folding	A. Fay and J. McNab	565,536	Aug. 11	1066	261	76	837
Bed. Folding	J. Hotsapillar	569,202	Oct. 13	832	196	77	175
Bed. Folding	H. G. Krasky	571,529	Nov. 17	1950	466	77	1044
Bed. Folding	W. H. McEnhill and B. B. Richardson	567,154	Sept. 8	753	176	76	1436
Bed. Folding	J. H. Morrison	573,027	Dec. 15	1646	395 396	77	1631
Bed. Folding	W. J. Pyle	564,644	July 28	2465	581	76	503
Bed. Folding	M. Samuels	554,144	Feb. 4	633	143	74	620
Bed. Folding	G. W. Sanor	553,968	Feb. 4	303	67, 68	74	560
Bed. Folding	R. J. Stuart	570,348	Oct. 27	2913	691	77	589
Bed. Folding	J. G. Winship	555,415	Feb. 25	2861	675	74	1088
Bed. Invalid	S. J. Conkwright	554,580	Feb. 11	1372	322 323	74	777
Bed. Invalid	J. T. Hall	555,859	Mar. 3	622	149	74	1244
Bed. Invalid	J. S. Schmitt	557,614	Apr. 7	150	39	75	30
Bed. Invalid	B. C. and T. D. Souney	552,672	Jan. 7	299	80	74	58
Bed. Invalid and surgical	J. B. Young	566,114	Aug. 18	2128	518	76	1053
Bed-lounge	L. G. Ihrig	559,778	May 5	740	178	75	821
Bed-pan	C. L. Hutton	569,922	Oct. 20	2111	502	77	425
Bed-plate. Elastic	P. Knoch	571,618	Nov. 17	2101	504	77	1070
Bed-slat	J. Pettee, Jr.	557,697	Apr. 7	308	73	75	58
Bed-slat fastener	L. F. Nessel	557,997	Apr. 7	861	217	75	162
Bed-slat fastener	W. W. Whitaker	558,136	Apr. 14	1118	273	75	229
Bed-slat-hanger	O. S. Foster and F. E. Wilcox	572,600	Dec. 8	905	219	77	1469
Bed. Sofa	P. Andina	561,751	June 9	1241	293	75	1631
Bed. Sofa	J. A. Perry	569,664	Oct. 20	1652	390	77	343
Bed. Sofa	H. M. Stokes	569,679	Oct. 20	1663	399	77	349
Bed. Spring	G. Bacon	572,147	Dec. 1	92	20	77	1295
Bed. Spring	W. R. Boisvert	569,994	Oct. 27	2243	532	77	462
Bed. Spring	G. Mafera	566,781	Sept. 1	77	20	76	1295
Bed. Spring	J. R. Rolison	557,890	Apr. 7	638	153	75	120
Bed-spring	J. M. Crutcher	558,360	Apr. 14	1490	366	75	299
Bed-spring	W. H. Ivens, Jr.	554,822	Feb. 18	1805	423	74	876
Bed-spring frame	R. S. Sample	570,341	Oct. 27	2904	689	77	57
Bed-spring tightener	J. J. A. Miller	569,114	Oct. 6	675	158	77	129
Bed-support	A. J. Robinson	559,218	Apr. 28	3060	738 739	75	626
Bed. Table folding	R. Vocke and E. Lungstras	563,520	July 7	481	113 114	76	92
Beds. Device for securing bedclothes on	W. F. Nagel	568,986	Oct. 6	474	107	77	91
Beds from insects. Device for protecting	P. Smith	559,414	May 5	125	27	75	705
Bedding-ventilator	A. Fraser	555,367	Feb. 25	2788	652	74	1074
Bedstead	E. J. Barcalo	567,731	Sept. 15	1739	416	76	1633
Bedstead	A. Christ	561,489	June 2	761	186	75	1513

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bedstead.....	J. R. Deihm.....	556,404	Mar. 17	1680	{ 391 392 }	74	1476
Bedstead.....	M. Dumas.....	570,788	Nov. 3	670	154	77	761
Bedstead.....	Z. T. Jones.....	571,768	Nov. 24	2378	568	77	1142
Bedstead.....	E. E. Peck.....	563,059	June 30	3512	844	75	2115
Bedstead attachment.....	W. B. Mauerman and G. Wunderlich	559,186	Apr. 28	2972	{ 718 719 }	75	610
Bedstead-brace and mattress-support	J. D. Wiltfong.....	563,633	July 7	668	156	76	125
Bedstead-clamp. Screw-eye.....	R. F. Clark.....	566,742	Sept. 1	18	5	76	1284
Bedstead. Extension.....	A. Butzer.....	573,390	Dec. 15	2303	{ 550 551 }	77	1750
Bedstead-fastening.....	E. F. Tilley.....	563,099	June 30	3607	865	75	2132
Bedstead-fastening.....	J. T. Watkins.....	553,769	Jan. 28	22-5	541	74	471
Bedstead-fastening and bed-spring support. Combined	M. Imbertson and J. A. Carlson	555,042	Feb. 18	2207	526	74	947
Bedstead fittings.....	J. Talbot.....	556,222	Mar. 10	1318	309	74	1392
Bedstead. Folding.....	J. R. Deihm.....	569,548	Oct. 13	1423	336	77	285
Bedstead. Folding.....	A. H. Moore.....	565,496	Aug. 11	1027	{ 246 247 }	76	826
Bedstead. Folding-cot.....	A. L. Ruffe.....	568,282	Sept. 22	2718	652	76	1830
Bedstead. Invalid.....	G. E. Gorham.....	559,973	May 12	1141	255	75	913
Bedstead. Invalid.....	G. E. Gorham.....	559,974	May 12	1144	{ 255 256 }	75	914
Bedstead. Invalid's.....	A. M. Douglas.....	572,529	Dec. 8	771	{ 183 184 }	77	1440
Bedstead-joint.....	D. D. Curtis.....	572,412	Dec. 1	526	139	77	1390
Bedstead. Metal.....	D. Frank.....	572,253	Dec. 1	279	67	77	1332
Bedstead. Metal.....	E. T. McKaig.....	552,770	Jan. 7	429	121	74	92
Bedstead. Metallic.....	L. Coburn.....	554,477	Feb. 11	1210	282	74	745
Bedstead mosquito-bar attachment.....	G. D. A. Krigbaum.....	567,4-1	Sept. 8	1321	318	76	1538
Bedstead-rail plate.....	H. S. Hart.....	559,381	May 5	55	12	75	691
Bedstead. Spring.....	W. M. Jones.....	564,621	July 28	2432	572	76	496
Bedstead spring supporting frame.....	H. Quinn.....	567,656	Sept. 15	1617	389	76	1610
Bedstead tray attachment.....	E. F. Fry.....	566,677	Aug. 25	3087	754	76	1252
Bed-teads. Post-and-rail connection for metallic	F. M. Tinkham.....	565,709	Aug. 11	1390	339	76	895
Bedsteads. Rail grip-joint for iron	G. Brand.....	570,369	Oct. 27	2952	700	77	596
Bed table attachment.....	J. A. Norton.....	573,909	Dec. 29	3270	{ 780 781 }	77	1966
Bee-feeder.....	J. S. Rooker.....	562,853	June 30	3145	761	75	2040
Beehive.....	C. C. Aldrich.....	557,532	Apr. 7	1	1	75	3
Beehive.....	J. Hill.....	557,808	Apr. 7	512	124	75	97
Beehive.....	N. C. Kelso.....	566,913	Sept. 1	302	71	76	1340
Beehive attachment.....	J. Hill.....	565,353	Aug. 4	737	176	76	753
Bee-hiver.....	W. R. Rives.....	567,167	Sept. 8	772	181	76	1440
Bee-smoker.....	C. F. Street and W. Garrett	559,546	May 5	341	82	75	749
Beer barreling and bunging apparatus.....	A. E. Ferree.....	568,133	Sept. 22	2472	{ 592 593 }	76	1782
Beer-cooler.....	J. F. Theurer.....	561,740	June 9	1216	{ 288 289 }	75	1625
Beer-drawing apparatus.....	G. Williams.....	553,376	Jan. 21	1613	384	74	330
Beer-drawing apparatus.....	J. R. Young.....	573,172	Dec. 15	1906	458	77	1620
Beer. Finishing.....	J. F. Wittemann.....	554,851	Feb. 18	1852	436	74	885
Beer fountain. Steam.....	W. H. Smyth.....	566,942	Sept. 1	356	83	76	1350
Beer governor. Steam.....	J. D. De Gear.....	570,086	Oct. 27	2408	570	77	495
Beer orale. Manufacturing.....	G. Sobotka and A. Klemetschek	553,269	Jan. 21	1420	345	74	295
Beer, &c. Receptacle for preserving, transporting, and selling	H. and B. Dräger.....	572,248	Dec. 1	269	65	77	1330
Beer steamer. Bottled.....	G. Freiwald.....	562,460	June 23	2447	594	75	1891
Bell.....	N. T. Mills.....	568,693	Sept. 29	3469	830	76	1984
Bell. Alarm.....	J. Boyd.....	563,377	July 14	1041	245	76	210
Bell and mail-receiver. Combined door	J. H. Key, H. Brevard, and W. R. Purifoy	568,306	Sept. 22	2756	663	76	1837
Bell. Bicycle.....	H. B. Breckwedel.....	558,347	Apr. 14	1467	360	75	295
Bell. Bicycle.....	M. L. Carpenter.....	559,437	May 5	161	35	75	712
Bell. Bicycle.....	P. Flucks and G. P. McDonnell	572,881	Dec. 8	1380	{ 334 335 }	77	1561
Bell. Bicycle.....	A. B. Hunn.....	572,932	Dec. 8	1481	355	77	1582
Bell. Bicycle.....	D. Kohn.....	573,668	Dec. 22	2862	675	77	1874
Bell. Bicycle.....	H. Lucas.....	571,777	Nov. 24	2392	572	77	1145
Bell. Bicycle.....	J. McMabel.....	553,129	Jan. 14	1167	284	74	234
Bell. Bicycle.....	N. T. Mills.....	562,638	June 23	2749	668	75	1947
Bell. Bicycle.....	J. R. Moore.....	570,944	Nov. 10	954	221	77	845
Bell. Bicycle.....	H. S. Pullman.....	553,568	Jan. 28	1945	459	74	408
Bell. Bicycle.....	F. Rhind.....	559,950	May 12	1102	245	75	902
Bell. Bicycle.....	A. F. Rockwell.....	557,287	Mar. 31	3232	775	74	1804
Bell. Bicycle.....	E. D. Rockwell.....	553,293	Jan. 21	1474	354	74	304
Bell. Bicycle.....	C. V. Zinn.....	563,834	July 14	1024	{ 242 243 }	76	207
Bell clamp. Bicycle.....	E. D. Rockwell.....	572,450	Dec. 1	644	151	77	1401
Bell clamp. Bicycle.....	F. A. Scranton.....	572,379	Dec. 1	538	127	77	1380
Bell. Door.....	G. W. Eddy.....	570,202	Oct. 27	2609	620	77	533
Bell. Door.....	W. H. Fauber.....	555,366	Feb. 25	2725	652	74	1073
Bell. Electric.....	F. Davey.....	568,668	Sept. 29	3427	820	76	1976
Bell. Electric.....	F. and H. F. Keil.....	560,506	May 19	2119	425	75	1140
Bell. Electric.....	C. B. Sterling.....	552,933	Jan. 14	837	203	74	171
Bell. Electric alarm.....	R. Segerdahl.....	570,508	Nov. 3	130	32	77	662
Bell. Electric call.....	F. C. Jordan.....	560,096	May 12	1388	312	75	958
Bell. Electric signal.....	C. E. Scribner.....	572,220	Dec. 1	221	54	77	1320
Bell-ringer.....	J. D. Sansom.....	553,429	Jan. 21	1696	404	74	345
Bell-ringing mechanism.....	J. H. Strain.....	565,306	Aug. 4	661	159	76	737
Bell. Signal.....	E. Olsen.....	571,013	Nov. 10	1070	250	77	866
Bell. Tubular.....	J. E. Treat.....	568,816	Oct. 6	175	42	77	35
Bells. Bridging.....	C. E. Scribner.....	563,318	July 7	148	35	76	31

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Belt.....	H. Bruning and E. Ross.....	557,962	Apr. 7	782	186	75	147
Belt.....	E. Cooper.....	554,478	Feb. 11	1211	282	74	745
Belt.....	H. B. Ireys.....	573,515	Dec. 22	2560	608	77	1816
Belt and garment holder.....	F. O. Brown.....	558,771	Apr. 21	2207	532	75	448
Belt and skirt attachment.....	M. Freund.....	560,489	May 19	2097	479	75	1137
Belt apparatus. Conveyer.....	T. Robins, Jr.....	571,604	Nov. 17	2079	499	77	1066
Belt-clasp.....	C. D. Saulez.....	554,799	Feb. 18	1755	413	74	865
Belt. Concentrator.....	W. F. Bowers.....	552,952	Jan. 14	867	210	74	176
Belt-coupling.....	H. S. Arntfield.....	555,064	Feb. 25	2248	537	74	971
Belt. Electric.....	G. N. Moore and R. C. MacCulloch.....	559,535	May 5	320	77	75	744
Belt. Electrogalvanic.....	A. Dow.....	561,975	June 16	1622	395	75	1722
Belt-fastener.....	B. F. Barnes.....	574,234	Dec. 29	3928	934	77	2083
Belt-fastener.....	F. R. Hamilton and C. H. Moore, Jr.....	568,848	Oct. 6	227	53	77	45
Belt-fastener.....	H. H. Jones.....	553,243	Jan. 21	1369	333	74	266
Belt-fastener.....	J. McDonald.....	562,643	June 23	2758	669	75	1949
Belt-fastener.....	C. E. Nellis.....	562,149	June 16	1924	468	75	1776
Belt-fastener.....	F. Tiemann.....	554,803	Feb. 18	1763	415	74	867
Belt-fastening.....	G. W. Southwick.....	562,747	June 23	2940	712	75	1984
Belt. Foot.....	J. W. Madden.....	571,488	Nov. 17	1877	448	77	1030
Belt-gearing. Device for throwing out of gear.....	L. Benditt.....	572,098	Dec. 1	7	2	77	1280
Belt. Garment-supporting.....	J. M. Flannery.....	561,577	June 9	928	221	75	1570
Belt-guide.....	N. Johnson and H. L. Hunt.....	571,923	Nov. 24	2664	631	77	1195
Belt-holder.....	F. E. Levanseler.....	565,473	Aug. 11	946	225	76	813
Belt-keeper.....	E. W. Davison.....	558,263	Apr. 14	1338	327	75	270
Belt-pin.....	G. P. Farmer.....	559,169	Apr. 28	2946	711	75	605
Belt polishing-frame.....	J. Longden.....	572,812	Dec. 8	1280	308	77	1541
Belt-shifter.....	J. B. Clyne.....	554,813	Feb. 18	1782	419	74	871
Belt-shifter.....	P. H. Pratt.....	555,735	Mar. 3	426	99	74	1206
Belt. Skirt-supporting.....	J. M. Flannery.....	561,576	June 9	927	221	75	1570
Belt-slide.....	M. Scheuer.....	567,692	Sept. 15	1671	402	76	1620
Belt-stretcher.....	G. M. Parsneau.....	553,788	Jan. 28	2310	548	74	476
Belt-stretching machine.....	A. Palencsar and T. Fischer.....	554,085	Feb. 4	521	116	74	600
Belt. Waist.....	J. F. Schotz.....	566,026	Aug. 25	3007	734	76	1237
Beltway.....	C. G. Hutchinson.....	558,180	Apr. 14	1190	290	75	242
Belts and pulleys. Means for increasing adhesion of.....	E. N. Wallis.....	566,637	Aug. 25	3019	738	76	1240
Belts and pulleys. Means for increasing adhesion of.....	E. N. Wallis.....	566,638	Aug. 25	3021	738	76	1240
Belts. Fastening device for waist.....	E. L. Logee.....	561,118	June 2	70	19	75	1380
Bench.....							
See Kneeling-bench. Work-bench.							
Organ-bench.....							
Bench-clamp.....	A. J. Cochran.....	557,972	Apr. 7	795	190	75	150
Bench-drill and lathe. Combined self-feeding.....	J. B. Taylor.....	559,003	Apr. 28	2611	636	75	542
Bending-machine.....	J. W. Abrahams.....	570,655	Nov. 3	448	105	77	722
Berth. Folding.....	P. Fraser.....	563,852	July 14	1063	251	76	214
Berth. Self-leveling ship's.....	J. Goodwin.....	567,708	Sept. 15	1699	408	76	1625
Berth-step.....	A. E. Crow.....	552,825	Jan. 7	613	149	74	115
Bevel and clamp. Frame.....	G. W. Green.....	562,524	June 23	2543	618	75	1909
Beveling-machine.....	H. M. Loud.....	564,435	July 21	2104	492	76	418
Beveling-machine attachment.....	V. Royle.....	563,886	July 14	1138	266	76	228
Beverage-freezer.....	J. H. McTague.....	556,432	Mar. 17	1741	404	74	1488
Beverage. Peptonized milk.....	A. Bernstein.....	552,681	Jan. 7	320	405	74	63
Beverages. Apparatus for carbonating and dispensing.....	P. E. Malmström.....	558,910	Apr. 21	2445	596	75	494
Beverages. Apparatus for carbonating fermented.....	J. Z. Formel.....	561,879	June 9	1459	352	75	1670
Bib.....	A. J. Birney.....	563,644	July 7	683	160	76	128
Bicycle.....	W. S. Bellows.....	567,936	Sept. 15	2078	500	76	1698
Bicycle.....	A. Benson.....	566,053	Aug. 18	2017	489	76	1034
Bicycle.....	C. C. Blood and F. W. Allan.....	556,398	Mar. 17	1667	389	74	1474
Bicycle.....	F. H. Bolte.....	571,941	Nov. 24	2692	637	77	1202
Bicycle.....	H. L. Boyle.....	556,802	Mar. 24	2368	557	74	1622
Bicycle.....	H. L. Boyle.....	566,838	Sept. 1	167	39	76	1314
Bicycle.....	S. E. Cleveland.....	565,880	Aug. 18	1706	418	76	971
Bicycle.....	W. E. Daniels.....	555,639	Mar. 3	270	64	74	1179
Bicycle.....	L. De Rome.....	571,302	Nov. 10	1567	372	77	960
Bicycle.....	C. G. Dieterich.....	559,368	May 5	31	8	75	686
Bicycle.....	S. A. Donnelly.....	553,453	Jan. 21	1727	412	74	351
Bicycle.....	A. Fay and J. McNab.....	567,824	Sept. 15	1901	455	76	1664
Bicycle.....	A. Fay and J. McNab.....	567,825	Sept. 15	1902	456	76	1664
Bicycle.....	J. H. Felthousen.....	561,214	June 2	243	58	75	1415
Bicycle.....	C. B. Fields.....	566,568	Aug. 25	2927	714	76	1221
Bicycle.....	J. Gillespie.....	573,779	Dec. 22	3032	718	77	1907
Bicycle.....	J. Goettel.....	569,636	Oct. 20	1609	379	77	335
Bicycle.....	R. Grilli.....	563,958	July 14	1272	298	76	252
Bicycle.....	G. E. Heaton.....	558,069	Apr. 14	1015	247	75	207
Bicycle.....	A. Jameson.....	565,542	Aug. 11	1092	263	76	839
Bicycle.....	F. Jensen.....	557,130	Mar. 31	2929	701	74	1753
Bicycle.....	L. Julig.....	559,102	Apr. 28	2786	675	75	575
Bicycle.....	A. Kent.....	559,943	May 12	1092	242	75	900
Bicycle.....	H. W. Lester.....	565,472	Aug. 11	945	225	76	812
Bicycle.....	W. A. Lorenz.....	572,208	Dec. 1	195	48, 49	77	1316
Bicycle.....	E. Y. MacKenzie.....	570,320	Oct. 27	2873	682	77	581
Bicycle.....	A. H. Mackinnon and S. M. Gage.....	566,201	Aug. 18	2269	554	76	1081
Bicycle.....	C. E. Martin.....	563,292	July 7	100	24	76	21
Bicycle.....	C. O. E. Matthern.....	559,299	Apr. 28	3183	769	75	648
Bicycle.....	J. W. McIntire.....	566,275	Aug. 18	2376	582	76	1101
Bicycle.....	T. W. McKenzie.....	567,494	Sept. 8	1337	323	76	1541

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Bicycle	T. S. Miller	570,179	Oct. 27	2572	611	77	526
Bicycle	C. C. Murray	565,556	Aug. 11	1119	270	76	843
Bicycle	J. J. Naregang	570,327	Oct. 27	2882	624	77	582
Bicycle	A. Pettinati	571,051	Nov. 10	1127	263	77	877
Bicycle	J. Rau	571,793	Nov. 24	2421	577	77	1151
Bicycle	J. C. Raymond	567,042	Sept. 1	549	198	76	1386
Bicycle	F. H. Richards	560,647	May 26	2420	553	75	1210
Bicycle	J. D. Riggs	571,397	Nov. 17	1720	409	77	1002
Bicycle	G. H. Sears	570,271	Oct. 27	2742	652	77	558
Bicycle	G. Seyfang	558,852	Apr. 21	2338	569	75	473
Bicycle	C. J. Seymour	566,027	Aug. 18	1983	480	76	1028
Bicycle	W. W. Shaw	571,983	Nov. 24	2761	652	77	1215
Bicycle	H. J. Thompson	569,394	Oct. 13	1167	277	77	239
Bicycle	J. Tullius	561,146	June 2	122	32	75	1390
Bicycle	A. Warren	571,029	Nov. 10	1093	255	77	870
Bicycle	J. S. Whiteley	562,446	June 23	2425	588	75	1886
Bicycle	V. Willis	573,316	Dec. 15	2184	521	77	1729
Bicycle	A. Winton	553,378	Jan. 21	1617	385	74	330
Bicycle	C. Young	567,628	Sept. 15	1562	376	76	1598
Bicycle	C. Young	567,631	Sept. 15	1570	377	76	1599
Bicycle, Aerial	H. B. Nickerson	563,793	July 14	949	225	76	194
Bicycle air-pump	W. H. Ostrander	554,084	Feb. 4	519	116	74	599
Bicycle-alarm	B. Arnold	569,158	Oct. 13	763	177	77	161
Bicycle-alarm	W. M. Brevard, W. B. Orr, and J. W. Sofge	563,838	July 14	1043	245	76	210
Bicycle-alarm	L. D. Craig	556,459	Mar. 17	1786	414	74	1496
Bicycle-alarm	R. E. Kelly	561,667	June 9	1072	259	75	1598
Bicycle-alarm	C. Swearingen and D. S. Lemen	573,555	Dec. 22	2630	625	77	1829
Bicycle alarm-lock	J. P. Daniels	571,083	Nov. 10	1193	280	77	889
Bicycle and tricycle	W. F. Williams	559,244	Apr. 28	3098	748	75	633
Bicycle and vehicle. Combined	J. Trancé-Armand	559,761	May 5	712	168	75	816
Bicycle attachment	A. H. Edgren and G. Elmen	561,545	June 2	866	208	75	1533
Bicycle attachment	J. C. Garvey	558,681	Apr. 21	2050	496	75	420
Bicycle attachment	R. Grilli	563,957	July 14	1271	297	76	251
Bicycle attachment	P. E. Hokanson and B. J. Dolphin	556,350	Mar. 17	1578	369	74	1457
Bicycle attachment	C. R. Howard	568,406	Sept. 29	2929	704	76	1824
Bicycle attachment	H. Leineweber	566,083	Aug. 18	2068	503	76	1042
Bicycle attachment	I. M. Lincoln	561,262	June 2	312	79	75	1429
Bicycle attachment	J. G. McNaughton	573,282	Dec. 15	2112	507	77	1717
Bicycle attachment	E. B. Pike	570,681	Nov. 3	491	115	77	730
Bicycle attachment	E. J. Taylor, M. M. Cochran, and S. Adams	555,271	Feb. 25	2613	612	74	1041
Bicycle attachment	A. H. Winner	559,652	May 5	518	119	75	781
Bicycle attachment for use on ice	A. J. Brace and E. Brown	557,956	Apr. 7	767	183	75	144
Bicycle baggage-support	D. Chamberlain	569,813	Oct. 20	1933	459	77	392
Bicycle ball-bearing	E. C. Howe	570,428	Oct. 27	3064	726	77	617
Bicycle ball-bearing	M. L. Wilcox	570,860	Nov. 3	801	184	77	787
Bicycle basket-carrier	L. S. Manning	558,879	Apr. 21	2391	583	75	483
Bicycle-bearing	H. E. and J. F. Dodge	567,851	Sept. 15	1949	467	76	1673
Bicycle-bearing	E. A. Green	572,003	Nov. 24	2795	659	77	1320
Bicycle bearing-bracket	E. L. Shultz	571,289	Nov. 10	1544	366	77	954
Bicycle-bearing cleaner	J. M. Lewis	563,601	July 7	617	144	76	116
Bicycle. Bevel-geared	J. Parker	561,516	June 2	804	196	75	1522
Bicycle-boat	R. L. Boulter	557,647	Apr. 7	927	55, 56	75	43
Bicycle-brake	C. F. Choate	559,996	May 12	1188	264	75	922
Bicycle-brake	E. J. De Bergue	567,949	Sept. 15	2103	507	76	1702
Bicycle-brake	E. S. Ellis	555,686	Mar. 3	346	79	74	1192
Bicycle-brake	R. C. Fay	553,339	Jan. 21	1548	370	74	317
Bicycle-brake	F. A. Gladwin	571,561	Nov. 17	2008	478	77	1053
Bicycle-brake	A. J. Haas	550,052	Mar. 10	1007	240	74	1336
Bicycle-brake	E. S. Hall	554,419	Feb. 11	1107	258	74	726
Bicycle-brake	T. V. Handloser	557,805	Apr. 7	508	122	75	96
Bicycle-brake	L. A. Larsen	561,594	June 9	957	229	75	1577
Bicycle-brake	J. W. Little	561,007	May 26	3043	700	75	1330
Bicycle-brake	S. Logan	567,650	Sept. 15	1605	386	76	1607
Bicycle-brake	J. H. Ransom	554,031	Feb. 4	421	92	74	582
Bicycle-brake	C. W. Terpening	572,137	Dec. 1	80	17	77	1293
Bicycle-brake	S. F. Wilcox	563,632	July 7	666	156	76	125
Bicycle-brake. Automatic	W. E. Elliott	554,416	Feb. 11	1104	257	74	725
Bicycle-brake. Automatic	L. H. Guertin	561,885	June 9	1465	354	75	1672
Bicycle bundle-carrier	L. Ross	558,567	Apr. 21	1862	452	75	384
Bicycle-canopy	A. A. Bennitt	574,235	Dec. 29	3929	935	77	2083
Bicycle-canopy	G. C. Ormerod	562,091	June 16	1836	446	75	1759
Bicycle-canopy	J. Reid	557,605	Apr. 7	131	34	75	26
Bicycle-canopy	J. T. B. Van Vechten	572,843	Dec. 8	1326	319	77	1550
Bicycle-canopy. Folding	J. Kaufman	570,285	Oct. 27	2765	658	77	562
Bicycle-carrier	H. D. Cahill	573,502	Dec. 22	2543	602	77	1813
Bicycle carrying attachment	F. B. Finley	568,085	Sept. 22	2387	576	76	1767
Bicycle. Chainless change-gear	J. C. Pratt	573,102	Dec. 15	1785	429	77	1657
Bicycle change-gearing	V. Bélanger	568,154	Sept. 22	2507	603	76	1790
Bicycle-cleaning stand	C. A. Wright	556,076	Mar. 10	1053	251	74	1344
Bicycle. Combined single and tandem	C. E. Brennan	569,705	Oct. 20	1752	416	77	359
Bicycle-connecting device	M. C. Geldowsky	557,309	Mar. 31	3263	722	74	1810
Bicycle costume	J. Silberman	573,168	Dec. 15	1896	456	77	1678

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Bicycle-coupling	U. S. Eells	565,443	Aug. 11	884	209	76	800
Bicycle-coupling device	T. S. Taylor	556,168	Mar. 10	1221	285	74	1375
Bicycle-crank	A. A. Unruh	563,521	July 14	997	237	76	203
Bicycle crank-axle	F. J. Grodavent	566,906	Sept. 1	290	67	76	1338
Bicycle crank-axle mechanism	S. P. Watt	559,828	May 12	863	192	75	858
Bicycle-crank attachment	A. T. Bascom	558,463	Apr. 14	1683	405	75	335
Bicycle-crank. Extensible	S. Ayers	561,553	June 9	885	212 213	75	1562
Bicycle crank-hanger bearing	E. Aze	573,634	Dec. 22	2792	660	77	1863
Bicycle crank-shaft	L. Sr., and C. O. Barnes	563,729	July 14	839	200	76	173
Bicycle crank-shaft and bearing	R. M. Keating	568,767	Oct. 6	97	23	77	21
Bicycle crank-shaft and crank-shaft bearing	H. E. Stahl	563,211	June 30	3797	910	75	2168
Bicycle crown-forging	L. B. Gaylor	561,987	June 16	1643	400	75	1725
Bicycle differential gear	W. G. Stolz and C. G. Eshelman	557,242	Mar. 31	3154	756	74	1789
Bicycle driving-gear	J. Tullius	561,145	June 2	119	32	75	1390
Bicycle driving-gear	W. W. Whitcomb	572,038	Nov. 24	2851	671	77	1231
Bicycle driving mechanism	G. Beekman	553,826	Feb. 4	8	3	74	506
Bicycle driving mechanism	S. F. Clouser	562,580	June 23	2656	643	75	1930
Bicycle driving mechanism	A. Dubreuil	555,684	Mar. 3	343	79	74	1191
Bicycle driving mechanism	J. P. Hallenbeck	555,242	Feb. 25	2560	602	74	1031
Bicycle driving mechanism	J. B. Sinclair, Jr.	572,729	Dec. 8	1139	275	77	1514
Bicycle-dynamos. Driving mechanism for	G. Mayr	553,035	Jan. 14	992	241	74	200
Bicycle-fitting	J. G. Ziegler	558,545	Apr. 21	1819	443	75	378
Bicycle. Folding	M. B. Ryan	569,354	Oct. 13	1105	262	77	228
Bicycle foot-rest and clamp	F. C. Durant	567,967	Sept. 22	2143	516	76	1723
Bicycle-frame	L. Sr., and C. O. Barnes	563,728	July 14	838	199	76	172
Bicycle-frame	C. L. Houghton	566,861	Sept. 1	214	49	76	1323
Bicycle-frame	R. M. Keating	559,178	Apr. 28	2961	715	75	606
Bicycle-frame	J. G. Leyner	564,627	July 28	2441	574	76	498
Bicycle-frame	A. J. Oberg and A. W. Gustafson	565,783	Aug. 11	1527	372	76	920
Bicycle-frame	A. Sidwell	571,406	Nov. 17	1732	413	77	1004
Bicycle-frame	C. E. Tomlinson	554,465	Feb. 11	1192	277	74	742
Bicycle-frame	S. M. Williams	567,430	Sept. 8	1235	297	76	1522
Bicycle-frame attachment	C. M. Brooks	570,536	Nov. 3	180	48	77	671
Bicycle-frame. Folding	S. Hubbell	561,665	June 9	1070	258	75	1597
Bicycle-frames. Joint for members of	W. A. Newfield	573,695	Dec. 22	2899	685	77	1882
Bicycle-gear	J. Clough and R. Illingworth	569,706	Oct. 20	1754	416 417	77	359
Bicycle-gear attachment	C. L. Cunningham	559,934	May 12	1076	239 240	75	898
Bicycle-gear. Device for changing	J. Redding	572,828	Dec. 8	1306	313	77	1546
Bicycle. Geared	F. H. Richards	562,662	June 23	2786	677	75	1951
Bicycle-gearing	A. Monkiewicz	573,230	Dec. 15	2016	483 484	77	1699
Bicycle-gearing	A. F. Price	570,052	Oct. 27	2333	553	77	480
Bicycle-gearing	P. N. Stover	564,948	July 28	2992	712 713	76	598
Bicycle-gearing	S. A. White	555,274	Feb. 25	2618	614	74	1042
Bicycle-gearing. Changeable	F. A. Rich	555,886	Mar. 3	677	163 164	74	1255
Bicycle-habit	H. W. Rood	553,690	Jan. 28	2150	509	74	444
Bicycle-handle	B. C. Leonard	561,329	June 2	466	116	75	1460
Bicycle-handle	J. C. Spiegel	572,226	Dec. 1	238	57	77	1324
Bicycle-handle	C. O. Spurr	569,436	Oct. 13	1237	290	77	250
Bicycle-handle. Adjustable	J. F. Brunner and E. J. Laufer	556,958	Mar. 24	2627	617	74	1670
Bicycle-handle. Adjustable	O. S. Erb	566,068	Aug. 18	2044	498	76	1038
Bicycle-handle and bell-ringer	H. U. Prindle and E. T. Lampton	571,394	Nov. 17	1715	408	77	1001
Bicycle handle-bar	D. S. Hitchcock	566,581	Aug. 25	2946	719	76	1225
Bicycle handle-bar	S. O. Johnson	560,998	May 26	3025	697	75	1326
Bicycle handle-bar	T. H. McQuown	570,560	Nov. 3	239	60	77	682
Bicycle handle-bar	B. Porter	566,794	Sept. 1	97	24	76	1298
Bicycle handle-bar	F. C. Rockwell	570,187	Oct. 27	2583	613	77	528
Bicycle handle-bar	V. E. Rumbarger	553,178	Jan. 14	1260	305	74	250
Bicycle handle-bar	V. E. Rumbarger	564,108	July 14	1541	362	76	303
Bicycle handle-bar	R. M. Snyder	567,663	Sept. 15	1627	392	76	1612
Bicycle handle-bar	P. W. Stevens	564,848	July 28	2809	669 670	76	564
Bicycle handle-bar. Adjustable	B. Porter	569,349	Oct. 13	1098	260	77	226
Bicycle handle-bar and attachment	C. G. Dieterich and J. Boulton	555,150	Feb. 25	2403	570	74	1002
Bicycle handle-bar and handle-bar-stem attachment	L. Sr., and C. O. Barnes	563,082	Sept. 22	2384	575	76	1766
Bicycle handle-bar attachment	H. A. Harshaw	558,019	Apr. 7	912	228	75	171
Bicycle handle-bar connection	M. J. Fisher	560,700	May 26	2513	577	75	1229
Bicycle handle-bar. Whistling	A. H. Koehler	573,666	Dec. 22	2856	673	77	1873
Bicycle handle-bars. Removable cover for	E. M. and R. F. Spamer	571,025	Nov. 10	1087	254	77	869
Bicycle-handle shield	D. F. Gorman	568,024	Sept. 22	2263	547	76	1744
Bicycle-holder	J. J. McKanna	554,454	Feb. 11	1172	273	74	738
Bicycle-holder	L. K. Miller	574,253	Dec. 29	3954	940	77	2088
Bicycle-holder	A. E. Putnam	572,770	Dec. 8	1207	292	77	1526
Bicycle-holder	C. J. Ryder	573,032	Dec. 15	1667	400	77	1635
Bicycle-hub	W. R. Fox	572,976	Dec. 15	1570	376	77	1615
Bicycle-hub	J. R. Kennedy	564,697	July 28	2548	602	76	519
Bicycle-hub	J. R. Kennedy	564,698	July 28	2549	603	76	519
Bicycle-hub. Self-oiling	O. Kraus	553,621	Jan. 28	2034	481	74	421
Bicycle ice creeper	W. T. S. Morrison	560,859	May 26	2797	642	75	1224
Bicycle-lamp bracket	W. S. Nokes	567,157	Sept. 8	759	177	76	1437
Bicycle-lamp bracket	C. F. Walker	570,240	Oct. 27	2685	638	77	547
Bicycle-lamp bracket	J. H. Whittington	568,649	Sept. 29	3392	812	76	1969
Bicycle-lamp holder	F. Rhind	555,183	Feb. 25	2456	582	74	1012
Bicycle-lamp holder	F. Rhind, S. G. Stoddard, and G. W. Baldwin	559,951	May 12	1103	246	75	902
Bicycle-lantern bracket	A. A. Bevin and J. C. Wells	568,328	Sept. 29	2797	673	76	1860
Bicycle-lantern bracket	G. F. Woodman	552,669	Apr. 21	2038	491	75	416
Bicycle-leg	H. Otto	571,979	Nov. 24	2757	650	77	1214
Bicycle-lock	H. T. Adams	558,467	Apr. 21	1699	411	75	355

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Bicycle-lock	J. M. Akers	565,658	Aug. 11	1307	316	76	878
Bicycle-lock	J. Askins	556,240	Mar. 10	1347	317	74	1398
Bicycle-lock	E. C. Bailey and W. S. Pond	562,880	June 30	3200	774	75	2050
Bicycle-lock	T. Carroll	567,807	Sept. 15	1868	447	76	1657
Bicycle-lock	L. H. Clark and E. A. Munger	568,743	Oct. 6	50	12	77	13
Bicycle-lock	M. N. Frederick	565,161	Aug. 4	394	92	76	690
Bicycle-lock	J. C. Gregory	556,050	Mar. 10	1005	240	74	1336
Bicycle-lock	G. H. Gunderson	565,537	Aug. 11	1087	261	76	837
Bicycle-lock	J. W. Hellwig	572,798	Dec. 8	1256	{ 303 304 }	77	1536
Bicycle-lock	G. R. Hillhouse	554,222	Feb. 4	754	172	74	643
Bicycle-lock	F. J. Hoyt	560,355	May 19	1860	424	75	1094
Bicycle-lock	S. G. Kell	564,623	July 28	2435	573	76	497
Bicycle-lock	C. G. Morgner	563,396	July 7	269	60	76	54
Bicycle-lock	A. W. Nutz	565,762	Aug. 11	1526	372	76	920
Bicycle-lock	E. A. Parson	555,878	Mar. 3	664	{ 158 159 }	74	1251
Bicycle-lock	S. H. Patterson	557,223	Mar. 31	3107	745	74	1781
Bicycle-lock	A. L. Ruff	568,372	Sept. 29	2872	690	76	1874
Bicycle-lock	G. M. Poe and W. C. Slatts	558,981	Apr. 28	2575	626	75	535
Bicycle-lock	E. L. Thomas and B. B. Forbes	563,991	July 14	1325	309	76	261
Bicycle-lock	J. E. Turton	570,521	Nov. 3	151	37	77	666
Bicycle-lock	C. B. Woodbury	569,594	Oct. 13	1529	359	77	304
Bicycle-lock. Keyless	J. A. Folsom	555,477	Feb. 25	2991	717	74	1111
Bicycle-locking device	B. W. Anderson	561,070	May 26	3143	726	75	1349
Bicycle-lubricator. Automatic	F. Della Torre	566,147	Aug. 18	2184	531	76	1063
Bicycle. Military	T. V. Handloser	553,614	Jan. 28	2023	479	74	422
Bicycle mud-guard	C. M. Hitchcock	574,032	Dec. 29	3507	838	77	2007
Bicycle mud-guard	H. E. Williams and E. S. Caywood	552,567	Jan. 7	109	31	74	23
Bicycle motor attachment	I. H. Davis	568,164	Sept. 22	2519	607	76	1791
Bicycle motor-governor	O. F. Jarvis	557,823	Apr. 7	536	128	75	101
Bicycle or like vehicle	C. L. Travis	564,319	July 21	1904	{ 449 450 }	76	383
Bicycle or like vehicle	C. L. Travis	564,546	July 21	2275	534	76	449
Bicycle or other vehicle coupling	E. S. Keeler	573,469	Dec. 22	2488	590	77	1803
Bicycle or tricycle wheel	A. J. Wolff	559,654	May 5	520	120	75	782
Bicycle or velocipede pedal	W. Grotho	563,959	July 14	1274	299	76	252
Bicycle package-carrier	G. J. Hise	571,132	Nov. 10	1295	301	77	907
Bicycle package-carrier	A. L. Peirce	567,159	Sept. 8	762	178	76	1438
Bicycle-parasol and support. Adjustable.	F. C. Ruffhead and E. J. Scheer	555,025	Feb. 18	2168	516	74	941
Bicycle-pedal	G. I. Black and L. B. Gaylor	564,301	July 21	1870	438	76	376
Bicycle-pedal	A. B. Curtis	555,933	Mar. 10	769	185	74	1293
Bicycle-pedal	S. O. Jones	559,3-5	May 5	60	13	75	692
Bicycle-pedal	J. P. Lavigne	564,431	July 21	2099	491	76	417
Bicycle-pedal	C. Otis	565,788	Aug. 11	1535	374	76	921
Bicycle-pedal	F. D. Owen	553,685	Jan. 28	2142	507	74	443
Bicycle-pedal attachment	A. T. Bascom	558,464	Apr. 14	1685	405	75	336
Bicycle-pedal clamp	G. C. Sherman	562,558	June 30	3157	765	75	2042
Bicycle-pedal clip	J. E. Stannard	570,778	Nov. 3	656	150	77	759
Bicycle-pedal foot-holder	L. L. Haworth	558,068	Apr. 14	1014	247	75	207
Bicycle-pedal toe-clip	A. A. Bailey	553,638	Jan. 28	2061	487	74	429
Bicycle-pedal toe-clip	J. W. Shone and R. J. Hanna	559,225	Apr. 28	3068	741	75	628
Bicycle-pedal tread	I. W. Litchfield and T. W. Sanford	558,400	Apr. 14	1561	381	75	311
Bicycle-pedal. Vacuum-cup	E. T. Harris and A. S. Reed	554,686	Feb. 18	1572	370	74	831
Bicycle-post fastening	F. I. Johnson	570,309	Oct. 27	2854	677	77	578
Bicycle power mechanism	A. Brauer	571,469	Nov. 17	1841	439	77	1024
Bicycle-propelling mechanism	T. J. Armstrong	572,398	Dec. 1	566	134	77	1386
Bicycle-propelling mechanism	E. N. Heath	557,676	Apr. 7	274	66	75	52
Bicycle-pump	J. F. Braun	564,736	July 28	2617	634	76	531
Bicycle pump	L. N. Petitpain	558,837	Apr. 21	2314	564	75	468
Bicycle pump attachment	L. G. Spencer	559,418	May 5	131	28	75	706
Bicycle pump. Automatic	J. K. Tomlinson	561,628	June 9	1013	243	75	1587
Bicycle-rack	H. Westphal	565,057	Aug. 4	159	37	76	647
Bicycle-rack	H. Westphal	573,171	Dec. 15	1903	458	77	1679
Bicycle-rack	G. D. Young	557,470	Mar. 31	3541	846	74	1864
Bicycle rack or stand	H. Westphal	565,058	Aug. 4	162	38	76	647
Bicycle-rest	H. H. Covert	563,570	July 7	374	132	76	107
Bicycle-rest	L. Smith	571,700	Nov. 17	2236	538	77	1096
Bicycle-rest	S. E. Spencer	572,664	Dec. 8	1010	{ 244 245 }	77	1491
Bicycle-rest	L. B. Thomson and W. Burke	560,178	May 12	1529	345	75	983
Bicycle-rest. Adjustable.	F. Kampf	558,815	Apr. 21	2282	554	75	462
Bicycle rest or support	J. M. Gaston	559,698	May 5	585	138	75	793
Bicycle-riders. Trick-platform for	C. M. Peck	564,392	July 21	2031	477	76	406
Bicycle riding-habit	M. Diamond	564,822	July 28	2766	658	76	556
Bicycle-rims. Joint for wooden	J. E. Carr	557,967	Apr. 7	789	178	75	149
Bicycle-saddle	R. O. Barler	567,634	Sept. 15	1575	379	76	1601
Bicycle-saddle	E. C. Bratlett	560,963	May 26	2977	{ 683 684 }	75	1317
Bicycle-saddle	S. J. Brown	556,250	Mar. 10	1366	321	74	1401
Bicycle-saddle	A. Dodds and C. D. Thomson	554,337	Feb. 11	965	223	74	698
Bicycle-saddle	F. Douglas	554,662	Feb. 18	1531	362	74	822
Bicycle-saddle	A. C. Drury and G. E. Sims	569,326	Oct. 13	1057	251	77	218
Bicycle-saddle	F. F. Drury	566,669	Aug. 25	3069	749	76	1248
Bicycle-saddle	A. L. Garford	568,973	Oct. 6	439	98	77	85
Bicycle-saddle	A. L. Garford	568,974	Oct. 6	441	98	77	85
Bicycle-saddle	A. L. Garford	571,113	Nov. 10	1258	292	77	900
Bicycle-saddle	F. E. Granger	558,917	Apr. 21	2465	600	75	496
Bicycle-saddle	M. F. Henderson	572,163	Dec. 1	123	29	77	1301
Bicycle-saddle	M. F. Henderson	572,164	Dec. 1	124	29	77	1301
Bicycle-saddle	C. F. Lefever	571,379	Nov. 17	1695	404	77	996
Bicycle-saddle	J. A. Maloney	572,432	Dec. 1	615	146	77	1395
Bicycle-saddle	S. L. Myers	569,796	Oct. 20	1908	453	77	387
Bicycle-saddle	C. E. Page	571,388	Nov. 17	1708	406	77	999

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Bicycle-saddle	A. E. Peck	572,062	Nov. 24	2298	684	77	1240
Bicycle-saddle	G. L. Pierce and J. E. Parks	568,626	Sept. 20	3344	801	76	1960
Bicycle-saddle	J. H. Sager	566,344	Aug. 25	2508	615	76	1142
Bicycle-saddle	B. S. Seaman	557,238	Mar. 31	3142	754	74	1787
Bicycle-saddle	B. S. Seaman	566,477	Aug. 25	2798	680	76	1196
Bicycle-saddle	B. S. Seaman	566,478	Aug. 25	2799	681	76	1196
Bicycle-saddle	W. W. Shoo	558,217	Apr. 14	1256	306	75	255
Bicycle-saddle	W. W. Shoo	558,218	Apr. 14	1257	306	75	255
Bicycle-saddle	E. Strakosch	569,981	Oct. 20	2214	526	77	444
Bicycle-saddle clamp	D. S. Hitchcock	566,517	Aug. 25	2858	694	76	1208
Bicycle-saddle cushion	J. H. Sager	562,919	June 30	3260	787	75	2063
Bicycle-saddle post	H. Serrell	562,203	June 16	2016	487	75	1794
Bicycle-saddles. Means for attaching	B. S. Seaman	568,802	Oct. 6	154	36	77	31
Bicycle screen. Lady's	T. R. Cherry	557,488	Mar. 31	3581	857	74	1871
Bicycle-seat	C. H. Clark	568,474	S-pt. 29	3044	731	76	1905
Bicycle-seat	R. E. Helmore	568,977	Oct. 6	444	99	77	86
Bicycle-seat	F. B. Ray	574,342	Dec. 29	4105	975	77	2117
Bicycle-seat	S. D. Van Meter	556,448	Mar. 17	1764	410	74	1493
Bicycle-seat back-support	W. E. Prall	553,722	Jan. 28	2211	524	74	456
Bicycle-seat-spring	T. Sather	561,440	June 2	678	166	75	1498
Bicycle-seat support	C. H. Watson	568,593	Sept. 29	3226	789	76	1948
Bicycle snow-shoe attachment	E. A. Peterson	573,034	Dec. 15	1660	399	77	1634
Bicycle speed-gear	J. P. Steffens	571,890	Nov. 24	2595	616	77	1182
Bicycle speed-indicator	J. C. G. Bonney	555,492	Mar. 3	13	4	74	1133
Bicycle spoke-nipples. Machine for finishing.	C. E. Roberts	572,376	Dec. 1	532	124 125 126	77	1379
Bicycle-spokes, wire, or other like articles. Machinery for manufacturing	C. C. Hill	562,825	June 30	3096	750	75	2030
Bicycle spring-motor	C. Young	567,629	Sept. 15	1563	377	76	1598
Bicycle spring-motor	C. Young	567,630	Sept. 15	1566	377	76	1598
Bicycle spring seat post	H. K. Brooks	559,841	May 12	896	199	75	865
Bicycle sprocket-wheel	E. F. Rau	560,929	May 26	2929	672	75	1306
Bicycle-stand	I. I. Fonda	562,520	June 23	2537	616	75	1907
Bicycle-stand	F. Giacinto	569,493	Oct. 13	1327	312	77	266
Bicycle-stand	W. H. Hart, Jr.	564,787	July 23	2711	644	76	547
Bicycle-stand	O. Seely	559,312	Apr. 28	3201	774	75	652
Bicycle stand-brace	S. A. Darrach	568,667	Sept. 29	3426	810	76	1976
Bicycle-stand. Movable	H. N. Timms	563,819	July 14	995	237	76	202
Bicycle-stand. Movable	H. N. Timms	568,053	Sept. 22	2322	561	76	1753
Bicycle-stand. Portable	E. L. Peisar	573,482	Dec. 22	2507	594	77	1606
Bicycle steering-gear	A. F. Boardman	565,718	Aug. 11	1413	344	76	899
Bicycle-step	J. M. Keen	561,001	May 26	3030	698	75	1327
Bicycle-suit	A. C. Nash	570,676	Nov. 3	480	113	77	728
Bicycle-sunshade	G. A. Conklin	561,767	June 9	1265	301	75	1635
Bicycle-support	D. W. Albright	564,134	July 14	1583	371	76	312
Bicycle-support	A. J. Branham	570,659	Nov. 3	453	107	77	723
Bicycle-support	S. A. Brown	562,278	June 16	2135	519	75	1815
Bicycle-support	G. W. Cross	557,191	Mar. 31	3045	729	71	1771
Bicycle-support	Z. J. Dille and H. J. Hayes	570,464	Nov. 3	39	9	77	646
Bicycle-support	N. A. Eddy	557,567	Apr. 7	74	19	75	15
Bicycle-support	E. Farnsworth	571,433	Nov. 17	1721	425	77	1013
Bicycle-support	W. K. Flatt	566,071	Aug. 18	2049	499	76	1039
Bicycle-support	F. Giacinto	555,285	Feb. 25	2647	620	74	1047
Bicycle-support	J. A. Hirsch	567,980	Sept. 22	2168	522	76	1727
Bicycle-support	R. Holmes	563,927	July 14	1213	284	76	241
Bicycle-support	H. G. Kennedy	568,855	Oct. 6	246	57	77	48
Bicycle-support	E. A. Lefebvre, Jr.	556,758	Mar. 24	2297	540	74	1608
Bicycle-support	A. Lucas	567,025	Sept. 1	531	125	76	1382
Bicycle-support	J. S. Lynch	569,289	Oct. 13	9-5	236	77	203
Bicycle-support	A. G. Olk	574,106	Dec. 29	3645	871	77	2033
Bicycle-support	A. J. Polk	558,103	Apr. 14	1068	262	75	219
Bicycle-support	F. C. Ruffhead and E. J. Scheer	555,024	Feb. 18	2166	516	74	941
Bicycle-support	W. J. Smart	562,669	June 23	2799	680	75	1956
Bicycle-support	F. B. Steele	562,861	June 30	3161	766	75	2042
Bicycle-support	D. C. Wallace	574,292	Dec. 29	4021	955	77	2101
Bicycle-support	R. G. Wells	567,015	Sept. 1	499	117 118	76	1376
Bicycle-support	F. J. Werneth	559,646	May 5	507	116	75	779
Bicycle-support. Locking	A. C. Saxton	566,023	Aug. 18	1977	479	76	1027
Bicycle-supporting apparatus	L. Malone	560,141	May 12	1460	328 329	75	972
Bicycle-supporting frame	E. C. Waterman	567,625	Sept. 15	1555	375	76	1597
Bicycle-supporting post	R. F. W. Beardsley	594,142	July 14	1595	373	76	314
Bicycle-supporting stand	W. N. Beardsley	564,733	July 28	2613	623	76	530
Bicycle-supporting stand	J. L. Benton	573,811	Dec. 22	3088	734	77	1917
Bicycle-tandem attachment	M. Jakobson	552,907	Jan. 14	791	191	74	161
Bicycle-tender	J. E. Power	566,535	Aug. 25	2882	701	76	1212
Bicycle toe-clip	G. W. Cole	560,392	May 19	1930	441	75	1106
Bicycle toe-clip	E. A. Thiem	574,286	Dec. 29	4015	953	77	2100
Bicycle-tool	R. C. Fawcett	568,404	Sept. 29	2925	704	76	1883
Bicycle tool-box	L. E. Hudson	572,993	Dec. 15	1593	382	77	1620
Bicycle tool-box and seat	F. Whitney	563,526	July 7	496	115	76	94
Bicycle-trainer	F. B. Ray	574,167	Dec. 29	3762	898	77	2055
Bicycle-trainer	H. S. Robinson	562,198	June 16	2008	486	75	1793
Bicycle-training device	C. W. Fox	560,061	May 12	1315	295	75	944
Bicycle training device	W. Webber	553,373	Jan. 21	1610	344	74	329
Bicycle training device	W. Webber	554,754	Feb. 18	1679	396	74	851
Bicycle-tubing. Machine for cutting	W. R. Fox	570,850	Nov. 3	786	120	77	785
Bicycle. Two-side-seated	A. S. Weaver. (Reissue)	11,561	Aug. 4	841	198	76	773
Bicycle umbrella attachment	E. M. Battenberg	560,077	May 12	1346	302	75	949
Bicycle umbrella attachment	M. A. Hicks	572,298	Dec. 1	370	88	77	1350
Bicycle umbrella-holder	W. R. McDonald	558,296	Apr. 14	1384	338	75	279

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Bicycle-valve cap	D. Basch	565,825	Aug. 11	1598	391	76	933
Bicycle. Variable-speed geared	F. H. Richards	568,581	Sept. 29	3252	783	76	1943
Bicycle-wheel	H. Broers	552,984	Jan. 14	920	223	74	186
Bicycle-wheel	R. C. Fay	570,250	Oct. 27	2698	642	77	549
Bicycle-wheel	G. Hayes	572,892	Dec. 8	1393	337	77	1564
Bicycle-wheel	A. P. Le Gros	567,835	Sept. 15	1920	460	76	1668
Bicycle-wheel	H. W. Libbey	560,509	May 19	2123	486	75	1141
Bicycle-wheel	H. F. Moore	568,035	Sept. 22	2280	552	76	1747
Bicycle-wheel	E. Neild	574,105	Dec. 29	3639	869	77	2032
Bicycle-wheel and chain guard	B. F. Stauber	553,436	Jan. 21	1706	407	74	347
Bicycle-wheel rims. Manufacture of	C. E. Hadley	557,267	Mar. 31	3193	766	74	1796
Bicycle-wheel runner	M. A. Smith	557,520	Mar. 31	3640	872	74	1882
Bicycle-wrench	C. D. Chatterton	565,067	Aug. 4	178	42, 43	76	650
Bicycles. Adjustable handle-bar for	G. K. Kelsea	564,625	July 28	2439	573	76	497
Bicycles. Adjustable handle-bar for	M. B. Ryan	564,536	July 21	2262	531	76	447
Bicycles. Adjustable handle for	B. Wood	567,433	Sept. 8	1242	299	76	1523
Bicycles. Adjustable mirror for	P. S. Kingsland	567,243	Sept. 8	885	212	76	1460
Bicycles. Adjustable support or rest for	F. Ryan	564,454	July 21	2131	498	76	423
Bicycles. Automatic air-pump for	G. Woolley	573,378	Dec. 15	2284	544	77	1748
Bicycles. Auxiliary seat and parcel-carrier for	W. A. Osborn	556,552	Mar. 17	1954	456	74	1527
Bicycles. Ball-bearing for	M. E. Blood	560,187	May 19	1349	350	75	1040
Bicycles, &c. Brake for	C. T. Brown	569,005	Oct. 6	502	113	77	96
Bicycles. Change-speed gearing for	W. J. Fitzgerald	563,759	July 14	889	212	76	182
Bicycles. Child's seat for	J. Munden	559,784	May 5	747	180	75	823
Bicycles. Child's seat for	W. G. Bristow	558,010	Apr. 7	892	224	75	167
Bicycles. Child's seat for	W. F. Locke	557,841	Apr. 7	566	136	75	107
Bicycles. Combined support and keeper for	C. D. Williams and J. H. Elliott	556,951	Mar. 24	2612	614	74	1667
Bicycles. Combined wrench and lock for	O. M. Shannon	557,900	Apr. 7	657	158	75	124
Bicycles, &c. Crank-shaft and bearing for	C. M. Herr	556,976	Mar. 24	2659	624	74	1677
Bicycles. Electric-lamp holder for	R. M. Keating	568,768	Oct. 6	98	23	77	21
Bicycles. Mechanical movement for	E. D. Rockwell	554,459	Feb. 11	1181	275	74	739
Bicycles. Mud and dirt protector and screen for	H. Tuttle	564,665	July 28	2493	589	76	509
Bicycles, &c. Pedal-crank for	J. H. Fletcher, C. O. Kimball, and A. C. Clark	558,938	Apr. 28	2503	607	75	520
Bicycles, &c. Propelling mechanism for	W. J. Valentine	573,055	Dec. 15	1704	408	77	1642
Bicycles. Rear-fork end for	T. Kerker	565,904	Aug. 18	1740	427	76	977
Bicycles. Sliding saddle-support for	F. D. Owen	553,313	Jan. 21	1504	361	74	309
Bicycles, &c. Steering-fork for	O. Peterson	572,273	Dec. 1	321	77	77	1340
Bicycles. Wall attachment for supporting	A. W. Lotz and J. Huzelstein	556,010	Mar. 10	919	219	74	1321
Bilge-water-discharging apparatus	Z. J. Dilley and H. J. Hayes	570,465	Nov. 3	41	10	77	646
Bill holder. Shipping	N. Power	558,912	Apr. 21	2447	597	75	494
Billet-loop	C. A. O. Haarvig	560,353	May 19	1858	423	75	1093
Billiard and pool table	C. Rozell	571,689	Nov. 17	2212	533	77	1091
Billiard-chalk holder	S. de Gaetano	562,818	June 30	3082	746	75	2027
Billiard-chalk holder	J. W. Currier	561,659	June 9	1061	256	75	1595
Billiard-cue	F. V. Noyes	563,403	July 7	282	64	76	56
Billiard-cue chalk apparatus	V. Ajello	573,845	Dec. 29	3153	752	77	1945
Billiard-cue locking device and rack	H. Liebreich	554,625	Feb. 11	1472	344	74	794
Billiard-cue tip	A. Nelson	559,193	Apr. 28	2991	722	75	615
Billiard-cue-tip clamp	P. A. Cuenot	570,006	Oct. 27	2263	538	77	466
Billiard-cue-tip fastener	F. B. Purdy	562,973	June 30	3380	813	75	2090
Billiard-cue-tip fastener	S. P. Davis and C. E. Young	566,504	Aug. 25	2836	690	76	1202
Billiard-cushion. Pneumatic	W. Wohele	563,537	July 7	510	118	76	97
Billiard-table	H. A. Bierley	558,892	Apr. 21	2415	588	75	458
Billiard-table	P. M. Cunningham	553,185	Jan. 14	1271	307	74	252
Billiard-table	A. C. Ives	572,545	Dec. 8	797	191	77	1445
Billiard-table cushion	W. and E. Mumbrauer	560,739	May 26	2571	592	75	1240
Billiard-table cushion	W. F. Dunn	562,514	June 23	2526	613	75	1906
Billiard-table cushion	J. N. McIntire	560,170	May 12	1513	342	75	981
Billiard-table cushion	J. N. McIntire	561,911	June 9	1511	366	75	1680
Billiard-table cushion	W. J. Rodd	569,519	Oct. 13	1383	326	77	277
Billiard-table. Pocket	P. M. Cunningham	559,790	May 5	758	183	75	825
Billiard-table. Pocket	P. M. Cunningham	573,262	Dec. 15	2064	494	77	1708
Billiard-table register	J. Stich	556,071	Mar. 10	1044	249	74	1342
Billiard-tables. Means for lighting	F. Gallsworthy	574,027	Dec. 29	3499	836	77	2006
Bin: See Feed-holding bin. Flour and meal bin. Flour-bin.							
Bin	R. M. Bixby	561,644	June 9	1037	250	75	1591
Binder	J. H. Brunner	573,201	Dec. 15	1964	473	77	1690
Binder	W. F. Fowler	571,998	Nov. 24	2788	657	77	1219
Binder	R. Hildebrandt	570,399	Oct. 27	3014	714	77	607
Binder and sheets therefor	R. J. Copeland and H. E. Dade	555,930	Mar. 10	763	184	74	1292
Binder. Bank-note	J. T. Hough and H. Reiber	561,889	June 9	1483	337	75	1675
Binder for index-files. Adjustable	F. W. Briggs	568,734	Oct. 6	30	7	77	8
Binder for loose sheets of paper	O. Assmann	561,932	June 9	1544	373	75	1687
Binder or file. Temporary	A. Weller	562,054	June 16	1760	426	75	1747
Binder. Self	J. F. Appleby	552,503	Jan. 7	3	1, 2	74	3
Binder. Shock	W. H. H. Heydrick	567,329	Sept. 8	1175	281	76	1511
Binder. Temporary	F. A. Bradley	564,819	July 28	2762	657	76	555
Binder. Temporary	L. H. Clark	570,541	Nov. 3	192	51	77	673
Binder. Temporary	T. Faifer	557,788	Apr. 7	479	114	75	91
Binder. Temporary	E. S. Glover	556,816	Mar. 24	2395	563	74	1626
Binder. Temporary	J. A. Roberts	564,650	July 28	2475	584	76	505
Binder. Temporary	J. R. Vail	561,928	June 9	1537	372	75	1685
Binder. Temporary	J. W. Wood	563,636	July 7	672	157	76	126
Binders. Motion-regulator for self	D. H. Lund	558,191	Apr. 14	1207	294	75	245
Binding edges with sheet metal. Machine for	J. Schreiber	554,839	Feb. 18	1830	429, 430	74	881
Binding implement	C. E. Allshouse	563,542	July 7	517	119, 120	76	98
Binding-machines. Relief trip-lever for	S. E. Waldruff	565,651	Aug. 11	1297	313	76	877
Binding-post for electric bells, &c	F. W. Manger and O. H. Huebel	571,977	Nov. 24	2755	650	77	1213

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Bird-cage	C. L. Johnson	571,165	Nov. 10	1340	{ 312 313	77	916
Bird-cage perch-holder	G. C. Hinman	562,468	June 23	2457	596	75	1892
Bisulfate solutions. Apparatus for making	J. L. Coker, Jr.	572,193	Dec. 1	168	40, 41	77	1310
Bit:							
<i>See</i> Animal-bit. Check-bit.							
Auger-bit. Countersinking-bit.							
Bridle-bit. Curb-bit.							
Center-bit. Expansion-bit.							
Bit	J. D. Keller	555,867	Mar. 3	641	154	74	1248
Bit	J. Muirhead	562,479	June 23	2474	600	75	1895
Bit-brace	H. W. Brockett	553,326	Jan. 21	1340	325	74	250
Bit-centering device	S. W. Wilcox	568,932	Oct. 6	361	83	77	69
Bit-gage	E. van Cauwenberg	569,896	Oct. 20	2066	491	77	417
Bit-stock	J. W. Gray	571,267	Nov. 10	1509	357	77	947
Bit. Riding or mooring	J. R. Andrews	572,397	Dec. 1	566	134	77	1385
Bituminous or asphaltic compounds. Machine for reducing	J. W. Barnes	568,596	Sept. 29	3293	790	76	1950
Bituminous substances. Hardening	E. T. Dumble	565,675	Aug. 11	1342	.....	76	886
Blackboard	C. E. Gregory	572,004	Nov. 24	2796	659	77	1221
Blackboard	S. J. Laughlin and J. Hough	552,914	Jan. 14	803	195	74	164
Blackboard	K. L. Wemmell	567,758	Sept. 15	1784	428	76	1642
Blackboard-rubber	C. E. Gregory	570,797	Nov. 3	688	157	77	765
Blackboard-troughs. Chalk-screen for	G. A. White	570,692	Nov. 3	514	120	77	734
Blackening appliance. Boot	A. B. Wyburn	566,264	Aug. 18	2360	578	76	1099
Blackening-box	J. T. Smith	558,853	Apr. 21	2340	569	75	473
Blackening-box	J. Stevenson	555,410	Feb. 25	2855	673	74	1087
Blackleading-machine	W. H. Nicholas and R. Stephenson	571,199	Nov. 10	1390	325	77	925
Blank-cutter	F. Mattusch	553,493	Jan. 21	1805	429	74	365
Blank furnace and burner	H. E. Auman	573,126	Dec. 15	1828	441	77	1666
Blast-furnace	M. W. Iles	557,127	Mar. 31	2924	{ 699 700	74	1752
Blasting-machine. Electric	J. Macbeth	564,437	July 21	2106	{ 492 493	76	418
Bleaching agents. Process of and means for producing	C. Kellner	559,454	May 5	186	41	75	718
Bleaching and refining. Electrolytic process for	B. S. and L. L. Summers	569,680	Oct. 20	1685	399	77	349
Bleaching apparatus	H. G. McKerrow	570,675	Nov. 3	478	112	77	727
Bleaching-keir	G. L. and W. P. Allen	555,486	Mar. 3	1	1	74	1131
Blind fixer. Rolling	F. Zahn	552,603	Jan. 7	171	47	74	34
Blind hanger. Venetian	G. K. Monroe	552,871	Jan. 7	699	170	74	132
Blind-holder	J. W. Woodward	569,479	Oct. 13	1299	306	77	262
Blind. Inside window	C. W. Burgess	567,216	Sept. 8	841	199	76	1452
Blind operator and lock	A. F. Barney	564,180	July 21	1679	393	76	341
Blind-roller support. Venetian	C. L. Miller	562,233	June 16	2059	498	75	1802
Blind-slat adjuster and holder	J. C. Merritt	557,852	Apr. 7	585	139	75	110
Blind-slat journal	E. F. Newell	552,541	Jan. 7	65	18	74	15
Blind slats. Journal for window	T. B. Ashford	564,137	July 14	1587	372	76	213
Blind-stop	C. C. Elston	553,232	Jan. 21	1352	329	74	282
Blind-stop	C. W. Kall	555,169	Feb. 25	2434	577	74	1008
Blind-stop	L. H. Smith	558,319	Apr. 14	1427	350	75	288
Blind. Venetian	C. Cederberg	572,927	Dec. 8	1471	354	77	1580
Blind. Venetian	L. Gunn	563,169	June 30	3719	{ 890 891	75	2153
Blind. Window	W. E. Andrew	572,045	Nov. 24	2864	673	77	1234
Block:							
<i>See</i> Breech-block. Pulley-block.							
Chock-block. Skid-block.							
Chopping-block. Snatch-block.							
Circuit-block. Spelling-block.							
Meat-block. Tackle-block.							
Partition-block. Toy building-block.							
Block-signal	B. B. Morgan	572,267	Dec. 1	306	73, 74	77	1338
Block-signal	L. C. Smith	569,246	Oct. 13	916	{ 219 220	77	191
Block-signal and train-lighting system. Electric	J. C. West	560,451	May 19	2040	465	75	1125
Block-signal system	A. L. Creelman	560,193	May 19	1557	353	75	1042
Block-signal system	J. E. Donbavand	569,551	Oct. 13	1427	{ 337 338 339	77	226
Block-signal system. Electropneumatic	A. H. Thorp	573,932	Dec. 29	3314	{ 791 792 793	77	1973
Block-signal system. Manually-controlled electric	A. G. Leonard	554,884	Feb. 18	1914	{ 451 452	74	895
Block system. Automatic	J. Shoecraft	562,253	June 16	2091	507	75	1808
Bloomers	T. H. Royce	553,739	Jan. 28	2242	531	74	463
Blotter	A. B. Gawler	561,104	June 2	49	13	75	1376
Blotter. Rotary	W. H. Kelly	571,862	Nov. 24	2544	602	77	1173
Blotting-pad	A. B. Upham	566,356	Aug. 25	2542	620	76	1148
Blow-testing apparatus. Coin-controlled	W. S. M. Field and A. R. Warner	563,919	July 14	1196	281	76	239
Blower	S. Barrow	573,196	Dec. 15	1954	470	77	1688
Blower	T. A. Richards	557,705	Apr. 7	319	76	75	61
Blower attachment. Stack	N. H. Smith	569,604	Oct. 20	1919	455	77	389
Blower. Carbureter	G. H. Burrows	563,563	July 7	557	{ 127 128	76	105
Blower, exhaustor, or pump. Rotary	A. W. Kurz	571,770	Nov. 24	2381	569	77	1142
Blower. Rotary	T. W. Green	559,703	May 5	592	140	75	795
Blower. Rotary	S. B. Minnich	573,609	Dec. 22	2723	647	77	1849
Blower. Steam	G. R. Jarman	560,095	May 12	1387	312	75	957
Blower. Steam	H. E. Parson	573,480	Dec. 22	2505	594	77	1806
Blower. Steam-jet	C. T. Coe	559,075	Apr. 28	2736	665	75	565
Blowers. Impeller for rotary	T. W. Green	565,347	Aug. 4	728	174	76	741
Blowing apparatus. Automatic	T. P. Burke	574,188	Dec. 29	3820	912	77	2063
Blowing-engine	W. E. Good and A. Marichal	558,944	Apr. 28	2515	610	75	523

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Blowing-engine or compressor.....	W. E. Good.....	560,707	May 26	2520	579	75	1230
Blowpipe.....	A. D. Barrett.....	570,656	Nov. 3	450	106	77	723
Blowpipe.....	T. B. Wamsley.....	553,742	Jan. 28	2247	532	74	464
Blowpipe apparatus.....	M. D. Brown and D. J. Griffin.....	574,237	Dec. 29	3832	935	77	2024
Blowpipe-support.....	G. R. Ford and D. Alexander.....	560,092	May 12	1380	310	75	956
Blue. Laundry.....	J. W. Fuller.....	553,556	Jan. 28	1918		74	403
Board:							
<i>See</i> Drawing-board.	Moldboard.						
Game-board.	Pressing or ironing board.						
Ironing-board.	Whist-board.						
Lap-board.							
Boat:							
<i>See</i> Bicycle-boat.	Steamboat.						
Life-boat.							
Boat.....	F. De Borggrave.....	574,083	Dec. 29	3596	859	77	2025
Boat.....	W. H. Mullins.....	563,674	July 7	740	174	76	139
Boat.....	R. S. Peabody.....	552,618	Jan. 7	197	55	74	39
Boat.....	R. S. Peabody.....	563,796	July 14	955	227	76	196
Boat construction. Ferry.....	H. See.....	563,075	June 30	3569	856 857	75	2126
Boat detaching and recovering apparatus.....	E. C. Hillyer.....	563,174	June 30	3726	892 893	75	2155
Boat-detaching apparatus.....	F. Blanding.....	557,475	Mar. 31	3550	848	74	1865
Boat-detaching device.....	B. St. Bernard.....	565,701	Aug. 11	1378	336	76	893
Boat-launching device.....	D. Pike.....	555,018	Feb. 18	2155	513 514	74	939
Boat-lowering device.....	J. A. Gamble.....	560,490	May 19	2098	479 480	75	1137
Boat protecting-cover.....	B. Lobee.....	558,401	Apr. 14	1562	381	75	311
Boat-releasing device.....	J. H. McGurty.....	556,103	Mar. 10	1096	261	74	1352
Boats. Anticapsizing and life-saving appliance for small.....	W. von Rüdiger.....	554,349	Feb. 11	985	228	74	702
Boats. Application of power to canal.....	A. C. Mather.....	556,016	Mar. 10	932	221 232	74	1323
Boats. Construction of.....	F. A. Mershon.....	563,048	June 30	3495	839 840	75	2112
Boats or vessels. Stage apparatus for.....	J. H. Throop.....	555,542	Mar. 3	98	22	74	1148
Bobbin.....	G. Pendleton, Jr.....	557,873	Apr. 7	617	147	75	116
Bobbin-holder and thread-catcher.....	T. J. Murdock. (Reissue).....	11,574	Nov. 24	3017	706	77	1260
Bobbin or analogous device.....	H. L. Gates.....	556,745	Mar. 24	2261	229	74	1602
Bobbin support or holder.....	O. E. Lafleur.....	567,647	Sept. 15	1601	385	76	1606
Body-loop and spring-coupling. Combined.....	C. A. Behlen.....	572,097	Dec. 1	6	2	77	1220
Body-rest and bed-pan.....	J. J. Bowker.....	566,724	Aug. 25	3169	775	76	1265
Body-shield.....	E. Hunt.....	558,812	Apr. 21	2278	553	75	461
Bog-cutter.....	J. B. Cannon.....	569,170	Oct. 13	779	182	77	104
Boiler:							
<i>See</i> Agricultural boiler.	Marine boiler.						
Cooking-boiler.	Range-boiler.						
Domestic boiler.	Sectional boiler.						
Electric boiler.	Steam-boiler.						
Flame-tube boiler.	Upright boiler.						
Heating-boiler.	Vertical boiler.						
Hot-water or steam boiler.	Washboiler.						
Locomotive-boiler.	Water-tube boiler.						
Boiler.....	C. W. Baker.....	559,021	Apr. 28	2643	644	75	548
Boiler.....	L. M. Barlow.....	573,195	Dec. 15	1954	470	77	1628
Boiler.....	M. P. Boss.....	557,354	Mar. 31	3345	803	74	1827
Boiler.....	T. E. Button.....	567,940	Sept. 15	2088	503	76	1700
Boiler.....	J. E. Dever and C. A. Cotter.....	553,395	Jan. 21	1640	392	71	335
Boiler.....	E. F. Edgar.....	555,236	Feb. 25	2548	600	74	1029
Boiler.....	G. Gilford.....	564,308	July 21	1882	442 443	76	378
Boiler.....	G. H. Hersey.....	554,872	Feb. 18	1891	445	74	891
Boiler.....	V. Karavodin.....	569,287	Oct. 13	980	235	77	202
Boiler.....	C. Kellogg.....	571,595	Nov. 17	2061	493 494	77	1063
Boiler.....	C. O'Toole.....	560,919	May 26	2907	666	75	1304
Boiler.....	J. Plenty and J. H. Miller.....	555,880	Mar. 3	667	159	74	1253
Boiler.....	L. Saunders.....	562,199	June 16	2009	486	75	1793
Boiler.....	J. E. Schlieper.....	556,697	Mar. 17	2169	507	74	1568
Boiler.....	J. E. Schlieper.....	556,698	Mar. 17	2170	507	74	1568
Boiler.....	C. T. Toulmin.....	554,383	Feb. 11	1039	241 242	74	713
Boiler.....	N. L. Warren.....	569,477	Oct. 13	1296	305	77	261
Boiler.....	G. P. Washburn.....	571,713	Nov. 17	2259	542	77	1100
Boiler-alarm.....	J. O'Connor and C. A. Turner.....	566,612	Aug. 25	2987	729	76	1233
Boiler and boiler-furnace.....	W. Brand.....	569,996	Oct. 27	2244	533	77	463
Boiler and steam-generator.....	W. H. Weightman.....	562,993	June 30	3411	820	75	2096
Boiler-cleaner.....	F. C. Finch.....	565,676	Aug. 11	1343	326	76	886
Boiler-cleaner.....	G. R. Ford.....	560,126	May 12	1436	324	75	968
Boiler-cleaner.....	A. M. Lawson.....	573,226	Dec. 15	2006	481	77	1698
Boiler-cleaner.....	P. Louzon.....	562,548	June 23	2579	626	75	1915
Boiler-cleaner.....	J. McFarlane.....	559,594	May 5	414	99	75	763
Boiler-cleaner.....	J. McFarlane.....	565,387	Aug. 4	790	188	76	763
Boiler-cleaner.....	M. Mistic.....	557,007	Mar. 24	2722	645	74	1688
Boiler-cleaner. Steam.....	W. Foster.....	565,733	Aug. 11	1442	352	76	904
Boiler-cleaners. Floating skimmer for.....	J. J. Sweeney.....	569,070	Oct. 6	609	138	77	117
Boiler-cleaning apparatus.....	M. Teetor and G. W. Kemp.....	563,893	July 14	1151	270	76	231
Boiler-compound feeder.....	C. Taylor.....	560,764	May 26	2624	602	75	1250
Boiler-compound or solvent distributor.....	H. M. Bolin.....	552,863	Jan. 7	676	165	74	128
Boiler-coverings to boilers. Device for securing.....	T. Rose.....	553,319	Jan. 21	1514	363	74	311
Boiler-drums. Steam-extractor for.....	J. J. Hogan.....	558,906	Apr. 21	2436	593	75	492
Boiler-feeder. Automatic.....	O. J. Scott.....	553,476	Jan. 21	1771	422	74	360

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Boiler fire-box. Steam.....	J. Smith	572,077	Nov. 24	2950	694	77	1249
Boiler-flue	J. R. Lowrey	555,822	Mar. 3	557	133	74	1232
Boiler-flue attachment	H. H. Sperry	565,370	Aug. 4	760	181	76	758
Boiler-flue cleaner	E. A. Balz	557,299	Mar. 31	3251	779	74	1207
Boiler-flue cleaner	G. C. Brooks	563,651	July 7	692	163	76	130
Boiler-flue cleaner	C. B. Calder	563,707	July 7	794	190	76	149
Boiler-flue cleaner	D. W. Dart	567,265	Sept. 8	934	223	76	1467
Boiler-flue cleaner	C. S. Dean	561,497	June 2	772	189	75	1516
Boiler-flue cleaner	W. H. Howe	566,763	Sept. 1	53	13, 14	76	1290
Boiler-furnace	P. H. Bagley	566,837	Sept. 1	165	39	76	1314
Boiler-furnace	E. Brook	553,227	Jan. 21	1342	326	74	280
Boiler-furnace	E. J. and A. B. Duff	573,265	Dec. 15	2071	496	77	1709
Boiler-furnace	W. Esplen	566,389	Aug. 25	2603	{ 635 636	76	1160
Boiler-furnace	D. D. Flemming	572,417	Dec. 1	591	{ 140 141	77	1390
Boiler-furnace	S. S. Horner	570,995	Nov. 10	1035	242	77	860
Boiler-furnace	S. P. Hutchinson	570,998	Nov. 10	1039	243	77	860
Boiler-furnace	A. F. Kingsley	558,200	Sept. 22	3580	621	76	1203
Boiler-furnace	T. Langer	558,967	Apr. 28	2550	618	75	530
Boiler-furnace	C. W. and J. A. Mohr	558,510	Apr. 21	1769	429	75	368
Boiler furnace and flue. Steam.....	J. Nodder	574,107	Dec. 29	3641	870	77	2033
Boiler furnace. Locomotive	J. Milton	557,812	Mar. 31	3272	784	74	1-11
Boiler furnace. Steam	H. H. Everhard	568,752	Oct. 6	72	16	77	17
Boiler furnace. Steam	L. Halbauer	566,311	Aug. 25	249	{ 600 601	76	1130
Boiler furnace. Steam	O. F. Jones	566,862	Sept. 1	215	50	76	1323
Boiler furnace. Steam	J. S. D. Shanks	562,252	June 16	2090	{ 506 507	75	1808
Boiler furnace. Steam	E. J. Wood	574,051	Dec. 29	3544	846	77	2015
Boiler furnace. Upright	E. B. Parkhurst	573,912	Dec. 29	3274	{ 781 782	77	1967
Boiler incrustation. Preventing	A. Nieske	556,021	Mar. 10	939	.....	74	1324
Boiler joint. Sectional-steam	M. O. Roberts	553,870	Feb. 4	100	21	74	523
Boiler-lug	T. C. Best	569,164	Oct. 13	771	179	77	163
Boiler or other furnace	E. W. Jones	569,207	Oct. 13	841	{ 198 199	77	176
Boiler-patch	C. J. Phillips	571,096	Nov. 10	1219	285	77	894
Boiler-plate-milling machine	C. E. Hoppes	574,063	Dec. 29	3565	851	77	2019
Boiler-pressure-indicating alarm	D. C. McAulay	566,997	Sept. 1	466	108	76	1370
Boiler safety-check	F. Albin	562,267	June 16	2115	513	75	1812
Boiler safety device. Steam	G. J. N. Carpentier	559,995	May 12	1187	263	75	921
Boiler safety device. Steam	G. J. N. Carpentier	569,811	Oct. 20	1931	459	77	391
Boiler safety device. Steam	C. Ward	565,149	Aug. 4	372	86	76	686
Boiler safety-plug. Steam	J. Gripp and J. F. Morrison	559,847	May 12	906	201	75	867
Boiler-scraper	J. I. Roberts and J. B. McCormick	569,060	Oct. 6	592	135	77	114
Boiler-stay	R. T. Preston and J. Holden	562,025	June 16	1710	{ 415 416	75	1738
Boiler-tube cleaner	W. D. Forsyth and E. T. Bell	568,247	Sept. 22	2662	{ 637 638	76	1818
Boiler-tube cleaner	J. L. Lockhart	564,932	July 28	2961	705	76	593
Boiler tube-cleaner. Steam	A. Secor	555,976	Mar. 10	848	202	74	1309
Boiler tube-cleaner. Steam	J. H. Voorhees	572,037	Nov. 24	2848	{ 670 671	77	1231
Boiler-tube cutter	W. C. Davis	566,668	Aug. 25	3068	749	76	1248
Boiler-tube cutter	J. Richard	558,422	Apr. 14	1599	390	75	318
Boiler-tube expander	J. C. Morrison	569,651	Oct. 20	1636	386	77	340
Boiler-tube extension-coupling	J. J. Hogan	558,905	Apr. 21	2435	593	75	491
Boiler-tube ferrule	F. Hohlfelder	558,952	Apr. 28	2529	613	75	526
Boiler tube or flue	J. R. De Remer	573,646	Dec. 22	2819	666	77	1867
Boiler-tubes. Device for removing scale from	F. G. Bird	573,853	Dec. 29	3165	754	77	1947
Boiler water-front	G. Tetley	563,990	July 14	1321	309	76	261
Boiler water-gage shut-off	M. J. Reuter	557,702	Apr. 7	314	75	75	60
Boilers. Device for feeding anti-incrustation compounds to	W. A. West	569,440	Oct. 13	1241	291	77	251
Boilers. Gas producer and burner for steam	J. Murphy	573,899	Dec. 29	3256	776	77	1962
Boilers. Means for feeding and controlling supply of water to	A. E. Johnson	572,171	Dec. 1	136	32	77	1303
Boilers. Means for suppressing concussion or hammering shocks in pumping water to	C. G. P. de Laval	563,192	June 30	3767	901	75	2163
Boilers. Perforated door for steam	J. Hartmann	569,672	Oct. 20	2023	483	77	409
Boilers. Preventing scale in steam	B. McCabe	554,530	Feb. 11	1290	302	74	760
Boilers. Safety device for attachments to	L. Schutte	554,738	Feb. 18	1653	390	74	846
Boilers. Safety water-column for steam	A. J. Wright	572,592	Dec. 8	886	215	77	1466
Boiling apparatus. Electric	F. W. Schindler-Jenny	573,042	Dec. 15	1673	402	77	1637
Boiling apparatus. Meat	P. Musselman	560,596	May 13	2273	520	75	1168
Booster-spring	N. L. Holmes	559,581	May 5	390	94	75	759
Bolt:							
See Anchor-bolt. Self-locking bolt.							
Expansion-bolt. Spring-bolt.							
Bolt	J. M. and M. C. Bowers	566,130	Aug. 18	2153	525	76	1058
Bolt and nut-lock	W. B. Nevill	553,311	Jan. 21	1501	360	74	309
Bolt-cutter	C. Hagelstein	562,181	June 16	1982	480	75	1788
Bolt-cutter	T. Nading	556,275	Mar. 10	1446	338	74	1416
Bolt-cutter	J. H. Osborne	569,661	Oct. 20	1649	389	77	342
Bolt-cutting machine	H. A. Fergusson	571,434	Nov. 17	1782	425	77	1013
Bolt-heading apparatus	J. H. Alker	560,962	May 26	2976	685	75	1317
Bolt-heading machine. Chaplet	G. J. Fanner	562,813	June 30	3064	{ 741 742	75	2025
Bolt-heading machines. Gripping-toggle for	F. W. Bruch	565,877	Aug. 18	1702	417	76	970
Bolt threading and pointing machine	J. H. Haskins	556,054	Mar. 10	1009	{ 241 242	74	1337
Bolts, screws, &c. Machine for shaving	G. E. Witherell	564,355	July 21	1960	{ 461 462	76	392

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Bolting-machine sieves. Cleaner for.	W. J. Lough	573,674	Dec. 22	2870	678	77	1876
Bolting or clamping device.	J. T. Swain	559,506	May 5	272	64	75	735
Bolting-reel.	W. F. Maish	567,569	Sept. 8	1457	349	76	1563
Bolting-reels. Mounting and driving	J. Hutchison	573,412	Dec. 15	2338	559	77	1758
Bone-black kiln	H. A. Wheeler	556,603	Mar. 17	2034	476	74	1541
Bone-black. Kiln for revivifying	B. Eba	557,498	Mar. 31	3601	862	74	1875
Bone-cutting machine	L. W. Gibson	567,854	Sept. 15	1953	468	76	1674
Bonus-determining device	J. H. Drobisch	573,076	Dec. 15	1739	416	77	1649
Book	W. Bucksath	573,202	Dec. 15	1965	474	77	1690
Book. Automatically-opening.	H. E. Newton	558,203	Apr. 14	1227	299	75	249
Book-backs. Means for protecting	C. A. Q. Norton	560,323	May 19	1803	410	75	1083
Bookbinders' gluing-machine	J. V. Galicher	567,742	Sept. 15	1756	421	76	1636
Bookbinder's rasping-machine.	E. J. Campbell and P. J. Haggerty	557,965	Apr. 7	786	187	75	148
Bookbinding	C. A. Evertz	554,114	Feb. 4	582	131	74	610
Bookbinding	J. B. O'Riva	562,649	June 23	2765	672	75	1950
Bookbinding-machine table	T. A. Briggs	552,630	Jan. 7	217	60	74	43
Book-carrying device	J. L. Torney	570,520	Nov. 3	149	36	77	666
Bookcase	H. J. Hoffman	552,579	Jan. 7	129	36	74	26
Bookcase	W. M. Poindexter	567,003	Sept. 1	478	111	76	1372
Bookcase and table-leaf receptacle. Combined	S. S. Childs	566,658	Aug. 25	3051	745	76	1245
Bookcase. Revolving	B. Brower	559,161	Apr. 28	2933	708	75	602
Bookcase. Revolving	W. S. Lynne	565,083	Aug. 4	213	54	76	657
Bookcase. Sectional	O. H. L. Wernicke	557,737	Apr. 7	384	90	75	73
Bookcase. Separable	O. H. L. Wernicke	564,401	July 21	2043	479	76	408
Bookcase. Separable	O. H. L. Wernicke and M. C. Burr	557,736	Apr. 7	382	89	75	72
Book. Check.	W. W. White	563,700	July 7	780	185	76	146
Book. Check sales or order	S. Shoup	559,622	May 5	467	108	75	772
Book-cover	C. L'Enfant	553,530	Jan. 28	1878	444	74	396
Book-cover	C. L'Enfant	559,727	May 5	631	151	75	803
Book-cover	C. L'Enfant	562,228	June 16	2052	496	75	1801
Book-cover	F. S. Palmer	553,963	Feb. 4	294	65	74	558
Book-covers. Machine for making.	H. J. Brauer	565,832	Aug. 11	1608	393	76	935
Book-covers, &c. Means and appliance connected with	W. Symons	564,659	July 28	2485	586	76	507
Book-covering machine	G. H. Specht	555,910	Mar. 3	716	174	74	1263
Book. Credit coupon	L. P. Hardy	554,182	Feb. 4	698	157	74	633
Book. Duplicate memorandum or sales-check	W. A. Cooke, Jr.	558,637	Apr. 21	1973	479	75	405
Book for county records. Abstract	S. H. Rice	561,240	June 2	281	70	75	1422
Book-handling device	H. Pfund	571,789	Nov. 24	2416	576	77	1150
Book-holder	J. A. Blackmer	564,964	Aug. 4	7	2	76	618
Book-holder	M. E. Blood	573,072	Dec. 15	1730	415	77	1047
Book-holder	W. D. Cave	564,779	July 28	2700	642	76	544
Book-holder	S. B. Fuller	564,608	July 28	2405	567	76	491
Book-holder	S. B. Moody	553,289	Jan. 21	1468	353	74	303
Book-holder	W. T. J. Parkes	563,056	June 30	3508	842	75	2114
Book-holder	S. Van Meter	562,988	June 30	3403	818	75	2094
Book-holder	J. T. Whitmore	571,254	Nov. 10	1483	348	77	942
Book-holder	G. I. Wicks	565,583	Aug. 11	1171	282	76	853
Book-holder. Revolving	C. L. Ballard	571,717	Nov. 17	2264	544	77	1101
Bookkeeper's posting-guide	E. H. Wintermute, Jr	569,478	Oct. 13	1298	305	77	261
Bookkeeping and registering cash. Machine for	L. Allen	570,620	Nov. 3	344	85	77	702
Book-leaf holder	N. A. Judd	563,381	July 7	249	56	76	50
Book-leaf-holding device	R. H. P. Ellis	560,025	May 12	1243	279	75	930
Book lettering and embossing press	L. Bailey	565,824	Aug. 11	1596	390	76	933
Book-lock	E. E. Rogers	555,829	Mar. 3	566	137	74	1233
Book. Manifold account and sales	H. D. Keith	553,916	Feb. 4	220	47	74	546
Book. Manifold account and sales	H. D. Keith	561,793	June 9	1316	315	75	1643
Book. Manifold cash-sales	J. H. Murphy	572,022	Nov. 24	2820	666	77	1225
Book. Manifold memorandum	E. W. Blackhall	558,712	Apr. 21	2105	509	75	429
Book. Manifold memorandum	W. W. O'Hara	559,145	Apr. 28	2807	702	75	597
Book. Manifold sales	W. D. Bates	570,365	Oct. 27	2939	698	77	593
Book. Manifold sales	J. Bengough	553,503	Jan. 28	1822	432	74	325
Book. Manifold sales	W. A. Cooke, Jr.	558,636	Apr. 21	1971	478	75	405
Book. Manifold sales	J. F. Laning	561,875	June 9	1455	351	75	1669
Book mark	R. S. Pickett	571,453	Nov. 17	1811	433	77	1019
Book-marker	F. D. Ward	565,818	Aug. 11	1584	387	76	930
Book. Mechanical cash	A. D. Smith	555,745	Mar. 3	442	105	74	1209
Book. Memorandum	J. R. Dickson	559,123	Apr. 28	2825	684	75	585
Book. Memorandum	A. J. Gallager and G. Langbein	563,762	July 14	894	213	76	183
Book. Memorandum	S. S. Newton	554,194	Feb. 4	711	161	74	635
Book. Memorandum	F. J. Wende	563,525	July 7	492	115	76	94
Book. Memorandum sales-slip	W. M. Kinnard	558,081	Apr. 14	1032	252	75	211
Book. Merchant's coupon	J. T. Plant	560,535	May 19	2161	494	75	1148
Book or pad. Manifold memorandum	P. Hano	568,305	Sept. 22	2755	663	76	1837
Book or shipping-receipt. Duplicating sales	L. S. Lang	552,765	Jan. 7	483	119	74	91
Book. Pass	U. G. and W. F. Beck	554,169	Feb. 4	682	154	74	630
Book. Picture	H. T. Koerner	556,467	Mar. 17	1801	418	74	1499
Book reference-guide	J. H. Hock	565,354	Aug. 4	738	176	76	753
Book-rest	C. F. Haynes	568,139	Sept. 22	2481	596	76	1784
Book-rest for school-desks, tables, &c.	C. F. Haynes	573,089	Dec. 15	1766	424	77	1654
Book rest or holder	T. G. H. Mann	562,473	June 23	2464	597	75	1894
Book. Specification	F. H. Paradice	565,120	Aug. 4	302	71	76	673
Book-stack	C. W. Trowbridge	565,189	Aug. 4	449	107	76	700

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Book-support.....	J. W. Hine.....	560,851	May 26	2781	638	75	1291
Book-support. Adjustable.....	D. J. Wilson.....	562,749	June 23	2943	713	75	1984
Book-turner.....	D. Moon.....	567,403	Sept. 8	1196	286	76	1515
Books. Binding reversible forms of writing.....	H. W. Ellsworth.....	565,381	Aug. 4	779	186	76	761
Books. Cover for memorandum sales-slip.....	W. M. Kinnard.....	565,995	Aug. 18	1937	468	76	1018
Books. Detachable and interchangeable leaf-binding for.....	L. Kosby.....	561,670	June 9	1076	260	75	1598
Books, forms, or the like. Indicator for.....	J. Speyer.....	566,943	Sept. 1	357	83	76	1350
Books from bookcases. Device for withdrawing.....	G. Morton.....	562,905	June 30	3241	783	75	2059
Books. Machine for cutting index.....	J. W. MacLachlan.....	565,551	Aug. 11	1113	269	76	842
Books. Transfer-sheet holder and cover for manifolding.....	W. A. Cooke, Jr.....	558,635	Apr. 21	1969	478	75	405
Boom and support. Hanging.....	C. W. Hunt and C. C. King.....	553,119	Jan. 14	1153	280	74	231
Boot.....	J. Dollison and S. Rimer.....	570,201	Oct. 27	2609	620	77	533
Boot-black's foot-rest.....	T. J. Pendergast.....	573,284	Dec. 15	2116	508	77	1717
Boot-cleaning machine.....	H. Southey.....	564,115	July 14	1556	365	76	306
Boot-jack.....	U. H. Ulferts.....	562,050	June 16	1758	425	75	1746
Boot or shoe.....	J. W. Bowen.....	558,345	Apr. 14	1465	360	75	294
Boot or shoe.....	E. G. Gallagher.....	572,887	Dec. 8	1388	336	77	1563
Boot or shoe.....	W. Owen.....	570,814	Nov. 3	714	162	77	770
Boot or shoe.....	G. W. Sleeper.....	563,083	June 30	3581	859	75	2128
Boot or shoe calk.....	J. Zandalazini.....	559,923	May 12	1060	236	75	895
Boot or shoe cleaning and polishing machine.....	R. L. Tapscott.....	558,324	Apr. 14	1435	353	75	289
Boot or shoe form. Removable.....	W. B. Arnold.....	568,325	Sept. 29	2792	671	76	1859
Boot or shoe grip.....	H. Puddefoot.....	557,879	Apr. 7	625	148	75	118
Boot or shoe heel-cushion.....	C. P. Shaw.....	569,589	Oct. 13	1519	357	77	302
Boot or shoe maker's jack.....	O. Johnson.....	555,866	Mar. 3	639	153	74	1248
Boot or shoe nailing machine.....	J. A. Cavalli.....	572,692	Dec. 8	1061	258 259 260	77	1500
Boot or shoe pulling-over machine.....	C. P. Lawrence.....	559,726	May 5	628	151	75	802
Boot or shoe sole grooving machine.....	G. Bryant.....	568,892	Oct. 6	303	69	77	58
Boot or shoe stretcher.....	J. C. Green.....	563,588	July 7	598	139	76	112
Boot or shoe stretchers. Holdfast for.....	E. J. Leighton.....	567,317	Sept. 8	1050	250	76	1488
Boot or shoe toe-cap.....	A. Seaver.....	559,311	Apr. 28	3200	773	75	652
Boot or shoe tree.....	C. F. Clark.....	569,857	Oct. 20	2004	478	77	405
Boot-rack.....	W. S. Lambert.....	567,903	Sept. 15	2018	484	76	1687
Boot-tree.....	A. N. Ebbersten.....	556,497	Mar. 17	1861	434	74	1510
Boot-tree.....	H. W. Mobbs and A. Lewis.....	563,502	July 7	451	105	76	87
Boot-treering machine.....	J. Stewart.....	566,241	Aug. 18	2329	570	76	1093
Boot. Ventilated.....	J. S. King.....	556,825	Mar. 24	2410	566	74	1629
Boots or shoes. Apparatus for beating or pressing out welts about toes of.....	J. F. Ames.....	559,115	Apr. 28	2810	680 681	75	582
Boots or shoes. Inner sole for.....	G. L. Preble and E. P. Worth.....	553,422	Jan. 21	1686	402	74	343
Boots or shoes. Instep-stretcher for.....	J. C. Green.....	566,572	Aug. 25	2932	716	76	1222
Boots or shoes. Machine for attaching uppers to soles of.....	J. E. Proctor.....	570,768	Nov. 3	641	147	77	755
Boots or shoes. Machine for treering or shaping.....	G. H. Clark.....	564,407	July 21	2053	481	76	410
Boots or shoes. Tool for removing nails and pegs from.....	E. McLean.....	566,608	Aug. 25	2983	728	76	1232
Booth.....	A. F. Hunt, Jr., and G. L. Walker.....	570,403	Oct. 27	3020	715 716	77	608
Booth. Degree.....	N. H. Reynolds.....	566,799	Sept. 1	106	26	76	1300
Booth. Folding.....	C. Engert.....	560,401	May 19	1944	444	75	1109
Booth. Folding.....	C. Engert.....	561,703	June 9	1152	274 275	75	1614
Booth. Folding.....	C. Engert.....	563,147	June 30	3685	882 883	75	2146
Boring and cutting tool.....	W. T. Smith.....	569,433	Oct. 13	1228	228	77	249
Boring and facing machine.....	C. E. Lipe.....	555,013	Feb. 18	2145	511 512	74	937
Boring and mortising machine. Gang-bit.....	E. B. Hayes.....	567,097	Sept. 1	646	150 151	76	1405
Boring and turning mill.....	G. W. Moreton.....	569,344	Oct. 13	1088	258 259	77	224
Boring. Apparatus for regulating and balancing weight of boring-rods in deep.....	H. Lapp.....	557,837	Apr. 7	561	135	75	106
Boring cylinders. Compound feed-motion for.....	W. S. Phelps.....	570,050	Oct. 27	2331	552	77	479
Boring earth, minerals, &c., for prospecting purposes. Apparatus for.....	F. M. McLarty.....	569,121	Oct. 6	636	160 161	77	131
Boring-machine.....	E. E. Anthony.....	569,597	Oct. 20	1538	361	77	321
Boring-machine.....	W. W. Black.....	570,197	Oct. 27	2601	618	77	531
Boring-machine.....	J. C. and E. J. Bullock.....	573,857	Dec. 29	3173	756 757	77	1949
Boring-machine.....	H. H. Cummings.....	556,492	Mar. 17	1841	429	74	1507
Boring-machine.....	G. T. Whitney.....	561,950	June 9	1583	383 384	75	1694
Boring machine. Dowel-hole.....	H. A. Poertner.....	568,320	Sept. 22	2781	669	76	1842
Boring-machine. Gang.....	H. H. Rockwell.....	560,234	May 19	1643	374	75	1056
Boring machine. Hole.....	J. T. Herza.....	556,349	Mar. 17	1576	369	74	1456
Bosh-plate.....	D. Fox.....	558,903	Apr. 21	2433	592	75	491
Bosh-plate.....	J. P. Witherow.....	572,143	Dec. 1	87	19	77	1294
Boshing apparatus.....	G. A. Dean.....	561,570	June 9	915	219	75	1568
Bottle.....	S. Alexander.....	569,988	Oct. 27	2229	529	77	460
Bottle.....	G. S. Axford and E. J. Lambertson.....	566,733	Sept. 1	4	1	76	1281
Bottle.....	F. W. Bates.....	568,186	Sept. 22	2557	615	76	1799
Bottle.....	W. G. Baumgardner.....	568,509	Sept. 29	3109	749	76	1917
Bottle.....	C. P. Behrens.....	571,505	Nov. 17	1914	457	77	1037
Bottle.....	R. G. Bidwell.....	571,035	Nov. 10	1108	259	77	873
Bottle.....	G. W. Blake and J. B. Price.....	557,644	Apr. 7	224	55	75	42
Bottle.....	A. P. Bliven.....	573,200	Dec. 15	1963	473	77	1690
Bottle.....	A. D. Boardman.....	562,794	June 30	3025	730	75	2018
Bottle.....	W. M. Breck.....	555,758	Mar. 3	458	109	74	1212
Bottle.....	D. O. Brunner and J. L. Shough.....	571,826	Nov. 24	2478	587	77	1161

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Bottle.....	F. H. Bultman.....	573,760	Dec. 22	3005	712	77	1902
Bottle.....	M. Carr.....	569,614	Oct. 20	1564	367	77	326
Bottle.....	R. W. Chapman, P. Borger, and J. H. Linton.....	568,109	Sept. 22	2429	583	76	1774
Bottle.....	A. L. Clark.....	569,615	Oct. 20	1565	367	77	327
Bottle.....	J. G. Clemmer.....	554,655	Feb. 18	1524	380	74	880
Bottle.....	F. L. Cooch and W. H. Lawrence.....	567,808	Sept. 15	1869	447	76	1657
Bottle.....	S. Costello.....	571,430	Nov. 17	1777	424	77	1012
Bottle.....	J. A. Davies.....	560,398	May 19	1939	443	75	1108
Bottle.....	T. M. Dillingham.....	557,655	Apr. 7	242	59	75	46
Bottle.....	B. R. Dillon.....	571,515	Nov. 17	1928	460	77	1039
Bottle.....	L. Doscher.....	565,534	Aug. 11	1084	260	76	836
Bottle.....	C. D. Duncan.....	566,565	Aug. 25	2923	713	76	1220
Bottle.....	F. H. Eddy.....	560,400	May 19	1943	443	75	1109
Bottle.....	D. Edwards.....	572,477	Dec. 1	678	162	77	1408
Bottle.....	E. M. Engelman.....	566,385	Aug. 25	2597	634	76	1159
Bottle.....	E. M. Engelman.....	566,387	Aug. 25	2600	634	76	1159
Bottle.....	W. S. Ford.....	565,732	Aug. 11	1442	351	76	904
Bottle.....	C. M. Freeman.....	555,151	Feb. 25	2405	570	74	1002
Bottle.....	J. M. Grau.....	562,958	June 30	3360	808	75	2085
Bottle.....	J. S. Harrison.....	554,869	Feb. 18	1887	444	74	891
Bottle.....	W. R. Hartigan.....	568,613	Sept. 29	3325	796	76	1957
Bottle.....	W. A. Hubener.....	563,276	July 7	71	18	76	15
Bottle.....	W. C. Jerome.....	554,518	Feb. 11	1274	298	74	757
Bottle.....	L. C. Kendall.....	561,668	June 9	1073	259	75	1598
Bottle.....	K. A. Klose.....	567,103	Sept. 1	658	153	76	1407
Bottle.....	L. M. La Rue.....	567,717	Sept. 15	1713	411	76	1628
Bottle.....	J. R. Lindsey.....	572,058	Nov. 24	2892	683	77	1239
Bottle.....	C. P. Lundquist.....	569,217	Oct. 13	864	203	77	180
Bottle.....	W. H. McDonald.....	568,037	Sept. 22	2283	553	76	1748
Bottle.....	J. J. McKiniry and W. von Bokern.....	558,596	Apr. 21	1909	465	75	393
Bottle.....	H. Meins.....	564,209	July 21	1732	403	76	350
Bottle.....	W. Murray.....	560,522	May 19	2141	490	75	1144
Bottle.....	M. J. Nolan.....	570,607	Nov. 3	320	79	77	698
Bottle.....	J. Paulus.....	572,179	Dec. 1	147	36	77	1306
Bottle.....	H. C. Pease.....	561,275	June 2	342	86	75	1435
Bottle.....	S. S. Peckinpaugh.....	568,875	Oct. 6	279	64	77	54
Bottle.....	E. C. Pollard.....	566,619	Aug. 25	2997	731	76	1235
Bottle.....	G. A. Preston.....	558,105	Apr. 14	1070	263	75	219
Bottle.....	P. L. Raymond.....	567,917	Sept. 15	2037	488	76	1691
Bottle.....	T. W. Richards.....	554,498	Feb. 11	1243	291	74	751
Bottle.....	J. D. Rively.....	567,199	Sept. 8	814	193	76	1448
Bottle.....	A. Rosedale.....	558,523	Apr. 21	1789	434	75	372
Bottle.....	M. Rosenstock.....	573,484	Dec. 22	2510	595	77	1807
Bottle.....	R. Ryder.....	567,172	Sept. 8	778	183	76	1441
Bottle.....	E. A. Sanders.....	568,210	Sept. 22	2596	625	76	1806
Bottle.....	W. H. B. Schmied.....	566,873	Sept. 1	230	53	76	1326
Bottle.....	R. S. Seaman.....	560,653	May 26	2431	556	75	1212
Bottle.....	S. J. Smith.....	562,671	June 23	2800	680	75	1957
Bottle.....	T. N. Sterry and J. J. Murphy.....	557,165	Mar. 31	2990	714	74	1764
Bottle.....	M. and L. W. Tebbetts.....	572,387	Dec. 1	551	130	77	1382
Bottle.....	B. H. Thornton.....	565,187	Aug. 4	446	107	76	699
Bottle.....	R. E. Thurman.....	573,495	Dec. 22	2530	599	77	1810
Bottle.....	A. Ullman.....	568,818	Oct. 6	178	42	77	36
Bottle.....	G. W. Upton.....	553,601	Jan. 28	2001	474	74	418
Bottle.....	E. S. Vance.....	556,446	Mar. 17	1762	409	74	1493
Bottle.....	J. V. Van Name.....	573,557	Dec. 22	2633	626	77	1830
Bottle.....	L. C. Werner.....	564,673	July 28	2506	593	76	511
Bottle and case. Combined	W. S. Thomson.....	565,373	Aug. 4	764	182	76	359
Bottle and stopper	J. A. Butler.....	567,376	Sept. 8	1150	276	76	1506
Bottle and stopper	L. J. A. Fernandes.....	573,773	Dec. 22	3024	717	77	1906
Bottle and stopper therefor	R. Temple.....	560,444	May 19	2024	463	75	1123
Bottle. Antirefilling	T. Folks.....	573,775	Dec. 22	3026	717	77	1906
Bottle. Antirefilling	W. A. Smith.....	571,204	Nov. 10	1399	327	77	927
Bottle. Antirefilling	W. H. Wellstead.....	568,388	Sept. 29	2898	697	76	1879
Bottle-cap.	A. Boisselier.....	563,125	June 30	3653	874	75	2141
Bottle-cap	F. W. Coleman.....	564,146	July 14	1601	375	76	316
Bottle-cap	A. L. Fisher.....	558,375	Apr. 14	1520	372	75	304
Bottle cap and brush	C. M. Higgins.....	571,367	Nov. 17	1676	397	77	993
Bottle cap or nipple. Mucilage	J. N. Clark.....	567,704	Sept. 15	1691	407	76	1624
Bottle cap-stopper	M. Riley.....	562,243	June 16	2078	504	75	1806
Bottle-capping apparatus	H. Rau.....	560,930	May 26	2930	672	75	1308
Bottle-capping machine	J. E. M. Becker.....	558,760	Apr. 21	2189	526	75	445
Bottle-capping machine	J. B. Dodson.....	557,561	Apr. 7	47	13	75	11
Bottle-carrier	R. A. Wittemann.....	562,058	June 16	1768	428	75	1749
Bottle-case	F. A. Daly.....	557,558	Apr. 7	40	11	75	9
Bottle-closing device	J. Macek.....	573,094	Dec. 15	1773	426	77	1655
Bottle-closure	W. Laudahn.....	564,826	July 28	2771	659	76	557
Bottle-closure	W. P. Maye.....	573,518	Dec. 22	2564	609	77	1817
Bottle-closure	G. H. Phelps.....	554,833	Feb. 18	1820	426	74	879
Bottle-closure	W. Scheerer.....	570,342	Oct. 27	2906	689	77	587
Bottle-collar	M. K. Hamilton.....	571,088	Nov. 10	1203	282	77	890
Bottle-cooler	L. P. Bachand.....	563,726	July 14	834	198	76	172
Bottle-corking machines. Compressor for	E. Ermold.....	561,382	June 2	563	141	75	1479
Bottle device. Non-refilling	W. H. Payne.....	567,281	Sept. 8	969	230	76	1474
Bottle device. Non-refilling	W. H. Payne.....	567,730	Sept. 15	1771	425	76	1639
Bottle. Dose-measuring	A. A. Law.....	570,759	Nov. 3	628	144	77	753
Bottle. Elastic	L. L. Funk.....	560,984	May 26	3000	691	75	1322
Bottle-filler	W. H. Fahrney.....	563,464	July 7	383	88, 89	76	74
Bottle-filler guard	J. E. Bryan.....	572,327	Dec. 1	430	101	77	1361
Bottle filling and corking apparatus	J. C. Pennington.....	573,792	Dec. 22	3052	723	77	1911
Bottle-filling apparatus	H. Blumberg and L. Jacobson.....	571,104	Nov. 10	1242	289	77	897

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Bottle-filling apparatus	W. A. Bowie and E. J. Dodd	564,735	July 28	2616	{ 623 624	{ 76	530
Bottle-filling apparatus	F. E. McKay	559,733	May 5	638	153	75	804
Bottle-filling device	J. Iredale	553,734	Jan. 28	2234	529	74	461
Bottle-filling machine	T. B. Booth	565,598	Aug. 11	1198	288	76	857
Bottle-filling machine	W. A. Bowie and E. J. Dodd	552,983	Jan. 14	918	223	74	186
Bottle-filling machine	W. M. Fowler	554,923	Feb. 18	1980	468	74	908
Bottle-filling machine	W. M. Fowler	554,999	Feb. 18	2119	504	74	933
Bottle-filling machine	R. M. Hunter	553,854	Feb. 4	74	15	74	518
Bottle-filling machine	F. R. H. Thomas	567,555	Sept. 8	1430	344	76	1558
Bottle-filling machine	A. P. McKee	563,207	June 30	3793	909	75	2168
Bottle-filling machine	M. M. Fallon	561,877	June 9	1457	351	75	1670
Bottle holder. Nursing.	J. Meyer	562,637	June 23	2748	667	75	1947
Bottle indicating device	O. M. Chesney	568,663	Sept. 29	3421	818	76	1975
Bottle indicator	E. Reyer	555,708	Mar. 3	380	88	74	1198
Bottle indicator. Poison.	E. Shafer	562,856	June 30	3155	764	75	2041
Bottle. Ink.	H. S. Grace and A. D. Reynolds	558,064	Apr. 14	1006	{ 245 246	{ 75	506
Bottle-labeling machine	P. Kohl and H. Paulus	573,667	Dec. 22	2857	{ 674 675	{ 77	1874
Bottle-labeling machine	F. C. H. Strasburger	559,002	Apr. 28	2608	635	75	541
Bottle-molding machine	A. S. Reeves	562,154	June 16	1933	{ 469 470	{ 75	1778
Bottle. Mucilage.	C. A. Biorn	573,129	Dec. 15	1837	443	77	1667
Bottle. Mucilage.	H. M. Canan	572,524	Dec. 8	767	182	77	1439
Bottle. Mucilage.	D. T. Ellis	557,118	Mar. 31	2903	693	74	1747
Bottle. Mucilage.	F. A. Glines	563,954	July 14	1266	296	76	250
Bottle. Mucilage.	C. R. Haner	562,134	June 16	1900	460	75	1772
Bottle. Mucilage.	G. F. Hare	572,603	Dec. 8	998	220	77	1470
Bottle. Mucilage.	J. H. Hollen	558,607	Apr. 21	1927	468	75	397
Bottle. Mucilage.	D. S. Jones	563,597	July 7	612	143	76	115
Bottle. Mucilage.	J. S. L. Hommedieu	570,030	Oct. 27	2299	546	77	474
Bottle. Mucilage.	E. McChesney	573,994	Dec. 29	3445	894	77	1996
Bottle. Mucilage.	C. H. Reed	568,922	Oct. 6	346	80	77	66
Bottle. Mucilage.	C. W. Reeves	571,456	Nov. 17	1813	433	77	1019
Bottle. Mucilage.	S. O. Trescott	572,079	Nov. 24	2953	697	77	1250
Bottle. Mucilage.	W. P. Turner	564,348	July 21	1951	460	76	390
Bottle. Mucilage.	E. K. Williams	558,543	Apr. 21	1813	442	75	378
Bottle. Mucilage.	W. T. Williams	563,110	June 30	3626	869	75	2136
Bottle neck and cap	C. C. Brown	556,804	Mar. 24	2374	558	74	1623
Bottle necks. Thread-forming tool for.	J. Taylor	557,451	Mar. 31	3507	898	74	1857
Bottle nipple. Nursing.	E. C. Myrick	556,859	Mar. 24	2458	579	74	1640
Bottle. Non-refillable	J. Bird	555,556	Mar. 3	125	28	74	1153
Bottle. Non-refillable	A. Brenzinger	555,923	Mar. 10	751	182	74	1289
Bottle. Non-refillable	G. P. Clark	560,571	May 19	2227	509	75	1159
Bottle. Non-refillable	D. Hepp	556,974	Mar. 24	2656	624	74	1676
Bottle. Non-refillable	R. Kirsch	562,964	June 30	3368	810	75	2087
Bottle. Non-refillable	H. G. Wood	553,551	Jan. 28	1911	452	74	402
Bottle. Non-refillable	G. W. Bennett	574,298	Dec. 29	4028	956	77	2102
Bottle. Non-refillable	A. G. Canada	573,566	Dec. 22	2650	630	77	1833
Bottle. Non-refillable	E. A. Clair	556,003	Mar. 10	901	215	74	1319
Bottle. Non-refillable	F. Coirin	559,844	May 12	901	200	75	866
Bottle. Non-refillable	F. L. Cook	574,193	Dec. 29	3841	916	77	2067
Bottle. Non-refillable	G. W. Depro and W. H. Baker	567,081	Sept. 1	620	143	76	1399
Bottle. Non-refillable	A. S. Dunn	565,846	Aug. 11	1632	400	76	939
Bottle. Non-refillable	C. A. Elliott	566,153	Aug. 18	2193	533	76	1065
Bottle. Non-refillable	W. R. Fearn	568,243	Sept. 22	2658	636	76	1817
Bottle. Non-refillable	A. Friedman	563,713	July 7	803	192	76	150
Bottle. Non-refillable	S. P. Hill and F. Van Winkle	572,302	Dec. 1	384	91	77	1352
Bottle. Non-refillable	G. W. Johnson	572,012	Nov. 24	2806	662	77	1223
Bottle. Non-refillable	T. R. Jordan	566,322	Aug. 25	2472	{ 605 606	{ 76	1135
Bottle. Non-refillable	J. F. Kries	571,047	Nov. 10	1123	262	77	876
Bottle. Non-refillable	D. Landstra	564,895	July 28	2983	691	76	578
Bottle. Non-refillable	O. J. Moussette	571,234	Nov. 10	1453	341	77	936
Bottle. Non-refillable	J. F. Nalder	572,060	Nov. 24	2895	623	77	1239
Bottle. Non-refillable	F. P. Siviter	572,456	Dec. 1	652	154	77	1402
Bottle. Non-refillable	H. C. Small	560,942	May 26	2947	676	75	1312
Bottle. Non-refillable	G. W. Steffens	565,242	Aug. 4	573	134	76	721
Bottle. Non-refillable	F. T. and J. P. Vanstrum	573,061	Dec. 15	1712	410	77	1644
Bottle. Non-refillable	G. J. Wainwright	554,805	Feb. 18	1764	415	74	867
Bottle. Non-refillable	R. J. Watts	563,339	July 7	189	42	76	39
Bottle. Non-refillable	A. R. Weber	570,524	Nov. 3	157	38	77	667
Bottle. Non-refillable	P. Wilson	569,778	Oct. 20	1879	446	77	382
Bottle. Non-refillable	J. S. Wood, Sr.	570,273	Oct. 27	2746	654	77	559
Bottle. Non-refillable	J. W. Woodruff	573,949	Dec. 29	3350	803	77	1980
Bottle. Non-refilling	N. F. T. Hunt	561,228	June 2	266	66	75	1419
Bottle. Non-refilling	J. T. Savage	572,126	Dec. 1	58	14	77	1289
Bottle. Non-refilling	S. Taylor	570,238	Oct. 27	2683	637	77	547
Bottle. Nursing.	H. Matzen	554,071	Feb. 4	490	110	74	595
Bottle. Nursing.	W. L. Roth	571,245	Nov. 10	1472	345	77	940
Bottle or jug	L. C. Webster	573,373	Dec. 15	2276	543	77	1747
Bottle or like receptacle	W. D. Gregory	564,483	July 21	2178	510	76	432
Bottle packing case	B. S. Atwood	558,923	Apr. 28	2480	603	75	516
Bottle packing case	S. Oakman	561,912	June 9	1513	366	75	1680
Bottle-refilling. Device for preventing	W. H. Payne	566,720	Aug. 25	3163	774	76	1264
Bottle-refilling. Device for preventing	W. H. Payne	566,721	Aug. 25	3164	774	76	1264
Bottle-refilling. Device for preventing	W. H. Payne	566,722	Aug. 25	3165	774	76	1264
Bottle. Safety.	T. McGinn	565,781	Aug. 11	1525	371	76	920
Bottle-seal stoppers. Machine for making.	E. V. Clemens	557,554	Apr. 7	36	10	75	9
Bottle. Siphon.	R. Frax	565,922	Aug. 18	1788	435	76	988
Bottle. Siphon.	S. Taylor	554,154	Feb. 4	655	148	74	625
Bottle-stopper	H. P. and S. L. Barnhart	561,191	June 2	213	51	75	1408
Bottle-stopper	H. P. and S. L. Barnhart	564,732	July 28	2611	622	76	529

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Bottle-stopper.	A. L. Bernardin	572,951	Dec. 15	1523	364	77	1606
Bottle-stopper.	J. A. Buckely	560,836	May 26	2742	629	75	1274
Bottle-stopper.	A. G. Carlson	559,360	May 5	13	5	75	684
Bottle-stopper.	W. E. Cook	563,568	July 7	570	131	76	107
Bottle-stopper.	W. J. Cunningham	558,722	Apr. 21	2123	512	75	432
Bottle-stopper.	W. J. Cunningham	558,782	Apr. 21	2227	536	75	451
Bottle-stopper.	C. H. Davis	554,389	Feb. 11	1046	243	74	714
Bottle-stopper.	M. N. Ellard	566,152	Aug. 18	2192	533	76	1065
Bottle-stopper.	E. M. Engelman	566,386	Aug. 25	2599	634	76	1159
Bottle-stopper.	J. Flanigan	567,781	Sept. 15	1820	437	76	1648
Bottle-stopper.	E. E. Ford and C. Schlundt	567,852	Sept. 15	1950	467	76	1674
Bottle-stopper.	W. M. Fowler	563,469	July 7	391	90	76	76
Bottle-stopper.	H. Friedman and H. M. Koelbel	573,212	Dec. 15	1980	477	77	1693
Bottle-stopper.	C. K. Fuchs	573,589	Dec. 22	2686	638	77	1841
Bottle-stopper.	J. Goettel	561,883	June 9	1464	354	75	1671
Bottle-stopper.	J. C. Grout	572,006	Nov. 24	2799	880	77	1221
Bottle-stopper.	A. L. A. Himmelwright	561,787	June 9	1305	313	75	1642
Bottle-stopper.	G. A. Hoffman	572,704	Dec. 8	1087	264	77	1405
Bottle-stopper.	T. W. Howson	559,079	Apr. 28	2740	666	75	566
Bottle-stopper.	K. Hutter	562,225	June 16	2048	495	75	1800
Bottle-stopper.	E. T. Jenkins, Sr.	567,394	Sept. 8	1183	282	76	1512
Bottle-stopper.	G. Koehler	571,949	Nov. 24	2704	640	77	1205
Bottle-stopper.	S. Lacavalerie	563,974	July 14	1298	303	76	256
Bottle-stopper.	H. Leidel	558,397	Apr. 14	1558	380	75	311
Bottle-stopper.	E. L. Lloyd	565,362	Aug. 4	750	179	76	756
Bottle-stopper.	E. W. Manning	561,013	May 26	3049	701	75	1331
Bottle-stopper.	G. W. Mason	570,602	Nov. 3	314	77	77	697
Bottle-stopper.	O. H. R. Nienaber	559,195	Apr. 28	2994	722	75	615
Bottle-stopper.	W. A. Palmer	556,205	Mar. 10	1267	301	74	1387
Bottle-stopper.	A. J. Robinson	565,233	Aug. 4	560	131	76	718
Bottle-stopper.	F. C. Rockwell	573,239	Dec. 15	2028	486	77	1701
Bottle-stopper.	J. Schumacher	573,301	Dec. 15	2150	515	77	1723
Bottle-stopper.	J. Schumacher	573,360	Dec. 15	2259	539	77	1743
Bottle-stopper.	G. W. Steffens	561,356	June 2	520	131	75	1470
Bottle-stopper.	F. B. Thatcher	574,013	Dec. 29	3476	830	77	2002
Bottle-stopper.	F. W. Waterman	568,286	Sept. 22	2723	653	76	1831
Bottle-stopper.	J. C. Weitzel	562,327	June 16	2217	540	75	1832
Bottle-stopper.	J. P. White	565,194	Aug. 4	458	110	76	701
Bottle-stopper.	J. A. Woodworth	567,874	Sept. 15	1979	475	76	1680
Bottle-stopper and bottle	C. Dorn and N. Reinstine	569,181	Oct. 13	796	166	77	168
Bottle stopper and fastener	C. K. Fuchs	573,588	Dec. 22	2685	638	77	1841
Bottle stopper attachment	A. J. Robinson	572,772	Dec. 8	1212	293	77	1528
Bottle stopper attachment	A. J. Robinson and J. C. Doran	565,392	Aug. 4	800	190	76	765
Bottle stopper attachment. Ink.	G. R. Weed	552,859	Jan. 7	670	163	74	127
Bottle-stopper. Lock	J. W. Jacobs	572,758	Dec. 8	1188	286	77	1523
Bottle-stopper. Registering	O. E. Michaud	564,410	July 21	2060	492	76	411
Bottle-stopper. Safety	L. Landau	553,651	Jan. 28	2091	493	74	433
Bottle-top	J. A. Moller, Jr.	565,012	Aug. 4	84	20	76	633
Bottle. Two-compartment	H. Gallagher	559,697	May 5	584	138	75	793
Bottle valve. Nursing	G. Washington and C. B. Roberts	564,416	July 21	2068	484	76	413
Bottle valve-stopper	J. Bazant, Jr.	560,078	May 12	1347	302	75	950
Bottle valve-stopper	J. W. Simons	573,490	Dec. 22	2524	598	77	1809
Bottle-washer	P. Hamm and J. W. Pertz	565,456	Aug. 11	912	217	76	805
Bottle-washer	M. R. Irrgang	568,685	Sept. 29	3477	827	76	1982
Bottle-washer	J. L. Kihn and W. T. Reed	573,885	Dec. 29	3237	770	77	1959
Bottle-washer	J. F. Leeper	574,155	Dec. 29	3780	889	77	2048
Bottle-washer	E. R. Richards	566,471	Aug. 25	2788	677	76	1194
Bottle-washer	J. Maslin and M. J. McHugh	558,505	Apr. 21	1757	427	75	365
Bottle-washer	S. Scam and J. Muth	563,068	June 30	3528	847	75	2118
Bottle-washing machine	M. E. Donally	555,598	Mar. 3	194	45, 46	74	1165
Bottle-washing machine.	F. Houska	556,822	Mar. 24	2402	564, 565	74	1628
Bottle-washing-machine attachment	R. Kufs	560,904	May 26	2881	661	75	1300
Bottle-wrapper	J. J. Hinde	563,962	July 14	1278	300	76	253
Bottles. Apparatus for removing foil from	G. A. Mueller	553,997	Feb. 4	358	79	74	571
Bottles. Attachment for preventing refilling of	A. D. Cole	571,967	Nov. 24	2733	646	77	1210
Bottles. Attachment for preventing refilling of	A. D. Cole	571,968	Nov. 24	2734	646	77	1210
Bottles. Cap to prevent refilling	J. J. Walsh	555,348	Feb. 25	2751	644	74	1067
Bottles. Device for preventing refilling	D. Lippy and D. L. Zahniser	558,189	Apr. 14	1204	294	75	245
Bottles. Device for preventing refilling	C. Booker	561,084	June 2	10	3	75	1369
Bottles for sterilizing purposes. Closure of	J. Schäfer	558,848	Apr. 21	2332	567	75	472
Bottles, jugs, &c. Fastener for	L. D. Murphy	565,629	Aug. 11	1251	301	76	867
Bottles. Puzzle-stopper for confectionery	J. A. Ferg	554,920	Feb. 18	1976	467	74	907
Bottles. Stoppering	W. Brooke	562,065	June 16	1793	434	75	1751
Bottles, vessels, &c. Closure for	J. R. Trisler	568,120	Sept. 22	2449	588	76	1778
Bottled liquors. Controlling device for	T. Hollander	558,280	Apr. 14	1360	332	75	274
Bottling apparatus.	M. E. Donally	569,180	Oct. 13	793	186	77	167
Bottling apparatus. Beer	C. Meldrum	572,708	Dec. 8	1096	266	77	1506
Bottling-machine	B. B. Badger	553,047	Jan. 14	1013	248, 249	74	204
Bottling-machine.	R. M. Hunter	555,166	Feb. 25	2426	575, 576	74	1007
Bottling-machine	E. L. Miller	564,528	July 21	2245	527	76	444
Bottom for metallic vessels	D. A. Lisk	555,457	Feb. 25	2957	703	74	1106
Bouquet-holder	L. W. Baldwin	556,728	Mar. 24	2232	521	74	1597
Bouquet-holder	J. M. Johnston	568,114	Sept. 22	2436	585	76	1775
Bouquet-holder	W. H. McWhirter	563,208	June 30	3794	909	75	2168
Bouquet-holder	A. Nicolaus and W. J. Delmar	572,612	Dec. 8	926	224	77	1474
Bow for stringed instruments	G. A. Kretschmar	566,718	Aug. 25	3160	773	76	1263
Bowl. Wash	G. C. Geraty	564,372	July 21	1994	468	76	398
Bowling-alley	F. G. Dokkenwadel	563,362	July 7	220	49	76	45
Bowling-alley	J. N. Meyer	566,273	Aug. 18	2373	581	76	1100
Bowling-alley	F. A. Pratt	572,073	Nov. 24	2946	693	77	1249

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Bowling-alley.....	W. H. Wiggins.....	552,801	Jan. 7	559	136	74	106
Bowling-alley indicator.....	F. Becker.....	559,352	May 5	5	2	75	682
Bowling-alleys. Ball-runway for.....	W. H. Wiggins.....	554,611	Feb. 11	1435	337	74	788
Bowling-alleys. Machine for planing.....	J. Emig.....	567,821	Sept. 15	1895	454	76	1663
Box:							
<i>See</i> Axle-box. Lunch-box.							
Babbitt box. Mail-box.							
Ballot-box. Mailing-box.							
Bicycle tool-box. Match-box.							
Blacking-box. Metallic or composite box.							
Bread-box. Miter-box.							
Burial-casket box. Music-box.							
Car sand-box. Musical box.							
Car sanding-box. Newspaper-box.							
Card-box. Oiling-box.							
Cigar-box. Outlet-box.							
Cigarette-box. Packing-box.							
Coal and wood box. Packing and display box.							
Collapsible box. Packing and shipping box.							
Dice-box. Paper box.							
Display-box. Pepper and salt box.							
Distributing-box. Pill-box.							
Electric wall-box. Postal-car paper-box.							
Fancy box. Salt and pepper box.							
Fare-box. Sand-box.							
Feed-box. Sanding-box.							
File-box. Signal-box.							
Folding box. Spool-box.							
Folding-partition box. Stop-box.							
Fruit-box. Store and display box.							
Fuse-box. Stuffing-box.							
Grain-box. Toilet-box.							
Hat-box. Tooth-powder box.							
Journal-box. Turpentine-box.							
Junction-box. Vehicle-box.							
Knockdown box. Wheel-box.							
Letter-box.							
Box.....	Z. A. Barrett.....	573,753	Dec. 22	2996	710	77	1900
Box.....	J. D. Battin.....	557,101	Mar. 31	2876	687	74	1742
Box.....	G. E. Clow.....	571,747	Nov. 24	2343	560	77	1135
Box.....	C. A. Grant.....	557,120	Mar. 31	2909	695	74	1749
Box.....	C. M. Green.....	573,782	Dec. 22	3034	719	77	1908
Box.....	J. Hollinger.....	559,451	May 5	182	40	75	717
Box.....	A. J. Welander.....	557,461	Mar. 31	3523	842	74	1860
Box.....	M. Young.....	570,530	Nov. 3	172	45, 46	77	669
Box and making same.....	P. E. Beach.....	567,957	Sept. 22	2120	511	76	1720
Box-corners. Apparatus for applying metal strips to.....	O. and M. Schubert.....	569,567	Oct. 13	1474	347	77	294
Box-corners. Machine for attaching stays to.....	M. D. Knowlton.....	557,401	Mar. 31	3426	{ 822 823 }	74	1842
Box-corners. Metal strip for.....	O. and M. Schubert.....	569,568	Oct. 13	1478	348	77	294
Box-cover.....	W. Clasen.....	562,577	June 23	2651	642	75	1929
Box-cover.....	G. R. Eager and J. A. White.....	561,874	June 9	1454	350	75	1669
Box-cover brace or support.....	C. R. Georg.....	569,193	Oct. 13	818	192	77	171
Box-cover fastener.....	D. W. Keeler.....	556,932	Mar. 24	2583	608	74	1662
Box-cover machine.....	B. M. Gunston.....	567,094	Sept. 1	638	{ 148 149 }	76	1403
Box-covers. Machine for making.....	C. Loyens and A. Paulson.....	557,516	Mar. 31	3632	871	74	1880
Box-fastener.....	C. W. Beebler.....	568,936	Oct. 6	368	84	77	71
Box-fastener.....	T. C. Blanchard.....	556,245	Mar. 10	1356	319	74	1400
Box-fastener.....	E. H. Fenton.....	555,688	Mar. 3	348	80	74	1192
Box-fastener.....	T. H. Macdonald.....	562,137	June 16	1904	461	75	1773
Box-fastener.....	T. E. Sayre.....	564,315	July 21	1899	448	76	381
Box-fastener.....	C. Tollner.....	564,661	July 23	2488	587	76	508
Box-fastener.....	F. Trambly.....	564,347	July 21	1950	460	76	390
Box for distributing pulverulent material.....	C. Oesterheld.....	573,032	Dec. 15	1655	398	77	1633
Box for stamps, plaster, &c.....	L. Hausmann.....	561,394	June 2	585	146	75	1482
Box-handling instrument.....	G. C. Bemis.....	555,997	Mar. 10	891	213	74	1317
Box-lid holder.....	W. T. Marsh.....	573,156	Dec. 15	1878	452	77	1674
Box-lids. Counterpoise-spring for.....	E. E. Peck.....	563,058	June 30	3511	843	75	2114
Box-machine.....	J. K. Ashley.....	564,240	July 21	1769	{ 413 414 }	76	359
Box-machine.....	W. A. Preston.....	560,928	May 26	2927	{ 671 672 127 }	75	1308
Box-machine.....	O. A. Sanford.....	552,782	Jan. 7	522	{ 128 129 }	74	98
Box-machine.....	C. W. Van Vleet and J. P. Osborne.....	566,823	Sept. 1	138	34, 35	76	1307
Box machine. Cut-off.....	C. B. Southard.....	554,152	Feb. 4	647	147	74	623
Box-making machine.....	E. B. Beecher and J. P. Wright.....	554,975	Feb. 18	2066	{ 491 492 493 }	74	924
Box-making machine.....	H. Goo and S. B. Hopkins.....	557,798	Apr. 7	494	{ 118 119 636 637 }	75	94
Box-making machine.....	C. Loyens and A. Paulson.....	556,997	Mar. 24	2697	{ 638 639 640 }	74	1684
Box-nailing machine.....	H. W. Becht.....	553,094	Jan. 14	1109	{ 269 270 }	74	222
Box-nailing machine.....	S. D. Ford.....	572,418	Dec. 1	592	141	77	1391
Box-nailing machine.....	H. R. Kumler.....	574,365	Dec. 29	4137	{ 982 983 }	77	2122

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Box-nailing machine	H. W. Morgan	556,430	Mar. 17	1736	404	74	1487
Box-nailing-machine table	B. S. Atwood	561,692	June 9	1124	268	75	1608
Box or container for rosin, &c.	J. E. J. Bonn	562,795	June 30	3026	730	75	2018
Box-shuck-making machine	C. Loyens and A. Paulson	556,996	Mar. 24	2691	634 635 636	74	1683
Box-staying machine	H. Inman	555,814	Mar. 3	545	131	74	1229
Box-staying machine	H. Inman	555,815	Mar. 3	546	131	74	1229
Box-staying machine	H. Inman	555,816	Mar. 3	548	131	74	1230
Box-staying machine	H. and H. A. Inman	555,812	Mar. 3	539	130	74	1228
Box-staying machine	H. and H. A. Inman	555,813	Mar. 3	542	130 131	74	1228
Box-staying machine	H. A. Inman	555,817	Mar. 3	550	132	74	1230
Box-strap	G. A. Moltz	564,569	July 21	2332	547	76	459
Box-strap. Metal	J. A. Bowler	568,510	Sept. 29	3109	749	76	1917
Boxes from paper-board, &c. Machine for manufac- turing	A. Beran	561,853	June 9	1431	344 345	75	1665
Boxes in place. Means for holding	J. P. Womble	558,332	Apr. 14	1445	355	75	291
Boxes, &c. Machine for applying adhesive strips to	H. and H. A. Inman	555,811	Mar. 3	536	129 130 131	74	1227
Boxes. Machine for making shells for sliding	H. R. Corkhill, Jr	554,987	Feb. 18	2088	496 497 498	74	928
Boxes made of cardboard, &c. Construction of fold- ing	R. H. Filmer	561,508	June 2	790	192 193	75	1520
Boxes or cans. Machine for placing covers on	C. A. Gildemeyer	563,160	June 30	3706	886 887	75	2151
Boxes, shelving, &c. Adjustable partition for	N. Knowles	568,910	Oct. 6	327	75	77	63
Boxing-machine	W. F. Hutchinson	569,133	Oct. 6	714	168	77	136
Brace: See Bicycle stand-brace. Post-brace. Bit-brace. Saw-brace. Chair-brace. Sweep-brace. Leg-brace. Track-brace.							
Brace	G. A. Preusser	564,222	July 21	1740	407	76	353
Brace-pocket	D. L. Barnes	553,048	Jan. 14	1018	249	74	205
Bracelet	J. Forsheim	554,417	Feb. 11	1106	257	74	726
Bracelet-fastening	R. Senner	564,654	July 28	2478	585	76	506
Bracket: See Awning-bracket. Metal bracket. Bicycle-lamp bracket. Roofing-bracket. et. Scaffold-bracket. Curtain-bracket. Shade and curtain bracket. et. Curtain-pole bracket. Shelf-bracket. Curtain-roll bracket. Shingling-bracket. Door guide-bracket. Show-case bracket. Hose-bracket. Stage-bracket. Ladder-bracket. Transmitter-bracket. Lever-bracket.							
Bracket	F. E. Hartzell	565,539	Aug. 11	1089	262	76	838
Bracket	A. R. Kunz	573,985	Dec. 29	3428	821	77	1993
Bracket	E. Lenney	562,229	June 16	2054	496	75	1801
Bracket	F. D. Martin	573,891	Dec. 29	3244	772	77	1960
Bracket. Adjustable end-supporting	H. D. Jones	552,530	Jan. 7	46	15	74	11
Bracket and hook	C. O. Buell	564,468	July 21	2154	504	76	427
Bracket for supporting tank-pipes	E. H. Israel	553,161	Jan. 14	1226	298	74	245
Bracket for third suspension-hangers	H. B. Robischung	560,430	May 19	1997	456	75	1119
Braid-rack and show-case	J. W. Schloss	556,068	Mar. 10	1040	248	74	1341
Braiding-machine	A. B. Diss	572,357	Dec. 1	477	112	77	1369
Braiding-machine	W. C. Fisher	552,994	Jan. 14	934	226	74	189
Braiding-machine	J. W. Hilton	573,411	Dec. 15	2336	558	77	1757
Braiding-machine	H. Janssen	573,598	Dec. 22	2707	642 643	77	1846
Braiding-machine	F. C. Reinhardt	554,309	Feb. 11	919	211	74	690
Brake: See Accumulating-brake. Fluid-pressure automatic Air-brake. brake. Automatic brake. Hand-brake. Axle-brake. Machine-brake. Bicycle-brake. Power-brake. Car-brake. Railway-brake. Car power-brake. Shaft-brake. Car safety-brake. Sleigh-brake. Carriage-brake. Track-brake. Electric brake. Vehicle-brake. Elevator-brake. Velocipede-brake. Fire-escape safety-brake. Wagon-brake. Fluid-pressure brake. Wheel-brake.							
Brake	J. F. Burgin	569,486	Oct. 13	1310	309	77	264
Brake	O. M. Gould	564,246	July 21	1775	415 416	76	361
Brake	F. W. Kruse and C. Holstein	571,004	Nov. 10	1052	245	77	863
Brake	C. G. Polleys	569,124	Oct. 6	694	162	77	132
Brake	W. H. Sauvage	569,476	Oct. 13	1293	304	77	260
Brake-actuating device	E. S. Hall	572,255	Dec. 1	284	68	77	1333
Brake apparatus. Automatic fluid-pressure	T. J. Hogan	551,623	Feb. 11	1462	342 343	74	793
Brake apparatus. Fluid-pressure	R. A. Parke	553,475	Jan. 21	1768	422	74	359
Brake-beam	F. B. Aglar	557,934	Apr. 7	719	173	75	136
Brake-beam	J. J. Casey	565,879	Aug. 18	1705	417	76	970
Brake-beam	F. L. Lamkey	558,965	Apr. 28	2547	617	75	529
Brake-beam	F. L. Lamkey	558,966	Apr. 28	2549	618	75	530
Brake-beam	F. L. Lamkey	563,284	July 7	85	21	76	18

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Brake-beam	C. K. Pickles	569,666	Oct. 20	1655	391	77	344
Brake-beam	C. K. Pickles	569,667	Oct. 20	1656	391	77	344
Brake-beam	H. B. Robischung	568,044	Sept. 22	2295	556	76	1750
Brake-beam	H. B. Robischung	570,057	Oct. 27	2342	556	77	482
Brake-beam	C. J. Rosen, Jr.	572,569	Dec. 8	846	203	77	1458
Brake-beam	C. L. Sullivan and C. E. Burnap	567,664	Sept. 15	1628	392 393	76	1612
Brake-beam	A. P. Williams	560,558	May 19	2207	504	75	1155
Brake-beam	H. C. Williamson	565,060	Aug. 4	167	39	76	646
Brake-beam fulcrum-post	H. B. Robischung	558,521	Apr. 21	1786	434	75	371
Brake-beam hanger	E. Marcotte	570,323	Oct. 27	2878	683	77	582
Brake-block	L. C. Lambert	559,294	Apr. 28	3178	767	75	647
Brake-handle	P. G. Emery	558,371	Apr. 14	1511	371	75	303
Brake-handle	C. H. Gaffney	553,848	Feb. 4	65	13	74	517
Brake-handle cap	J. De Moulin	558,899	Apr. 21	2425	590	75	490
Brake-lever	J. B. Burkett	557,549	Apr. 7	29	8	75	8
Brake-lever bottom bar	C. Hackney	557,122	Mar. 31	2912	696	74	1749
Brake-lever. Differential	J. A. Brill	554,234	Feb. 11	782	179 180	74	664
Brake-lever. Vehicle	C. Doering	571,854	Nov. 24	2530	599	77	1170
Brake mechanism	J. Shourek	571,697	Nov. 17	2230	536 537	77	1095
Brake-pipe coupling	M. L. Weaver	563,108	June 30	3623	868	75	2535
Brake-rigging slack-adjuster	D. C. O'Kain	573,613	Dec. 22	2730	648 649	77	1850
Brake-rod	J. W. Cook and C. Scott	552,824	Jan. 7	612	149	74	115
Brake-shoe	E. W. Applegate	568,226	Sept. 22	2629	632	76	1813
Brake-shoe	E. W. Applegate	569,983	Oct. 20	2217	527	77	444
Brake-shoe	A. Brake	573,429	Dec. 15	2404	573	77	1770
Brake-shoe	W. S. Dehart	561,972	June 16	1617	393	75	1721
Brake-shoe	C. L. Jeffrey	553,470	Jan. 21	1762	420	74	358
Brake-shoe	A. A. Lindley	573,227	Dec. 15	2010	482	77	1699
Brake-shoe	W. A. McGuire	563,297	July 7	107	26	76	23
Brake-shoe	J. McLachlan	573,523	Dec. 22	2572	610	77	1818
Brake-shoe	W. Myers	567,992	Sept. 22	2190	527	76	1731
Brake-shoe	D. Prew	569,978	Oct. 20	2210	525	77	443
Brake-shoe	H. B. Robischung	561,815	June 9	1351	322	75	1649
Brake-shoe	W. D. Sargent	555,975	Mar. 10	846	202	74	1308
Brake-shoe	G. W. Stevens	568,609	Oct. 6	163	39	77	33
Brake-shoe	W. W. Whitcomb	562,346	June 16	2262	549	75	1840
Brake-shoe	W. W. Whitcomb and F. F. Coggin	573,252	Dec. 15	2048	491	77	1706
Brake-shoe	J. L. Wicks	573,376	Dec. 15	2282	544	77	1748
Brake-shoe anchor	H. C. Williamson	567,429	Sept. 8	1234	297	76	1521
Brake-shoe. Composite	W. W. Whitcomb	562,872	June 30	3186	771	75	2048
Brake-shoe connection	J. J. Kinzer, Jr.	565,004	Aug. 4	74	18	76	631
Brake-slack-adjuster	J. K. Lencke	568,777	Oct. 6	114	27	77	23
Brake-slack adjuster. Automatic	H. Pitkethly	564,220	July 21	1736	406 407	76	352
Brake-staff	A. M. Ammons	564,960	Aug. 4	1	1	76	617
Brakes. Safety appliance for electric	W. B. Potter	555,585	Mar. 3	170	40	74	1161
Branding and dehorning device	Q. Bruton	571,428	Nov. 17	1768	422	77	1010
Branding sheep or other animals. Appliance for	H. W. Potter	569,515	Oct. 13	1373	322	77	275
Branning-machine	C. R. Daellenbach and J. R. Phillips	572,450	Dec. 22	2454	582	77	1797
Brass. Machine for making scraped	E. G. Smith	574,226	Dec. 29	3909	929	77	2079
Bread-box	J. D. Meng	560,811	May 26	2698	620	75	1265
Bread box and slicer	C. Person	572,820	Dec. 8	1291	310	77	1543
Bread-making machine	G. Lewis and C. E. Pointon	571,774	Nov. 24	2387	570 571	77	1144
Bread-raising apparatus	J. Berntsen	569,605	Oct. 20	1549	364	77	323
Bread-raising apparatus	G. W. Cowan	554,479	Feb. 11	1212	282	74	745
Breaking-rig	H. Kenner	554,880	Feb. 18	1909	449	74	894
Breast-drill	A. D. and H. E. Goodell	557,328	Mar. 31	3299	791	74	1817
Breast-strap	J. R. Henry	554,690	Feb. 18	1578	371	74	832
Breast-strap slide	H. D. Warner	573,559	Dec. 22	2637	626	77	1831
Breech-block. Screw-threaded	A. Welin	552,561	Jan. 7	101	29	74	21
Breeching-strap	B. P. M. Lang	559,722	May 5	621	149	75	801
Brick. Building	O. Kleinberger	556,271	Mar. 10	1410	331	74	1411
Brick-carrier	A. L. Fulton and T. W. Petersen	567,464	Sept. 8	1291	313	76	1532
Brick. Composition for fire	K. H. Dangler	572,969	Dec. 15	1558	...	77	1613
Brick-drying car	S. D. Wright and J. W. Hornsey	566,490	Aug. 25	2814	686	76	1199
Brick-drying rack	J. F. Mock	568,034	Sept. 22	2279	551	76	1747
Brick-kiln	A. M. Bishop	565,594	Aug. 11	1192	286	76	856
Brick-kiln	M. M. and F. F. Bushong	562,706	June 23	2859	695	75	1967
Brick-kiln	C. E. Coates and L. Hancock	573,445	Dec. 22	2442	579 580	77	1795
Brick-kiln	J. T. Cullens	572,474	Dec. 1	674	160 161	77	1407
Brick-kiln	H. J. Flood	566,157	Aug. 18	2198	535 536	76	1066
Brick-kiln	P. L. Youngren	556,295	Mar. 10	1481	344 345	74	1423
Bricklayer's combination-tool	W. H. Grim	558,383	Apr. 14	1536	376	75	307
Brick-machine	A. E. Bigelow	559,094	Apr. 28	2773	671	75	573
Brick-machine	J. Crabtree	571,750	Nov. 24	2348	561 562	77	1136
Brick-machine	W. E. Damon	535,805	Mar. 3	526	127	74	1226
Brick-machine	C. S. Meyers	565,291	Aug. 4	635	151	76	733
Brick-machine	J. A. Thompson	564,263	July 21	1810	424 425	76	366
Brick-machine	H. B. Whitehead	571,629	Nov. 17	2121	509 510	77	1074
Brick-machine	T. T. Wood	553,884	Feb. 4	137	27	74	531
Brick-machine	T. T. Wood	553,885	Feb. 4	140	27, 28	74	532

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Disc.	Vol.	Page.
Brick-machine cut-off	P. H. Kells	565,210	Aug. 4	482	{ 114 115 66 68 }	76	706
Brick-machine. Hydraulic	W. N. Graves	565,111	Aug. 4	279	{ 67 68 }	76	668
Brick-machine. Hydraulic	W. N. Graves	565,112	Aug. 4	287	68	76	670
Brick-machine. Hydraulic	W. N. Graves	565,113	Aug. 4	288	68, 69	76	670
Brick-mold. Sectional	J. M. Ervin	573,455	Dec. 22	2465	585	77	1799
Brick or building-block	W. L. Woods and J. E. Ruebsam	563,351	July 7	204	46	76	42
Brick or tile cutting machine	J. Bensing	563,252	July 7	22	3, 4	76	6
Brick or tile cutting machine	W. R. Cunningham	573,263	Dec. 15	2066	{ 494 495 496 }	77	1708
Brick or tile cutting machine	J. A. Frey	554,816	Feb. 18	1794	421	74	874
Brick-press	T. Whittaker	566,105	Aug. 18	2115	515	76	1051
Brick-press. Hydraulic	G. Langer	570,314	Oct. 27	2861	{ 678 679 }	77	579
Brick-pressing apparatus	R. T. Hughes and J. Gill	573,514	Dec. 22	2558	{ 606 607 }	77	1816
Brick-re-pressing machine	W. W. Wallace	555,349	Feb. 25	2752	{ 644 645 }	74	1067
Brick rougher and sander	J. G. Kerst	556,988	Mar. 24	2677	631	74	1680
Brick rougher and sander	J. G. Kerst	567,542	Sept. 8	1405	338	76	1553
Brick veneer	G. S. Balsley	555,358	Feb. 25	2771	649	74	1071
Brickwork. Expansion-joint for	S. G. Smith	552,787	Jan. 7	530	130	74	99
Bridge	B. L. Blair	568,830	Oct. 6	195	47	77	39
Bridge	H. F. Mitchell	562,191	June 16	1999	484	75	1791
Bridge	J. I. Newburg	565,020	Aug. 4	102	24, 25	76	637
Bridge	E. Thacher	570,239	Oct. 27	2684	637	77	547
Bridge and automatic gate therefor. Draw	W. E. Aston	567,875	Sept. 15	1981	475	76	1680
Bridge-approach gate	E. F. Brooke and J. S. Trott	554,767	Feb. 18	1710	401	74	857
Bridge. Bascule or tilting	E. S. Shaw	564,164	July 14	1649	{ 385 386 387 }	76	322
Bridge. Compound-truss	J. H. Semmes	566,233	Aug. 18	2316	{ 566 567 }	76	1090
Bridge. Concrete	A. Geisel	568,673	Sept. 29	3435	822	76	1978
Bridge. Concrete	A. Geisel	571,225	Nov. 10	1432	334	77	933
Bridge. Draw	E. B. Jennings	554,390	Feb. 11	1049	244	74	714
Bridge-flooring	C. E. Fowler	559,774	May 5	731	175	75	820
Bridge-gate	F. W. Mase	558,192	Apr. 14	1208	295	75	246
Bridge-gate	W. E. Prindle	562,660	June 23	2783	{ 675 676 }	75	1953
Bridge-gate	F. M. Smith	572,318	Dec. 1	415	98	77	1358
Bridge-gate. Draw	W. R. Brehmer	552,511	Jan. 7	16	5	74	6
Bridge-gate. Draw	J. Hughes	568,761	Oct. 6	88	21	77	19
Bridge-gate. Draw	C. J. Lavey	570,029	Oct. 27	2298	{ 545 546 }	77	473
Bridge-gate or guard. Lift	W. Herne	560,501	May 19	2113	483	75	1139
Bridge-guard	T. H. Andrew	566,980	Sept. 1	324	89, 90	76	1355
Bridge-guard	P. J. Kroehnke	561,671	June 9	1078	260	75	1599
Bridge safety appliance. Draw	J. Coup	561,375	June 2	553	139	75	1477
Bridge safety device. Draw	J. Coup	562,805	June 30	3047	{ 736 737 738 }	75	2021
Bridge. Swing	J. A. McNicol	558,202	Apr. 14	1225	298	75	248
Bridges. Abutment-guard mechanism for	R. P. Clark	557,106	Mar. 31	2886	690	74	1744
Bridges and railway-crossings. Safety-gate for draw	W. F. Condon	563,019	June 30	3446	829	75	2103
Bridges, &c. Tubular frame for	R. Mannesmann	555,015	Feb. 18	2149	513	74	938
Bridle	J. A. Reils	566,798	Sept. 1	105	26	76	1300
Bridle-bit	H. H. Bates	574,058	Dec. 29	3557	849	77	2018
Bridle-bit	J. Cramer	574,304	Dec. 29	4038	959	77	2104
Bridle-bit	C. H. Falls	559,273	Apr. 28	3145	760	75	642
Bridle-bit	I. Harmanson	571,563	Nov. 17	2012	478	77	1054
Bridle-bit	A. F. Kiehl	570,312	Oct. 27	2858	677	77	578
Bridle-bit	H. G. Leisenring	567,033	Sept. 1	529	124	76	1382
Bridle-bit	E. M. McCulloch and C. Buckley	557,862	Apr. 7	599	142	75	113
Bridle-bit	D. H. Nash	568,097	Sept. 22	2409	580	76	1771
Bridle-bit	A. M. Peadleton	567,950	Sept. 15	2104	507	76	1702
Bridle-bit	R. Sommer and E. Polzin	556,564	Mar. 17	1972	460	74	1530
Bridle-bit	H. S. Squier	559,932	Jan. 14	836	{ 202 203 }	74	170
Bridle-bit cheek-piece	F. A. Clark	565,432	Aug. 11	867	205	76	797
Bridle-blind	J. W. Emmons	571,944	Nov. 24	2696	638	77	1203
Bristle-assorting machine	T. G. Thompson	560,870	May 26	2822	647	75	1288
Broiler	A. Herz	570,754	Nov. 3	620	143	77	752
Broiler	R. K. Lee	567,400	Sept. 8	1192	285	76	1514
Broiler. Meat	G. W. Aldrich	557,096	Mar. 31	2869	666	74	1741
Broiler. Meat	C. Devoy	565,107	Aug. 4	270	65	76	667
Bromotheophyllin and making same	E. Fischer	571,353	Nov. 17	1654	.....	77	990
Bronze to surfaces of paper, &c. Apparatus for ap- plying	C. A. Ruddock	553,941	Feb. 4	256	55	74	552
Brooder. Chicken	E. F. Hodgson	564,689	July 28	2531	599	76	515
Broom	J. Bowell	554,214	Feb. 4	743	169	74	642
Broom	L. C. Richardson	559,607	May 5	439	103	75	768
Broom	L. T. M. Slocum	565,042	Aug. 4	140	33	76	644
Broom attachment	H. G. Johnson	566,519	Aug. 25	2861	695	76	1208
Broom attachment	J. S. Williams	570,358	Oct. 27	2929	696	77	592
Broom-back holder	A. Cowperthwait	557,303	Mar. 31	3255	{ 720 721 }	74	1808
Broom-head	D. F. Cook and H. U. Abbott	568,836	Oct. 6	203	49	77	40
Broom-head	S. A. McIver and E. M. Debruhl	568,267	Sept. 22	2693	645	76	1824
Broom-holder	S. Conrath and S. Krider	554,657	Feb. 18	1526	360	74	821
Broom-holder	H. A. Frantz	555,085	Feb. 25	2292	546	74	980
Broom or brush	W. J. Bradt	557,104	Mar. 31	2879	688	74	1743

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Broom or brush bridle	F. S. Hann	570,927	Nov. 10	923	214	77	839
Broom or mop holder	J. W. McIlhany	566,787	Sept. 1	87	22	76	1296
Broom-scraper	J. B. Waring	568,552	Sept. 29	3202	771	76	1933
Broom-trimming machine	D. A. Devendorf	561,770	June 9	1271	303	75	1636
Brooms. Manufacture of	J. H. Gibson	568,136	Sept. 22	2476	594	76	1783
Brooms. Manufacture of	A. Stephen	553,365	Jan. 21	1593	380	74	326
Brush	D. E. Ballam	565,589	Aug. 11	1183	285	76	855
Brush	B. S. Baxter	573,198	Dec. 15	1957	470	77	1689
Brush	A. C. Estabrook	555,687	Mar. 3	347	80	74	1192
Brush	J. W. Goulding and W. C. Kemble	553,402	Jan. 21	1649	394	74	336
Brush	P. Hochet	558,950	Apr. 28	2524	612	75	525
Brush	G. P. Kato, Jr.	571,569	Nov. 17	2019	480	77	1055
Brush	F. N. Look	572,347	Dec. 1	453	106	77	1365
Brush	J. A. Maloney	557,844	Apr. 7	570	137	75	107
Brush	E. Morris	555,654	Mar. 3	299	70	74	1184
Brush	A. Schuck	573,711	Dec. 22	2931	693	77	1887
Brush	M. H. Tupper	560,662	May 26	2450	561	75	1216
Brush	L. H. Van Zandt	556,873	Mar. 24	2492	587	74	1645
Brush	H. Wehner	553,374	Jan. 21	1611	384	74	329
Brush. Air	O. C. Wold	555,669	Mar. 3	325	75	74	1188
Brush. Bath	F. H. Bloemker	559,434	May 5	155	33	75	711
Brush. Blacking	A. M. Ingargiola	558,390	Apr. 14	1551	378	75	310
Brush. Blacking	G. P. Neal	558,412	Apr. 14	1583	387	75	315
Brush. Blacking	J. C. Wickers	560,877	May 26	2836	649	75	1291
Brush-case	H. Besson	573,852	Dec. 29	3164	754	77	1947
Brush-cleaner	T. L. Harlow	571,438	Nov. 17	1792	427	77	1015
Brush. Collecting	E. B. Raymond	573,105	Dec. 15	1791	431	77	1659
Brush. Floor-polishing	W. C. and J. J. Koetzner	562,362	June 16	2283	555	75	1843
Brush for cleansing. Scraping	T. Finne	554,339	Feb. 11	969	224	74	699
Brush for washing bottles	J. Babis	564,497	July 21	2196	517	76	435
Brush. Fountain	J. S. Withers	565,950	Aug. 18	1843	448	76	999
Brush. Fountain bath	M. E. Collins	562,760	June 23	2962	717	75	1988
Brush. Fountain marking	C. Z. Whitaker	570,583	Nov. 3	278	69	77	690
Brush. Fountain tooth	F. C. Howe	565,273	Aug. 4	611	144	76	728
Brush-handle attachment	G. Davenport	555,854	Mar. 3	614	147	74	1242
Brush-head	D. G. Bonnalie	569,003	Oct. 6	501	113	77	95
Brush-holder	S. H. Short	568,413	Sept. 29	2942	707	76	1887
Brush-holder. Folding	M. J. De Lent	564,739	July 28	2625	625	76	532
Brush. Horse	R. P. Cafferty, Jr.	559,673	May 5	546	127	75	786
Brush. Liquid-blackening	L. M. Whisenant	572,462	Dec. 1	661	156	77	1404
Brush-machine	W. Morrison	570,604	Nov. 3	316	78	77	697
Brush-machine	J. F. Mumford	570,261	Oct. 27	2722	648	77	554
Brush-machine	H. M. Shady	562,930	June 30	3255	793	75	2069
Brush-machine	H. Wehner	557,923	Apr. 7	705	169	75	133
Brush or cleaner. Rotary	J. W. Starritt	572,459	Dec. 1	658	155	77	1404
Brush-rake	W. C. Anderson	559,882	May 12	981	218	75	881
Brush receptacle. Paint	P. A. Carlson	553,052	Jan. 14	1030	251	74	207
Brush. Reservoir blackening	W. Hayball	558,172	Apr. 14	1178	287	75	240
Brush. Rotary	W. S. Beard	557,944	Apr. 7	735	177	75	139
Brush. Rotary	F. G. Farnham	571,559	Nov. 17	2006	477	77	1053
Brush. Rotary scratch	D. W. Dolan	557,562	Apr. 7	49	14	75	11
Brush. Rotary tooth	G. C. Courtwright and J. W. Purdy	569,409	Oct. 13	1201	283	77	244
Brush. Rotating	G. H. Rendel	565,218	Aug. 4	497	118	76	709
Brush. Tooth	E. H. Hamilton	569,870	Oct. 20	2022	482	77	409
Brush. Tooth	L. W. Jones	561,995	June 16	1655	404	75	1728
Brush. Tooth	D. W. Tower	570,573	Nov. 3	261	65	77	686
Brush. Tooth or other	T. I. Wallas	560,663	May 26	2450	561	75	1216
Brushes. Manufacture of	J. Stander	558,855	Apr. 21	2342	570	75	473
Bubble pipe. Soap	R. S. Thain	555,411	Feb. 25	2556	674	74	1087
Bucket	W. Stern	560,659	May 26	2441	559	75	1214
Bucket. Bait	L. B. Trigg	574,049	Dec. 29	3540	845	77	2015
Bucket. Coal	C. Eibe	571,303	Nov. 10	1569	372	77	960
Bucket. Hoisting	C. H. Notter	553,256	Jan. 21	1394	340	74	290
Bucket. Lunch	N. B. Casaday and W. M. Arthur	557,767	Apr. 7	443	105	75	84
Bucket. Milk	A. Ferber	567,679	Sept. 15	1650	398	76	1616
Bucket or vessel. Cloth	R. A. Slack	552,973	Jan. 14	904	219	74	183
Buckets, tongs, &c. Discharging mechanism for	H. Sawyer	573,708	Dec. 22	2926	692	77	1886
Buckle	T. F. Cavanagh	553,703	Jan. 28	2173	514	74	449
Buckle	C. A. Conger	557,253	Mar. 31	3166	760	74	1791
Buckle	E. E. Ethridge	557,787	Apr. 7	478	114	75	91
Buckle	F. E. Fesler	556,743	Mar. 24	2260	528	74	1602
Buckle	J. Forsheim	562,953	June 30	3342	803	75	2082
Buckle	C. F. Fraccisco	561,308	June 2	431	107	75	1453
Buckle	N. H. George	555,000	Feb. 18	2122	504	74	933
Buckle	D. Goodnow	569,638	Oct. 20	1614	380	77	336
Buckle	E. Graves	556,413	Mar. 17	1698	396	74	1480
Buckle	C. R. Harris	560,498	May 19	2109	482	75	1139
Buckle	J. C. Rosenkranz	566,227	Aug. 18	2307	565	76	1083
Buckle	G. F. Stansbury	565,396	Aug. 4	806	191	76	766
Buckle	J. V. Washburne	564,399	July 21	2041	479	76	408
Buckle	J. V. Washburne	565,868	Aug. 11	1685	413	76	951
Buckle	I. D. Wright	567,061	Sept. 1	574	134	76	1390
Buckle and hook. Combined back-band	A. M. Ziegler	555,277	Feb. 25	2626	616	74	1043
Buckle and trace attachment. Harness	J. W. Cronan	559,027	Apr. 28	2652	646	75	550
Buckle. Belt	O. Lenzinger and A. A. Blom	559,900	May 12	1021	226	75	888
Buckle. Harness	A. Vester	556,292	Mar. 10	1477	344	74	1423
Buckle. Harness	S. P. Haney	556,538	Mar. 17	1935	451	74	1524
Buckle. Harness	J. R. Mole	569,584	Oct. 13	1510	356	77	301
Buckle. Lock	M. W. Lynch	573,093	Dec. 15	1771	426	77	1655
Buckle. Self-closing	E. F. and F. A. Smith	557,903	Apr. 7	664	159	75	125
Buckle. Suspender	C. R. Harris	562,531	June 23	2552	620	75	1910
Buffer-wheels. Manufacture of	S. H. Brooks	572,243	Dec. 1	260	62	77	1328
Buffing or polishing appliance	H. A. Webster	573,735	Dec. 22	2972	703	77	1895

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Buffing or polishing device.....	H. A. Webster.....	573,734	Dec. 22	2970	703	77	1895
Buffing-wheel.....	W. H. Divine.....	563,459	July 7	375	86, 87	76	72
Bug and flea trap.....	G. Ipson.....	554,490	Feb. 11	1231	288	74	749
Buggy-boot fastener.....	D. W. Kneisly.....	565,005	Aug. 4	75	18	76	631
Buggy curtain-support.....	S. E. Basden.....	565,321	Aug. 4	683	164	76	742
Buggy-jack.....	B. Porter.....	565,022	Aug. 4	119	29	76	640
Buggy-seat.....	J. P. Cooper.....	566,141	Aug. 18	2174	529	76	1061
Buggy. Side-bar.....	E. F. Hill.....	555,769	Mar. 3	470	112	74	1215
Buggy-top attachment.....	A. E. Stout.....	566,351	Aug. 25	2522	617	76	1145
Buggy-top raising and lowering device.....	J. E. Ritz.....	564,393	July 21	2032	477	76	406
Buggy-wrench.....	H. S. Smythe.....	567,695	Sept. 15	1675	403	76	1621
Building construction.....	T. Jones.....	563,278	July 7	74	18	76	16
Building construction.....	G. Knoche.....	560,137	May 12	1454	327	75	971
Building construction.....	H. A. Streeter.....	555,981	Mar. 10	863	204	74	1312
Building construction.....	R. Walker.....	565,560	Aug. 11	1167	280	76	852
Building plate or tile.....	K. Wahl and J. Rixy.....	552,939	Jan. 14	849	204	74	173
Building purposes. Bearing-rib for compression members for.....	C. Steiner.....	567,202	Sept. 8	818	194	76	1448
Building. Rat or vermin proof.....	J. T. Crawford.....	574,305	Dec. 29	4039	959	77	2104
Building structure.....	W. M. Ireland.....	556,676	Mar. 17	2139	498	74	1562
Buildings. Construction of.....	J. T. Wilson.....	563,529	July 7	497	116	76	95
Buildings. Construction of.....	J. T. Wilson.....	563,530	July 7	499	116	76	95
Buildings. Erecting.....	J. Wenmaekers.....	561,637	June 9	1029	247	75	1590
Buildings. Protective system for.....	C. Bergher.....	567,577	Sept. 15	1482	355	76	1543
Buildings with each other and with the foundations. Means for rigidly connecting parts of.....	C. Dalhunt.....	573,452	Dec. 22	2459	523	77	1798
Bullion. Softening base.....	G. A. Marsh.....	569,293	Oct. 13	995		77	205
Bullion. Softening base.....	G. A. Marsh. (Reissue).....	11,579	Dec. 8	1505		77	1587
Bumping-post.....	M. Haley.....	562,297	June 16	2166	527	75	1822
Bung.....	F. R. Butterfield.....	567,563	Sept. 8	1444	347	76	1560
Bung.....	C. J. Meyerholz.....	572,435	Dec. 1	620	147	77	1396
Bung.....	J. Parbel.....	571,842	Nov. 24	2507	594	77	1166
Bung.....	H. Rosenthal.....	573,624	Dec. 22	2771	657	77	1859
Bung.....	G. Zellstra.....	559,656	May 5	523	120	75	782
Bung and flushing-key for same. Faucet.....	D. Beebe.....	573,254	Dec. 15	2051	491	77	1706
Bung. Barrel.....	J. Heun.....	570,799	Nov. 3	690	158	77	766
Bung. Barrel.....	A. E. McKechnie.....	571,494	Nov. 17	1886	450	77	1031
Bung. Beer.....	N. Moyer.....	561,336	June 2	488	123	75	1464
Bung. Beer-barrel.....	J. J. and P. T. O'Leary.....	562,414	June 23	2358	576	75	1874
Bung. Faucet.....	D. Beebe. (Reissue).....	11,552	June 30	3857	924	75	2179
Bung. Faucet.....	D. Beebe.....	570,725	Nov. 3	561	130	77	742
Bung-hole protector and funnel combined.....	A. Krimmel.....	573,333	Dec. 15	2207	528	77	1733
Bung-making machine.....	E. E. Elder and H. S. Kelly.....	569,488	Oct. 13	1313	309	77	264
Bungs, &c. Machine for making.....	E. E. Elder.....	569,554	Oct. 13	1439	340	77	287
Bungs, &c. Machine for making.....	E. E. Elder and E. H. Taylor.....	569,555	Oct. 13	1445	341	77	289
Bunsen burner.....	W. H. Chaddock.....	570,084	Oct. 27	2404	569	77	494
Bunsen burner.....	E. Moreau and S. Mason.....	569,139	Oct. 6	724	170	77	138
Buoy. Bell.....	J. M. Babbitt, P. F. Wood, and J. A. Doud.....	555,919	Mar. 10	744	179	74	1289
Buoy. Current-actuated bell.....	A. L. Woodworth.....	556,234	Mar. 10	1338	314	74	1396
Buoy or life-preserver.....	C. H. McLellan.....	561,807	June 9	1335	319	75	1647
Bureau and desk.....	J. H. Harrell.....	569,825	Oct. 20	1951	464	77	395
Burglar-alarm.....	F. Hessemer and C. S. Smith.....	570,755	Nov. 3	621	143	77	752
Burglar-alarm.....	A. M. Hungerford and W. W. Bott.....	555,810	Mar. 3	533	129	74	1227
Burglar-alarm.....	C. L. Knapp.....	559,981	May 12	1161	259	75	917
Burglar-alarm.....	W. J. McCollom.....	563,202	June 30	3786	907	75	2166
Burglar-alarm.....	T. P. Murray.....	561,019	May 26	3061	705	75	1333
Burglar-alarm.....	G. H. Reichold.....	562,197	June 16	2007	485	75	1792
Burglar-alarm.....	W. H. Reiff.....	563,617	July 7	643	150	76	121
Burglar-alarm.....	F. Steinkoenig.....	570,616	Nov. 3	339	84	77	701
Burglar-alarm.....	T. J. Sutton.....	555,982	Mar. 10	864	204	74	1312
Burglar-alarm.....	T. J. Sutton.....	559,631	May 5	480	111	75	774
Burglar-alarm.....	W. H. Ward.....	567,845	Sept. 15	1939	464	76	1671
Burglar-alarm.....	O. B. Weaver.....	567,872	Sept. 15	1977	474	76	1679
Burglar-alarm and call-bell. Combined.....	I. L. Hauser.....	568,552	Sept. 29	3170	763	76	1927
Burglar-alarm. Capsizing.....	O. T. Welch.....	558,886	Apr. 21	2404	586	75	486
Burglar-alarm circuit-closer.....	C. H. Dowden.....	569,861	Oct. 20	2010	479	77	406
Burglar-alarm. Detonating.....	W. C. Longstreth.....	554,887	Feb. 18	1921	452	74	897
Burglar-alarm. Electric.....	C. Coleman.....	570,906	Nov. 10	886	206	77	832
Burglar-alarm. Electric.....	H. Rohrdantz.....	562,325	June 16	2214	539	75	1831
Burglar-alarm. Electrical.....	C. Coleman.....	554,505	Feb. 11	1250	293	74	752
Burglar-alarms. Contact device for electric.....	P. Unger.....	567,176	Sept. 8	785	185	76	1442
Burial-case.....	G. W. Rowell.....	568,001	Sept. 22	2214	534	76	1735
Burial-casket.....	J. B. Anderson.....	563,118	June 30	3638	871	75	2139
Burial-casket.....	W. H. Blackford and W. Holdsworth.....	560,253	May 19	1682	883	75	1063
Burial-casket.....	W. C. Knapp.....	569,339	Oct. 13	1079	256	77	222
Burial-casket.....	W. C. Lautner.....	559,457	May 5	192	42	75	719
Burial-casket.....	J. D. Ripson.....	561,241	June 2	282	71	75	1422
Burial-casket. Adjustable.....	C. H. Ramsey.....	565,566	Aug. 11	1135	274	76	845
Burial-casket box.....	J. J. Stephens.....	554,741	Feb. 18	1657	391	74	846
Burial-casket face-plate.....	N. Kollé.....	565,282	Aug. 4	624	148	76	731

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Burial-casket pedestal	W. H. Blackford and W. Holdsworth.	563,907	July 14	1179	277	76	236
Buried alive. Apparatus for saving people	M. Karnicki	572,119	Dec. 1	44	11	77	1287
Burner:							
See Atmospheric burner. Incandescent-light burn-							
er.							
Bunsen burner. Lamp-burner.							
Fuel-burner. Liquid-fuel burner.							
Gas-burner. Locomotive oil-burner.							
Gas-lighting burner. Oil-burner.							
Gas or oil burner. Petroleum-burner.							
Heating-burner. Refuse-burner.							
Hydrocarbon-burn- Self-igniting burner.							
er. Stove-burner.							
Incandescent burner. Vapor-burner.							
Burner	B. S. Dunn	555,308	Feb. 25	2687	628	74	1055
Burner attachment	W. T. Ross	568,703	Sept. 29	3487	833	76	1988
Burner for burning gaseous fuel	H. Adler	560,458	May 19	2050	467	75	1127
Burner. No-chimney	F. Rhind	559,947	May 12	1098	244	75	901
Burners. Automatic extinguisher for kerosene-	F. P. Boland	554,978	Feb. 18	2074	494	74	925
burning coal-dust. Apparatus for	G. Hilliger	558,875	Apr. 21	2384	581	75	482
Burnishing-machine	M. E. Clark	570,866	Nov. 3	810	185 186 187	77	789
Bush and bung for barrels. Metallic	J. Hinterberger	567,313	Sept. 8	1030	247	76	1485
Bushing. Antifriction	B. F. Sparr	567,728	Sept. 15	1734	415	76	1632
Bushing. Tap	J. Mohr	573,990	Dec. 29	3440	823	77	1995
Bust and shoulder supporter	S. Beckett	557,945	Apr. 7	736	177	75	139
Bustle. Shoulder	T. P. Taylor	553,546	Jan. 28	1905	451	74	401
Butchering appliance	T. Kennedy and T. Slattery	570,025	Oct. 27	2292	544	77	472
Butcher's tool-rack	J. H. Langton	572,764	Dec. 8	1199	289	77	1325
Butter cutter and lifter	M. E. and F. M. Greenough	564,375	July 21	1998	469	76	399
Butter-jar	A. M. Wiatt	574,126	Dec. 29	3681	577	77	2040
Butter. Manufacture of	G. M. Andersson	555,892	Mar. 3	695	167	74	1259
Butter. Manufacturing	W. Cole	564,325	July 21	1912	452	76	383
Butter-manufacturing apparatus	J. H. H. Duncan	556,339	Mar. 17	1560	365	74	1453
Butter-mold	W. Fielding	560,202	May 19	1578	357	75	1045
Butter molding and cutting machine	R. A. Simpson	561,351	June 2	513	129	75	1468
Butter or cheese cutter	L. W. Merriam	559,494	May 5	249	56	75	730
Butter pressing and molding machine	C. A. Gloekler	557,505	Mar. 31	3616	866	74	1877
Butter-purifying compound	J. W. Terman	559,634	May 5	487		75	775
Butter-tub-sanding machine	C. D. Ames	573,846	Dec. 29	3154	752	77	1945
Butter-worker	W. F. Waters	563,698	July 7	778	184	76	146
Butter-working apparatus	J. H. Dwyer	557,781	Apr. 7	462	109	75	87
Butterfly. Artificial	M. S. Johnson	563,489	July 7	433	100	76	83
Butting-board-adjusting device	J. W. Pridmore	554,726	Feb. 18	1630	385	74	842
Butting-board-adjusting device	T. Smith	568,149	Sept. 22	2500	601	76	1788
Button	J. W. Beaumont	555,995	Mar. 10	889	212	74	1317
Button	J. J. Burroughs	564,324	July 21	1912	452	76	383
Button	W. B. H. Dowse	563,460	July 7	376	87	76	73
Button	J. N. Gardner	570,872	Nov. 3	829	192	77	793
Button	E. Kempshall	565,276	Aug. 4	616	146	76	729
Button	J. E. Kenna	569,581	Oct. 13	1505	355	77	300
Button	H. Kerngood	564,890	July 28	2877	689	76	577
Button	R. J. Kyle	567,834	Sept. 15	1919	460	76	1667
Button	R. J. Kyle	568,357	Sept. 29	2851	685	76	1870
Button	C. W. Lawyer	568,030	Sept. 22	2273	550	76	1746
Button	W. O'Neill	571,387	Nov. 17	1707	406	77	999
Button	C. M. Platt	563,546	Sept. 29	3195	770	76	1932
Button	I. G. Platt	559,906	May 12	1034	229	75	890
Button	D. B. Seward	554,544	Feb. 11	1312	308	74	765
Button	F. R. White and C. M. Platt	567,529	Sept. 8	1389	334	76	1550
Button	F. R. White and I. G. Platt	559,919	May 12	1048	233	75	893
Button	J. F. Wood	571,425	Nov. 17	1764	421	77	1009
Button and button-fastener	O. W. Ketchum	555,868	Mar. 3	642	154	74	1248
Button and drawers-support. Combined	E. O. Presby	561,435	June 2	671	164	75	1497
Button and fastener therefor	J. Bernstein	560,889	May 26	2861	655	75	1295
Button and stud. Collar	S. J. Stone	553,944	Feb. 4	261	57	74	553
Button-attaching machine	W. E. Elliott	552,869	Jan. 7	690	167 168 169 702	74	130
Button-attaching machine	J. Mathison	561,015	May 26	3052	703 704	75	1332
Button-attaching machine	F. A. Ryno	560,866	May 26	2816	645 646	75	1287
Button. Automatically-attachable	H. A. Sévigné	574,008	Dec. 29	3469	829	77	2001
Button-backs. Machine for making	F. J. Ludington	564,828	July 28	2774	659 660	76	558
Button. Badge	J. H. Patterson	566,617	Aug. 25	2995	731	76	1234
Button-cleaner and garment-protector	C. L. Kramer	556,935	Mar. 24	2587	609	74	1662
Button. Collar	B. A. Brown	570,371	Oct. 27	2954	701	77	596
Button. Collar	E. W. Creecy	563,452	July 7	366	84	76	71
Button. Collar	S. J. Stone and F. E. Farnham	556,219	Mar. 10	1314	308	74	1392
Button. Collar	J. A. Trendel	552,626	Jan. 7	209	57	74	41
Button. Collar	F. A. Wattenberg	553,744	Jan. 23	2249	533	74	464
Button. Collar, cuff, and stud	O. W. Young	562,060	June 16	1773	429	75	1750
Button. Cuff	A. Brunka	558,349	Apr. 14	1470	361	75	295
Button. Cuff	G. P. A. Gunther	559,495	Oct. 13	1331	313	77	267
Button. Cuff	C. Holman	563,768	July 14	903	216	76	185
Button. Cuff	T. A. Reynolds	560,863	May 26	2807	644	75	1286
Button. Detachable	I. W. Heyinger	568,111	Sept. 22	2432	584	76	1774
Button. Detachable cuff	W. H. Glines	559,077	Apr. 28	2738	666	75	565
Button-drilling machine	M. Chernic	556,734	Mar. 24	2241	524	74	1598
Button-fastener	E. M. Hart	567,269	Sept. 8	947	225	76	1470

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Button-fastener	H. Kerngood	564,888	July 28	2876	689	76	577
Button-fastener	H. F. Welke	572,846	Dec. 8	1332	320	77	1552
Button-feed mechanism	W. E. Bennett	553,803	Jan. 28	2334	555	74	480
Button for gloves. Fastening	J. Steinberger	573,500	Dec. 22	2621	622	77	1827
Buttonhole-cutter	A. Eisenbart	561,775	June 9	1289	310	75	1639
Buttonhole-cutter and ripper	A. A. Hudgins	560,616	May 19	2306	528	75	1174
Button-hopper	D. A. Carpenter	562,572	June 23	2645	640 641	75	1928
Button. Insignia and campaign	A. Phelps	562,656	June 23	2777	674	75	1952
Button. Link cuff	J. W. Fahr	554,483	Feb. 11	1220	286	74	747
Button machine. Pearl	R. H. Lindsay	553,500	Jan. 21	1815	431	74	367
Button machinery. Pearl	J. Neumeister	558,458	Apr. 14	1675	403	75	334
Button-making machine	G. Carlyle	561,564	June 9	901	217	75	1566
Button-making machine	G. Carlyle and W. Nageborn	554,052	Feb. 4	453	100 101 102	74	587
Button-making machine	F. J. Kaspar	567,102	Sept. 1	656	153	76	1406
Button-making machine	F. Mattusch	553,492	Jan. 21	1803	429	74	365
Button or clasp	J. C. McRae	573,906	Dec. 29	3265	779	77	1965
Button or stud card	C. P. Benedict	556,878	Mar. 24	2499	589	74	1647
Button or stud. Separable	G. W. Lee and C. Bramberg	556,851	Mar. 24	2441	573	74	1636
Button-press. Rotary	S. B. Lane	574,154	Dec. 29	3726	888 889	77	2047
Button. Self-fastening	C. F. Reichelt	553,938	Feb. 4	252	55	74	552
Button. Separable	P. H. Lettré	558,398	Apr. 14	1559	380	75	311
Button. Separable	E. Pringle	573,532	Dec. 22	2587	614	77	1822
Button. Separable	E. Pringle	573,533	Dec. 22	2589	614	77	1822
Button. Separable	E. Pringle	574,265	Dec. 29	3975	944	77	2092
Button. Separable	E. Pringle	574,266	Dec. 29	3977	945	77	2092
Button. Separable	E. Pringle	574,267	Dec. 29	3979	945	77	2092
Button. Separable	F. B. Wadell	570,576	Nov. 3	266	66	77	688
Button-setting implement. Hand	F. S. McKenney and F. R. Welton	571,954	Nov. 24	2715	642	77	1207
Button-setting instrument. Hand	F. S. McKenney	564,337	July 21	1935	457	76	388
Button-setting machine	A. W. Ham	569,579	Oct. 13	1501	354 355	77	299
Button-setting machine	W. C. Holder and C. E. Reed	557,810	Apr. 7	515	124	75	98
Button-setting machine	E. H. Taylor	558,234	Apr. 14	1284	313 314 315	75	260
Button-setting machine	E. D. Welton	571,207	Nov. 10	1402	328	77	927
Button-shank and button	E. Teltschik	571,986	Nov. 24	2767	653	77	1216
Button-shaping machine	J. Henwood	556,748	Mar. 24	2267	531 532	74	1603
Button with shifting links. Link	A. Bippart	564,963	Aug. 4	5	2	76	617
Buttons, &c. Fastening for	F. S. McKenney	565,388	Aug. 4	792	189	76	764
Buttons. Manufacture of marble, onyx, or similar	D. L. Crosscup	564,365	July 21	1985	466	76	396
Buttons. Machine for forming pearl	J. H. Wesson	560,250	May 19	1674	382	75	1062
Buttons to cloth. Machine for attaching	C. M. Platt	567,505	Sept. 8	1357	327	76	1544
Buttons to garments. Machine for attaching	D. A. Carpenter	556,002	Mar. 10	899	214 215	74	1318
Buttons to garments. Machine for attaching	D. A. Carpenter	562,571	June 23	2642	640	75	1927
Buttoner. Cuff	L. F. Earl	560,199	May 19	1573	356	75	1044
Buttoner. Hand	F. S. McKenney	563,791	July 14	941	224 225	76	193
Cabinet	A. D. Acers	563,215	June 30	3802	911	75	2169
Cabinet	J. E. Caplinger	570,199	Oct. 27	2605	619	77	532
Cabinet	F. Norkus	566,010	Aug. 18	1958	474 475	76	1023
Cabinet. Automatic lock	D. Van Nostrand	566,357	Aug. 25	2543	620	76	1148
Cabinet-bath	E. W. Burns	566,135	Aug. 18	2163	527	76	1059
Cabinet. Glove	J. Cocks	557,651	Apr. 7	237	58	75	44
Cabinet. Glove	E. A. Murray	565,779	Aug. 11	1522	370	76	919
Cabinet or safe for pies, &c.	C. F. Shipman	568,706	Sept. 29	3490	834 835	76	1989
Cabinet. Physician's	B. D. Miner and H. H. Elbreg	553,473	Jan. 21	1766	421	74	359
Cabinet. Revolving	J. D. Smith	568,631	Sept. 29	3355	804	76	1962
Cabinet. Rotary	J. E. Stephens	553,081	Jan. 14	1081	264	74	217
Cabinet. Sportsman's	G. Porteous	553,072	Jan. 14	1069	260	74	214
Cabinet-table	G. W. Longstaff	553,860	Feb. 4	85	18	74	521
Cabinet. Thread	W. K. Shelton and P. H. Stewart	554,961	Feb. 18	2044	484	74	820
Cable-carrier	E. L. Heidenreich and G. Monrath	571,440	Nov. 17	1795	428	77	1015
Cable-clip	J. W. Cover and M. O. Tibbits	554,335	Feb. 11	962	222 223	74	698
Cable-clip	R. H. Lewis	564,433	July 21	2103	491	76	418
Cable-clip	P. Wunderle	560,828	May 26	2729	626	75	1271
Cable-grip	J. Pohlig	565,027	Aug. 4	118	28	76	640
Cable-gripper	W. H. Carr	553,898	Feb. 4	169	35, 36	74	536
Cable-gripper	G. S. Evans	553,233	Jan. 21	1353	329	74	282
Cable-hanger	A. S. Diehl	563,263	July 7	52	13	76	12
Cable-tension device	C. Fitzgerald	552,900	Jan. 14	775	188	74	158
Cable-terminal attachment	A. T. Welles	563,342	July 7	193	43	76	39
Cable terminal-box	W. H. Johnston	571,594	Nov. 17	2060	493	77	1062
Cableway for conveying and dumping rock, &c.	C. H. Locher	572,491	Dec. 1	699	167 168	77	1412
Cableway for dumping purposes	C. H. Locher	570,429	Oct. 27	3065	726 727	77	617
Caissons. Air-lock for	W. C. Barr	568,655	Sept. 29	3402	814	76	1971
Caissons, &c. Air-lock for	R. S. Gillespie	570,793	Nov. 3	679	156	77	764
Caissons, &c. Air-lock for	R. S. Gillespie	570,794	Nov. 3	681	156	77	764
Caisson and constructing same	F. Baldwin	559,116	Apr. 28	2813	681	75	582
Cake-beater	W. Lawton	565,007	Aug. 4	77	19	76	632
Cake-making machine. Triplet	P. D. Harton	571,921	Nov. 24	2659	630	77	1194
Cake-pan	M. L. Perrottet	559,788	May 5	755	181	75	825
Cake-pan	T. A. Wilson	572,509	Dec. 1	733	175	77	1417

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cake-stacking machine	D. M. Hartman and J. G. Donnell ..	571,663	Nov. 17	2172	{ 522 523 }	77	1084
Cake-turner	W. H. Metzger	562,551	June 23	2583	627	75	1916
Cake-turner. Automatic	L. B. Cobb	537,092	Mar. 24	2861	684	74	1717
Cakes, &c. Apparatus for shaping and ornamenting	H. F. W. Hueg	560,719	May 26	2542	{ 584 585 }	75	1234
Calcinimine-size	F. Briesemeister	563,999	July 14	1336	.....	76	264
Calcinmer and smelter. Combined	C. J. Best and A. E. Meanor	569,537	Oct. 13	1405	332	77	281
Calcinmer-furnace	A. Dauber	573,140	Dec. 15	1858	447	77	1671
Calcinmer-furnace	A. H. Wethey	559,647	May 5	508	117	75	779
Calcium carbid. Forming	W. R. King and F. Wyatt	562,402	June 23	2342	571	75	1871
Calcium carbid. Manufacture of	W. C. Clarke	552,890	Jan. 14	743	181	74	153
Calcium carbid. Composition of matter for manu- facturing	H. Eldridge, D. J. Clark, and M. W. Wambaugh	571,084	Nov. 10	1194	.....	77	889
Calcium compounds. Producing	T. L. Willson	563,527	July 7	495	.....	76	94
Calculating device	S. N. Dodd	573,506	Dec. 22	2547	{ 603 604 616 617 }	77	1814
Calculating-machine	L. Bollée	556,720	Mar. 17	2206	{ 516 517 }	74	1575
Calculating-machine	H. Esser	561,099	June 2	38	10, 11	75	1375
Calculating-machine	G. W. MacKenzie, T. C. Sloane, and W. P. Hanna	573,228	Dec. 15	2011	{ 482 483 597 598 599 }	77	1699
Calculating-machine	O. Steiger	558,913	Apr. 21	2449	{ 597 598 599 }	75	494
Calculating machine. Tax	J. L. Knight	571,070	Nov. 10	1160	271	77	883
Calculator	W. A. Copeland, C. Roberts, and T. J. McCrary	569,544	Oct. 13	1415	334	77	284
Calculator. Yardstick	E. Praeger	536,867	Sept. 1	220	51	76	1324
Calendar	F. B. Dickason	567,965	Sept. 22	2138	{ 515 516 }	76	1722
Calendar	D. S. Seibert	554,837	Feb. 18	1825	427	74	880
Calendar	A. S. Walmer	553,323	Jan. 21	1522	364	74	312
Calendar	F. H. Winiker	557,743	Apr. 7	399	94	75	75
Calendar. Offertory	S. Moore	553,996	Feb. 4	357	78	74	570
Calendar for pencils, &c.	G. W. Johnston	564,885	July 28	2871	628	76	576
Calendar for watches or clocks. Perpetual	J. D. Fazel	563,268	July 7	59	15	76	13
Calendar-pad. Memorandum	R. Spurgin	559,315	Apr. 28	3207	775	75	653
Calendar. Pencil	G. W. Johnson	561,666	June 9	1071	259	75	1597
Calendar. Sheet	W. T. Wilson	571,031	Nov. 10	1097	{ 256 257 }	77	871
Calendering paper, &c. Machine for	H. Linton	555,385	Feb. 25	2813	661	74	1079
Caliper instrument	G. W. Mings	554,524	Feb. 11	1282	{ 300 301 }	74	758
Calipers	J. N. Peavey, Jr.	571,788	Nov. 24	2415	575	77	1150
Calipers	A. F. Radant	572,827	Dec. 8	1305	313	77	1546
Calipers	L. C. Reisman	553,595	Jan. 28	1992	472	74	416
Calipers attachment	D. S. Byer	558,773	Apr. 21	2210	532	75	448
Calipers. Micrometer	A. B. Brown	552,659	Jan. 7	277	75	74	54
Calipers. Micrometer	S. H. Markham	561,802	June 9	1326	318	75	1645
Call and alarm apparatus. Electric	J. P. Hartfuss and E. Herz	555,160	Feb. 25	2416	573	74	1004
Call. Electric guest	S. K. Gimbel	558,555	Apr. 21	1830	445	75	380
Call system for buildings. Messenger	H. Denver	552,897	Jan. 14	770	187	74	158
Calling apparatus. Individual	W. W. Alexander	563,352	July 7	205	46	76	42
Calorimeter	H. Junkers	555,956	Mar. 10	812	194	74	1301
Cam	S. Schneider	555,534	Mar. 3	86	19	74	1146
Cam. Sectional	G. W. Ravenscroft and N. L. Mag- nusson	564,841	July 28	2794	665	76	561
Cams. Machine for manufacturing multiple-throw	J. Price	564,800	July 28	2730	{ 649 650 }	76	550
Camera	C. E. McMurry	553,494	Jan. 21	1806	429	74	366
Camera	P. K. Stern	571,606	Nov. 24	2439	582	77	1154
Camera attachment. Curtain-slide	W. Trueman	569,895	Oct. 20	2064	491	77	416
Camera focusing attachment	M. C. Booth	559,885	May 12	986	219	75	882
Camera. Kinetographic	C. F. Jenkins	560,800	May 26	2682	616	75	1261
Camera. Magazine	J. P. Andersen	565,712	Aug. 11	1394	340	76	896
Camera. Magazine	E. G. Cone and D. R. Close	558,356	Apr. 14	1480	363	75	297
Camera. Magazine	L. Dustin	571,995	Nov. 24	2783	{ 656 657 }	77	1218
Camera. Magazine	H. Hill and A. L. Adams	555,865	Mar. 3	635	{ 152 153 }	74	1247
Camera. Magazine	F. Stubbs	573,309	Dec. 15	2176	519	77	1727
Camera. Magazine	C. Umbach	563,697	July 7	774	{ 182 183 184 }	76	145
Camera. Magazine	F. Whitney	552,654	Jan. 7	269	73, 74	74	53
Camera. Magazine	H. E. Willis	568,422	Sept. 29	2959	710	76	1889
Camera. Magazine	A. E. Younger	552,570	Jan. 7	113	31	74	23
Camera. Panoramic	P. N. Angsten and C. H. Gesbeck	567,559	Sept. 8	1437	345	76	1559
Camera. Panoramic	H. G. Wood	559,246	Apr. 28	3103	748	75	634
Camera. Photographic	H. B. Carlton	564,472	July 21	2158	506	76	428
Camera. Photographic	W. F. Carlton and H. W. Locke	558,039	Apr. 14	955	234	75	197
Camera. Photographic	J. Cole	561,966	June 16	1610	391	75	1719
Camera. Photographic	J. M. Elliot	569,328	Oct. 13	1060	{ 251 252 }	77	219
Camera. Photographic	E. Gleason	565,204	Aug. 4	471	112	76	704
Camera. Photographic	A. Gaul y S. Juan	557,701	Apr. 7	503	121	75	95
Camera. Photographic	G. D. Milburn	558,089	Apr. 14	1042	255	75	213
Camera. Photographic	G. P. Parradee	564,838	July 28	2789	{ 663 664 }	76	560
Camera. Photographic	F. H. Sanderson	570,774	Nov. 3	652	149	77	758
Camera. Photographic	C. B. Withington	564,494	July 21	2191	{ 513 514 }	76	435
Camera. Roll-holding	N. Crane	567,297	Sept. 8	998	237	76	1479

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Camera. Roll-holding	W. V. Esmond	552,633	Jan. 7	221	61	74	44
Camera. Roll-holding	P. K. Stern	566,100	Aug. 18	2103	513 514	76	1049
Camera. Series photographic	A. N. Petit	560,424	May 19	1986	454	75	1116
Camera-stand	L. Noble	560,525	May 19	2146	491	75	1145
Camera-tripod head	J. H. Fay	566,451	Aug. 25	2754	668	76	1187
Camper's kit	W. E. Baxter	561,756	June 9	1251	298	75	1632
Can:							
See Ash-can. Metal can.							
Ash and garbage can. Milk-can.							
Cotton-can. Oil-can.							
Fruit can. Oil or gasoline can.							
Ice-freezing can. Sheet-metal can.							
Jacketed can. Sprinkling-can.							
Key-opening can. Varnish-can.							
Can	C. T. Draper	564,060	July 14	1457	341	76	926
Can	F. Westerbeck	564,492	July 21	2189	513	76	434
Can-body forming, soldering, and heading machine	R. D. Hume. (Reissue)	11,533	Apr. 21	2467	600 601	75	496
Can-capping machine	J. Baker	564,042	July 14	1412	329	76	277
Can-capping machine	J. R. Rowlands	557,610	Apr. 7	139	36 37 38	75	27
Can-case filling machine	E. W. Cornell	560,058	May 12	1307	293 294	75	942
Can-cleaner	H. McCornack	563,505	July 7	461	108 109	76	88
Can-cleaner	J. C. Rust	565,234	Aug. 4	561	131	76	718
Can closure. Oil	B. A. Beal	559,351	May 5	4	1	75	681
Can-cooling machinery	H. Schaake	564,163	July 14	1647	384 385	76	322
Can-cover	G. E. Burnham	572,471	Dec. 1	670	159	77	1406
Can-cover	A. S. Lambert and E. Hoffman	568,485	Sept. 29	3058	736	76	1908
Can cover. Milk	T. W. Forster	563,659	July 7	700	166	76	132
Can-drying apparatus	H. Schaake	557,029	Mar. 24	2764	656	74	1696
Can-filler	H. Nutter	564,637	July 28	2455	577	76	500
Can-filling machine	W. S. Plummer	569,030	Oct. 6	539	124 125	77	102
Can-heading machine	E. Ellefsen	560,024	May 12	1241	273 279	75	930
Can-heading machine	R. D. Hume	572,360	Dec. 1	482	113 114	77	1370
Can-heads. Die for making	A. F. Remy	563,688	July 7	762	180	76	143
Can-key-engaging device	J. Zimmerman	568,222	Sept. 22	2621	680	76	1811
Can-labeling machine	R. Parkinson, W. L. Childers, R. Hanson, and J. Wakefield.	556,022	Mar. 10	940	224	74	1324
Can-labeling machine	W. E. Pettee	560,324	May 19	1804	411	75	1084
Can labeling-machine attachment	E. W. Cornell and F. H. Knapp	561,656	June 9	1056	255	75	1595
Can-lacquering machine	A. J. Burns	570,538	Nov. 3	185	49	77	672
Can-making machines. Attachment for	A. Johnson	554,027	Feb. 4	413	91	74	581
Can-making tool	R. T. Smith	559,955	May 12	1110	248	75	903
Can-opener	J. P. Anderson	558,546	Apr. 21	1820	443	75	378
Can-opener	H. Baldridge	566,265	Aug. 18	2361	579	76	1099
Can-opener	C. E. Baldwin	556,319	Mar. 10	1520	354	74	1431
Can-opener	F. W. Brown	561,862	June 9	1435	346	75	1666
Can-opener	W. G. Browne	561,482	June 2	744	183	75	1511
Can-opener	O. A. Burnes	569,609	Oct. 20	1554	365	77	324
Can-opener	W. Carmichael	562,885	June 30	3210	776	75	2052
Can-opener	W. G. Cogswell	553,105	Jan. 14	1135	276	74	227
Can-opener	F. E. Garner	555,315	Feb. 25	2700	652	74	1057
Can-opener	D. Hall	562,822	June 30	3090	749	75	2029
Can-opener	J. L. Haynes	571,664	Nov. 17	2177	524	77	1065
Can-opener	C. S. Hopper	573,465	Dec. 22	2481	588	77	1802
Can-opener	J. M. Keen	565,462	Aug. 11	922	219	76	807
Can-opener	W. J. Kinnear	571,835	Nov. 24	2495	591	77	1164
Can-opener	J. G. Larrabee	560,905	May 26	2883	661	75	1300
Can-opener	L. W. Merriam	563,936	July 14	1231	287	76	244
Can-opener	L. W. Merriam	563,937	July 14	1232	287	76	244
Can-opener	S. A. Nichols	572,560	Dec. 8	821	197	77	1450
Can-opener	W. L. Palmer	569,932	Oct. 20	2124	505	77	428
Can-opener	E. N. Pike	567,722	Sept. 15	1720	413	76	1629
Can-opener	J. K. Quick	565,564	Aug. 11	1132	273	76	845
Can-opener	A. C. Scarr	565,094	Aug. 4	249	60	76	662
Can-opener	W. A. Schorr and W. R. Collins	573,359	Dec. 15	2258	539	77	1743
Can-opener	F. Sharp	557,158	Mar. 31	2979	711	74	1762
Can-opener	F. C. Smalstig and G. Mayer	565,367	Aug. 4	757	180	76	757
Can-opener	O. C. Thompson	556,223	Mar. 10	1319	309	74	1392
Can-opener	W. Weidner	564,489	July 21	2186	512	76	434
Can-opener	C. V. Zinn	556,395	Mar. 17	1662	388	74	1473
Can-opener. Combination	J. E. Munro	573,991	Dec. 29	3441	823	77	1995
Can-opener, screw-driver, tack-puller, and hammer. Combined	J. P. Daly	574,197	Dec. 29	3845	917	77	2068
Can-opening device	O. S. Fellows	555,941	Mar. 10	788	189	74	1297
Can-opening device	G. J. Record	554,793	Feb. 18	1747	410	74	864
Can-opening device	G. J. Record	555,334	Feb. 25	2728	640	74	1063
Can-spout. Detachable	C. H. Bagley	571,852	Nov. 24	2528	599	77	1170
Can-spouts. Automatic closing device for	J. H. Burlich	564,242	July 21	1771	414	76	360
Can supporting and tilting device	H. C. Mahon	568,781	Oct. 6	122	28	77	25
Can-top. Self-locking	T. H. Coakley	569,688	Oct. 6	640	146	77	123
Can topping and wiping machine	E. C. Haines	568,676	Sept. 29	3443	824 825	76	1979
Cau-wiping machine	A. Cerruti	556,879	Mar. 24	2500	589	74	1647
Cans. Hand-protector for	W. Millen	566,085	Aug. 18	2072	505	76	1043
Cans. Key for opening sealed	O. S. Fellows	557,367	Mar. 31	3369	809	74	1831

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cans. Key for opening sheet-metal.	O. S. Fellows	555,940	Mar. 10	787	189	74	1296
Cans. Key for opening sheet-metal.	O. S. Fellows	557,368	Mar. 31	3370	809	74	1831
Cans. Key for opening sheet-metal.	O. S. Fellows	557,369	Mar. 31	3371	810	74	1831
Canning and cooking machine. Steam	J. F. Willson	560,336	May 19	1828	416	75	1087
Canning-basket	L. M. Shepherd	568,805	Oct. 6	157	37	77	32
Canal-lifts. Water-tight joint for.	H. Lubowski	561,902	June 9	1500	{ 362 363 }	75	1678
Canal-locks, &c. Lock-gate for.	C. N. Dutton	557,565	Apr. 7	64	17	75	13
Canceled and stamping device.	F. T. Bailey	555,357	Feb. 25	2768	{ 648 649 }	74	1070
Candle-holder.	J. Frenzel	568,196	Sept. 22	2575	619	76	1802
Candle-holder.	E. G., and S. Gilbert	558,800	Apr. 21	2260	546	75	457
Candle-holder.	A. W. Hoffmann	574,356	Dec. 29	4127	980	77	2121
Candle-holder.	L. G. Kregel	568,314	Sept. 22	2772	667	76	1840
Candlestick.	G. Castleden	571,338	Nov. 17	1630	387	77	985
Candlestick.	J. W. Wild	571,962	Nov. 24	2727	644	77	1209
Candlestick. Miner's.	S. Nash	561,428	June 2	655	160	75	1494
Candlesticks. Adjustable candle-holder attachment for	L. N. Thelen	559,875	May 12	968	215	75	879
Candy. Machine for cutting stick-	T. Hough	567,392	Sept. 8	1178	282	76	1511
Cane and music-stand. Combined	J. Mueller	553,867	Feb. 4	94	20	74	523
Cane. Billy.	L. Goldsmith	566,306	Aug. 25	2438	597	76	1129
Cane-cutter	E. W. Ross	558,001	Apr. 7	867	{ 219 220 }	75	163
Cane-handling apparatus.	A. A. Lorio	571,233	Nov. 10	1451	{ 340 341 }	77	936
Cane-juice. Apparatus for fumigating	J. A. Fay	564,063	July 14	1460	342	76	286
Cane-lift tripping attachment.	A. A. Morrow	555,462	Feb. 25	2968	707	74	1107
Cane-mill.	C. A. Calvert	553,607	Jan. 28	2014	477	74	420
Cane-mill.	D. G. Coppin	558,638	Apr. 21	1974	479	75	405
Cane-seat.	G. A. Lewis	558,187	Apr. 14	1201	293	75	245
Cane-sling. Sugar.	J. Mallon	571,675	Nov. 17	2192	528	77	1088
Cane strip and apparatus for preparing it. Reinforced	H. B. Morris	558,827	Apr. 21	2301	559	75	465
Cane to carriers. Apparatus for supplying sugar.	G. Lorio	567,906	Sept. 15	2022	485	76	1688
Cane unloader. Sugar.	F. L. Bouillotte	556,456	Mar. 17	1782	413	74	1496
Cane. Vehicle for hauling sugar.	A. A. Lorio	571,309	Nov. 10	1580	{ 375 376 703 704 705 706 }	77	962
Cane-weaving loom	H. B. Morris. (Reissue)	11,573	Nov. 24	3000	{ 704 705 706 }	77	1257
Cane-weaving machine.	E. H. Powers	568,040	Sept. 22	2287	{ 554 555 }	76	1748
Canister.	H. Robinson	569,061	Oct. 6	593	136	77	114
Cannon. Yacht.	W. W. Scott	570,507	Nov. 3	127	31, 32	77	662
Canopies. Folding frame for supporting	T. R. and E. L. Heintz	563,375	July 7	242	54, 55	76	49
Canopy body rest and support.	E. V. Wagner	560,245	May 19	1662	378	75	1060
Canopy or netting support.	J. E. Leary	569,025	Oct. 6	533	123	77	101
Cant-hook. Lumberman's.	J. M. Ellis	573,844	Dec. 22	3150	751	77	1929
Cap.	G. Hirschberg	554,600	Feb. 11	1413	331	74	784
Cap.	S. S. Hirschberg	563,175	June 30	3730	893	75	2155
Cap.	S. Kirshner	566,326	Aug. 25	2478	607	76	1137
Cap.	J. Kornfeld	563,280	July 7	79	20	76	17
Cap.	I. Pachner	563,053	June 30	3504	841	75	2113
Cap.	F. W. Samuels	553,043	Jan. 14	1010	247	74	203
Cap and stopper. Combined	W. E. Andrew	566,121	Aug. 18	2141	521	76	1056
Cape.	E. Rice	573,618	Dec. 22	2735	650	77	1851
Capstan.	C. A. Potter	555,121	Feb. 25	2356	560	74	993
Capstan.	H. L. Smith	572,457	Dec. 1	653	{ 154 155 }	77	1403
Capsule.	W. A. Hinchman	573,976	Dec. 29	3416	819	77	1991
Capsule-filling machine.	C. Schindler	566,098	Aug. 18	2093	512	76	1048
Capsule-forming device.	G. E. Reed	564,340	July 21	1940	458	76	389
Capsule-machine.	F. A. Hubel and J. M. Smith	557,073	Mar. 24	2823	673	74	1709
Capsule-machine.	S. A. Rickard	555,021	Feb. 18	2160	515	74	940
Car.	J. F. Stevenson	552,701	Jan. 7	352	92, 93	74	69
Car and air-brake coupling. Automatic	O. Lecompte	554,521	Feb. 11	1278	299	74	757
Car and air-brake coupling. Automatic	J. M. Rainey	574,268	Dec. 29	3981	{ 945 946 }	77	2093
Car and track. Railway.	H. G. Wesemann	558,540	Apr. 21	1814	441	75	377
Car and vestibule. Sleeping.	J. L. Bixby, Jr	552,682	Jan. 7	321	85	74	63
Car attachment.	W. J. Holmes	565,898	Aug. 18	1731	425	76	975
Car. Automatic dumping.	A. Rothschild	560,369	May 19	1884	{ 429 430 }	75	1098
Car-awning ventilator.	C. A. Bennett	565,401	Aug. 4	816	113	76	768
Car ballast-unloader.	P. E. Boyce	563,128	June 30	3656	875	75	2142
Car berths. Electric register for sleeping.	S. C. Skanks	553,320	Jan. 21	1515	363	74	311
Car body-bolster.	C. Hackney	557,070	Mar. 24	2821	672	74	1709
Car body-bolster. Railway.	R. H. Rapley	562,488	June 23	2465	603	75	1898
Car-bolster.	W. Case	565,404	Aug. 4	820	194	76	768
Car-bolster.	W. Case	565,405	Aug. 4	821	194	76	769
Car-bolster.	W. Stephan	566,546	Aug. 25	2900	707	76	1216
Car-bolster.	J. C. Wands	558,446	Apr. 14	1653	397	75	330
Car-bolster.	J. T. Wilson and G. W. Morris	553,377	Jan. 21	1615	385	74	330
Car-bolster. Metal.	W. Case	563,014	June 30	3440	827	75	2101
Car-bolster. Metal.	W. Case	570,979	Nov. 10	1007	{ 233 234 }	77	854
Car bolster. Railway.	C. T. Schoen	568,925	Oct. 6	351	81	77	67
Car bolster. Railway.	C. T. Schoen	574,116	Dec. 29	3659	{ 873 874 }	77	2036
Car-brake.	W. S. G. Baker	566,052	Aug. 18	2015	489	76	1033
Car-brake.	W. S. G. Baker	572,518	Dec. 8	754	180	77	1437
Car-brake.	R. H. Black	554,434	Feb. 11	1137	265	74	732
Car-brake.	W. J. Cartwright	570,594	Nov. 3	300	74	77	694

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.	Vol.	Page.
Car-brake	N. F. Corne	570,004	Oct. 27	2360	537	77	465
Car-brake	J. R. Cribbs	560,977	May 26	2994	688 659	75	1320
Car-brake	J. A. Criswell	558,898	Apr. 21	2424	590	75	489
Car-brake	J. U. Elwood	561,502	June 2	781	191	75	1518
Car-brake	P. Erb	554,113	Feb. 4	580	131	74	000
Car-brake	L. S. Fish	552,609	Jan. 7	184	51	74	36
Car-brake	W. M. Forbush	561,102	June 2	46	12	75	1376
Car-brake	J. Ford	560,428	May 19	2095	479	75	1136
Car-brake	A. H. Fox	554,507	Feb. 11	1255	293	74	753
Car-brake	F. Gabler	554,593	Feb. 11	1400	329	74	782
Car-brake	S. G. Howe	572,802	Dec. 8	1267	305 306	77	1538
Car-brake	B. F. Jackson	573,663	Dec. 22	2851	672	77	1872
Car-brake	J. Jamieson and R. Gray	568,908	Oct. 6	324	75	77	62
Car-brake	H. A. Krupke	555,011	Feb. 18	2142	510	74	936
Car-brake	E. E. La Rose	561,328	June 2	464	115 116	75	1460
Car-brake	C. Matthews	561,414	June 2	618	154	75	1487
Car-brake	W. A. McGuire and M. G. Hubbard, Jr.	557,013	Mar. 24	2741	649 650	74	1692
Car-brake	T. Millen	573,024	Dec. 15	1642	395	77	1630
Car-brake	E. Peckham	555,527	Mar. 3	70	15	74	1143
Car-brake	A. C. Ralph	558,208	Apr. 14	1236	301 302	75	251
Car-brake	W. Robinson	553,571	Feb. 4	101	21	74	524
Car-brake	G. I. Root	555,890	Mar. 3	688	166	74	1257
Car-brake	A. Ruthenberg	568,959	Oct. 6	417	93	77	80
Car-brake	H. H. Schrouder	564,226	July 21	1745	408	76	354
Car-brake	W. H. Tallman	566,814	Sept. 1	127	31	76	1305
Car-brake	E. Vallat, Sr.	563,103	June 30	3613	866	75	2134
Car-brake	G. E. Wheeler	553,442	Jan. 21	1713	409	74	349
Car-brake	W. S. Whitney	553,973	Feb. 4	310	69	74	561
Car-brake	D. L. Winters	561,445	June 9	1408	338	75	1660
Car-brake	R. G. Woodward	569,311	Oct. 13	1031	245	77	213
Car-brake	R. G. Woodward	569,312	Oct. 13	1033	245	77	213
Car-brake adjuster	J. Macbeth	556,011	Mar. 10	921	220	74	1321
Car brake and fender. Combined	A. K. Bonta	554,018	Feb. 4	395	86	74	577
Car brake and fender. Emergency	C. C. Peck	564,533	July 21	2256	530	76	446
Car-brake. Automatic	A. E. Wildman	565,248	Aug. 4	581	136	76	722
Car-brake clamp	R. P. Whitchee and J. Fitz Gibbons.	562,684	June 23	2823	685	75	1961
Car-brake. Electric	W. V. Ash	563,725	July 14	832	198	76	171
Car-brake. Electric	J. C. Henry	564,195	July 21	1700	397 398	76	345
Car-brake. Electric	A. W. Mitchell	564,632	July 28	2448	576	76	499
Car-brake. Electric	A. B. Roney	566,939	Sept. 1	349	82	76	1349
Car-brake. Electric	E. A. Sperry	574,120	Dec. 29	3670	875 876	77	2038
Car-brake. Emergency	O. H. Rieths	565,693	Aug. 11	1364	332	76	890
Car-brake mechanism	J. W. Rice	559,344	Apr. 28	3267	789	75	664
Car-brake-operating mechanism	E. E. La Rose	558,588	Apr. 21	1893	459	75	390
Car brake. Railway	E. Cliff	568,065	Sept. 22	2342	565	76	1757
Car brake. Railway	J. W. Valiant	552,599	Jan. 7	164	45	74	32
Car-brake. Safety	W. F. Condon	559,121	Apr. 28	2822	683	75	585
Car brake-shoe. Railway	H. F. Shaw	555,343	Feb. 25	2743	642	74	1066
Car brake. Street	C. W. Carter	563,446	July 7	357	82	76	69
Car brake. Street	P. Flood	566,072	Aug. 18	2050	499 500	76	1039
Car brake. Street	J. Morrison	560,226	May 19	1628	370	75	1053
Car brake. Street	W. G. Price	572,823	Dec. 8	1295	311	77	1543
Car brake. Street	W. G. Price	572,824	Dec. 8	1300	312	77	1545
Car brake. Street	W. G. Price	572,825	Dec. 8	1302	312	77	1545
Car brake. Tramway	J. B. Payne	563,795	July 14	953	227	76	195
Car brakes. Slack-adjuster for railway	M. J. Grier	570,925	Nov. 10	919	213	77	833
Car-buffer	W. F. Richards	557,684	Apr. 7	629	150	75	119
Car-buffer	W. F. Richards	558,209	Apr. 14	1238	302	75	251
Car-buffer	W. F. Richards	566,018	Aug. 18	1970	477 478 479	76	1025
Car-buffer	W. F. Richards	568,072	Sept. 22	2352	567 568	76	1759
Car-buffer equipment	H. H. Sessions	561,447	June 2	690	170	75	1500
Car buffer-platform. Railway	T. L. McKeen	573,187	Dec. 15	1938	466	77	1685
Car buffer-platform. Railway	T. L. McKeen and A. H. Renshaw	574,257	Dec. 29	3961	941	77	2089
Car buffer. Railway	T. L. McKeen	554,496	Feb. 11	1240	290	74	750
Car. Burglar-proof	S. H. Williams	554,162	Feb. 4	665	150	74	626
Car center plate	A. O. Buckius	571,610	Nov. 17	2088	501	77	1067
Car. Coal-dumping	W. G. Lane	568,775	Oct. 6	110	26	77	23
Car. Combination freight	T. S. Easterbrook	563,026	June 30	3464	832 833	75	2106
Car. Combined day and sleeping	J. L. Bixby, Jr.	552,629	Jan. 7	214	59, 60	74	42
Car. Combined freight and dumping	H. J. Schmick	559,222	Apr. 28	3065	740	75	627
Car. Combined sleeping and parlor	F. T. Reese and C. A. Willis	562,241	June 16	2071	502 503	75	1805
Car. Combined sleeping and parlor	F. T. Reese and C. A. Willis	562,242	June 16	2076	504	75	1805
Car. Combined stock and box	J. D. Grabill	553,193	Jan. 14	1285	311	74	255
Car construction	C. W. M. Smith	563,423	July 7	320	72	76	63
Car controller. Electric	E. A. Sperry	560,658	May 26	2439	558	75	1214
Car controller. Electric	E. A. Sperry	562,100	June 16	1849	449	75	1762
Car controller. Electric-railway	E. A. Sperry	565,939	Aug. 18	1821	442 443	76	995
Car controllers. Arc-interrupter for street	G. Valley	561,838	June 9	1398	335	75	1657
Car-controlling system	H. E. Hunt	555,376	Feb. 25	2802	658	74	1077
Car-coupling	G. Aabel	573,253	Dec. 15	2049	491	77	1706
Car-coupling	N. W. Aigler	572,395	Dec. 1	564	133	77	1385

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Car-coupling	A. D. Alden	569,481	Oct. 13	1301	{ 306 307 }	{ 77 77 }	262
Car-coupling	C. F. Bake	554,970	Feb. 18	2059	489	74	923
Car-coupling	C. F. Bake	574,233	Dec. 29	3927	934	77	2083
Car-coupling	F. D. Baker	570,976	Nov. 10	1000	232	77	853
Car-coupling	E. Balzer	568,726	Oct. 6	4	1	77	3
Car-coupling	F. C. Barker and G. W. S. Austin	553,224	Jan. 21	1338	325	74	250
Car-coupling	J. D. Barry	557,942	Apr. 7	732	176	75	138
Car-coupling	W. C. Beal	574,016	Dec. 29	3478	831	77	2002
Car-coupling	D. Bellon	566,291	Aug. 25	2406	591	76	1123
Car-coupling	A. H. Bezzo	563,735	July 14	847	201	76	175
Car-coupling	J. A. Blackburn	557,950	Apr. 7	757	181	75	142
Car-coupling	P. Bogler	566,650	Aug. 25	3039	743	76	1243
Car-coupling	A. W. Bonderson	560,254	May 19	1684	384	75	1064
Car-coupling	A. Bopp	572,288	Dec. 1	354	84	77	1347
Car-coupling	J. S. Boyd	553,505	Jan. 28	1825	432	74	386
Car-coupling	J. S. Boyd	553,506	Jan. 28	1826	433	74	386
Car-coupling	H. L. Boyer	559,097	Apr. 28	2780	674	75	574
Car-coupling	W. H. Brandenburg and F. H. Chilton	553,835	Feb. 4	26	7	74	509
Car-coupling	H. C. Buhoup	559,322	Apr. 28	3226	779	75	657
Car-coupling	H. C. Buhoup	566,057	Aug. 18	2026	{ 491 492 }	{ 76 76 }	1035
Car-coupling	H. C. Buhoup	569,954	Oct. 20	2175	{ 516 517 }	{ 77 77 }	437
Car-coupling	H. C. Buhoup	573,961	Dec. 29	3378	{ 808 809 }	{ 77 77 }	1985
Car-coupling	R. Burnham	573,658	Dec. 29	3177	757	77	1949
Car-coupling	W. B. Burns	552,953	Jan. 14	868	211	74	177
Car-coupling	J. E. Cady, Jr.	557,525	Mar. 31	3647	874	74	1883
Car-coupling	J. Callantine	567,678	Sept. 15	1649	397	76	1616
Car-coupling	J. H. Canaday	558,037	Apr. 14	951	234	75	196
Car-coupling	C. Carlson	553,207	Jan. 14	1311	318	74	260
Car-coupling	C. Carlson	553,332	Jan. 21	1538	267	74	315
Car-coupling	D. K. Clark	559,772	May 5	729	174	75	820
Car-coupling	J. W. Colbert	555,430	Feb. 25	2898	{ 689 690 }	{ 74 74 }	1094
Car-coupling	S. Coleman	554,984	Feb. 18	2084	496	74	927
Car-coupling	D. Collen	555,364	Feb. 25	2781	651	74	1073
Car-coupling	E. E. Coman and H. S. Seeley	562,378	June 23	2313	561	75	1865
Car-coupling	N. A. Cooper	564,973	Aug. 4	26	5	76	622
Car-coupling	O. Z. Contant	554,413	Feb. 11	1099	256	74	724
Car-coupling	F. D. Crandall	558,359	Apr. 14	1487	365	75	299
Car-coupling	J. Davis	555,437	Feb. 25	2918	693	74	1098
Car-coupling	M. M. Decker	554,336	Feb. 11	964	223	74	698
Car-coupling	H. Deitz	561,541	June 2	861	207	75	1532
Car-coupling	H. Deitz	561,542	June 2	862	207	75	1533
Car-coupling	H. Deitz	561,543	June 2	864	208	75	1533
Car-coupling	G. W. Dickey	561,572	June 9	920	220	75	1568
Car-coupling	J. C. Donahue	562,810	June 30	3057	739	75	2023
Car-coupling	A. S. Edey	556,406	Mar. 17	1682	392	74	1476
Car-coupling	R. J. Edwards	569,374	Oct. 13	1136	{ 270 271 }	{ 77 77 }	233
Car-coupling	C. Epps	557,502	Mar. 31	3611	866	74	1877
Car-coupling	J. H. Estes	565,110	Aug. 4	277	65	76	668
Car-coupling	P. C. Ewart	553,706	Jan. 28	2178	{ 516 517 }	{ 74 74 }	450
Car-coupling	T. Fales	572,416	Dec. 1	589	140	77	1390
Car-coupling	J. Farlow	566,749	Sept. 1	30	8	76	1286
Car-coupling	W. R. Fine	552,608	Jan. 7	182	50, 51	74	36
Car-coupling	O. Flohr	574,086	Dec. 29	3601	861	77	2026
Car-coupling	J. J. Flynn	571,155	Nov. 10	1328	309	77	913
Car-coupling	J. E. Forsyth	563,152	June 30	3693	884	75	2148
Car-coupling	F. H. Fox	560,788	May 26	2665	613	75	1258
Car-coupling	H. Gallager	558,061	Apr. 14	1002	244	75	205
Car-coupling	C. E. Gallanore	565,735	Aug. 11	1447	353	76	905
Car-coupling	P. Gallien	560,156	May 12	1488	{ 336 337 }	{ 75 75 }	977
Car-coupling	T. Galligan	567,465	Sept. 8	1293	313	76	1533
Car-coupling	J. Goettel	572,794	Dec. 8	1250	302	77	1535
Car-coupling	M. J. Grady and R. McMillan	563,166	June 30	3715	{ 888 889 }	{ 75 75 }	2153
Car-coupling	S. Grenier	565,977	Aug. 18	1904	462	76	1011
Car-coupling	J. G. Green	570,796	Nov. 3	684	157	77	765
Car-coupling	A. F. Guhl	569,639	Oct. 20	1615	380	77	336
Car-coupling	A. F. Guhl	570,171	Oct. 27	2552	606	77	523
Car-coupling	T. Hagen	555,506	Mar. 3	36	9	74	1137
Car-coupling	C. Halpin	574,323	Dec. 29	4066	966	77	2109
Car-coupling	C. H. Hamilton	571,520	Nov. 17	1935	462	77	1041
Car-coupling	R. G. Hardesty, J. F. Hale, and R. J. Welch	565,114	Aug. 4	290	69	76	670
Car-coupling	J. Harper	557,383	Mar. 31	3397	815	74	1836
Car-coupling	W. H. Hatfield	552,836	Jan. 7	633	155	74	119
Car-coupling	W. H. Hatfield	572,542	Dec. 8	791	189	77	1444
Car-coupling	R. Haub	553,239	Jan. 21	1364	332	74	285
Car-coupling	J. F. Hay	566,907	Sept. 1	292	68	76	1338
Car-coupling	P. Hien	555,950	Mar. 10	801	192	74	1299
Car-coupling	P. Hien	571,044	Nov. 13	1119	262	77	875
Car-coupling	A. C. Hight	555,445	Feb. 25	2936	697	74	1101
Car-coupling	J. A. Hinson	571,229	Nov. 10	1442	337	77	935
Car-coupling	J. Holm	564,376	July 21	1999	470	76	399
Car-coupling	J. D. Hood	572,425	Dec. 1	607	143	77	1393
Car-coupling	C. D. Horgan	562,827	June 30	3101	751	75	2031
Car-coupling	O. N. Horner	557,679	Apr. 7	280	67	75	53

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Car-coupling	H. W. Hueffelman	552,642	Jan. 7	233	64, 65	74	46
Car-coupling	D. L. Johnson and D. F. Hoots	555,168	Feb. 25	2433	576	74	1008
Car-coupling	W. Johnson	572,999	Dec. 15	1603	384	77	1622
Car-coupling	F. G. Kammerer	561,895	June 9	1489	359	75	1676
Car-coupling	E. W. Kelley	568,952	Oct. 6	402	91	77	77
Car-coupling	J. M. Kincaide	569,023	Oct. 6	530	122	77	101
Car-coupling	T. Kleimeier	556,990	Mar. 24	2681	{ 632 633 }	74	1681
Car-coupling	P. S. Knotts and P. M. Wolf	559,854	May 12	922	205	75	870
Car-coupling	F. Krusinski	568,356	Sept. 29	2850	685	76	1869
Car-coupling	A. F. Kuhlmann	567,902	Sept. 15	2017	484	76	1687
Car-coupling	J. M. Larkin	553,587	Jan. 28	1982	469	74	415
Car-coupling	C. Lee	571,771	Nov. 24	2383	569	77	1143
Car-coupling	J. Lessard	555,384	Feb. 25	2812	661	74	1079
Car-coupling	L. S. Lewis	571,673	Nov. 17	2187	527	77	1087
Car-coupling	F. Linde and P. A. Wutke	561,006	May 26	3041	700	75	1330
Car-coupling	J. L. Linou	567,485	Sept. 8	1327	320	76	1539
Car-coupling	B. M. Long and A. T. Anderson	556,995	Mar. 24	2689	634	74	1683
Car-coupling	J. C. Look	563,389	July 7	257	57	76	52
Car-coupling	M. L. Mardis	571,274	Nov. 10	1522	360	77	950
Car-coupling	J. D. Majors	566,991	Sept. 1	457	105	76	1368
Car-coupling	W. McConway	553,474	Jan. 21	1767	{ 421 422 }	74	359
Car-coupling	W. McConway, W. Kelso, and F. J. Curtis. (Reissue.)	11,546	June 2	872	210	75	1535
Car-coupling	C. H. McLaughlin	570,559	Nov. 3	238	59	77	682
Car-coupling	J. McMahon	561,548	June 2	870	{ 209 210 }	75	1534
Car-coupling	F. McTaggart	571,926	Nov. 24	2666	632	77	1196
Car-coupling	G. Meeker	556,827	Mar. 24	2414	567	74	1630
Car-coupling	S. J. Meeker	560,810	May 26	2696	620	75	1264
Car-coupling	S. J. Meeker and W. P. Deacon	560,910	May 26	2892	663	75	1301
Car-coupling	S. J. Meeker and C. H. Taylor	563,047	June 30	3494	839	75	2111
Car-coupling	L. L. Moe	573,896	Dec. 29	3252	{ 774 775 }	77	1962
Car-coupling	L. L. Moore	563,607	July 7	628	147	76	118
Car-coupling	V. V. Moore	574,340	Dec. 29	4102	974	77	2116
Car-coupling	C. Moradelli	556,018	Mar. 10	933	{ 222 223 }	74	1324
Car-coupling	C. Moradelli	558,409	Apr. 14	1577	{ 385 386 }	75	314
Car-coupling	J. Moss	557,215	Mar. 31	3096	742	74	1779
Car-coupling	G. R. J. Newman	572,710	Dec. 8	1100	266	77	1507
Car-coupling	J. W. Noble	558,414	Apr. 14	1586	387	75	316
Car-coupling	C. J. Nutt and F. Butin	556,766	Mar. 24	2310	543	74	1511
Car-coupling	T. J. Orr	567,109	Sept. 1	666	155	76	1408
Car-coupling	B. Owen	565,025	Aug. 4	114	27	76	639
Car-coupling	G. H. Pacaud	557,283	Mar. 31	3223	773	74	1802
Car-coupling	C. S. Park	567,770	Sept. 15	1799	431	76	1644
Car-coupling	C. Parker	561,237	June 2	278	70	75	1421
Car-coupling	R. L. Parker	562,849	June 30	3139	760	75	2039
Car-coupling	W. E. Pearson	565,689	Aug. 11	1358	330	76	889
Car-coupling	A. S. Peck	565,559	Aug. 11	1126	272	76	844
Car-coupling	C. Perkins	563,406	July 7	287	65, 66	76	57
Car-coupling	V. Pfaff	560,325	May 19	1810	412	75	1084
Car-coupling	V. Pfaff	560,326	May 19	1811	412	75	1085
Car-coupling	J. L. Pledger	571,622	Nov. 17	2107	505	77	1072
Car-coupling	R. W. Poteet and E. Fitzgerald	562,024	June 16	1707	415	75	1737
Car-coupling	G. B. Quarrier	564,160	July 14	1643	384	76	321
Car-coupling	H. Raymond	554,426	Feb. 11	1120	262	74	729
Car-coupling	L. E. Redden	562,028	June 16	1714	417	75	1739
Car-coupling	W. F. Richards	554,310	Feb. 11	920	211	74	691
Car-coupling	W. F. Richards	555,619	Mar. 3	223	53	74	1171
Car-coupling	W. F. Richards	560,864	May 26	2808	{ 644 645 }	75	1286
Car-coupling	W. F. Richards	562,916	June 30	3257	786	75	2062
Car-coupling	J. T. Roberts, J. and J. Cummins	553,426	Jan. 21	1691	403	74	344
Car-coupling	W. M. Robinson	554,201	Feb. 4	725	{ 164 165 }	74	638
Car-coupling	J. A. Roosevelt	554,538	Feb. 11	1301	{ 306 307 }	74	762
Car-coupling	G. K. Russell	570,684	Nov. 3	495	116	77	731
Car-coupling	H. Schaeffer	567,866	Sept. 15	1968	472	76	1678
Car-coupling	C. Schleicher	561,527	June 2	840	202	75	1528
Car-coupling	C. Schleicher	561,528	June 2	842	203	75	1529
Car-coupling	C. Schleicher	573,043	Dec. 15	1674	402	77	1637
Car-coupling	A. F. Schneider	568,799	Oct. 6	150	35	77	31
Car-coupling	P. Schreiber	564,768	July 28	2678	637	76	541
Car-coupling	D. J. Schulte. (Reissue)	11,556	July 7	825	197	76	154
Car-coupling	J. E. Scott	554,146	Feb. 4	637	144	74	621
Car-coupling	H. H. Sessions and A. P. Dennis	558,212	Apr. 14	1241	303	75	252
Car-coupling	A. Shapiro	558,116	Apr. 14	1086	266	75	222
Car-coupling	W. Shay	565,517	Aug. 11	1060	254	76	832
Car-coupling	W. F. Shoup and H. P. Vogan	560,437	May 19	2015	461	75	1122
Car-coupling	R. C. Simmons	573,546	Dec. 22	2615	621	77	1827
Car-coupling	L. N. Singin	570,211	Oct. 27	2627	623	77	536
Car-coupling	L. E. Sloan	560,374	May 19	1891	431	75	1099
Car-coupling	G. Smedeman	559,871	May 12	958	214	75	876
Car-coupling	G. W. Smillie	560,823	May 26	2716	624	75	1269
Car-coupling	G. W. Smillie	561,825	June 9	1360	329	75	1652
Car-coupling	B. F. Smith	561,140	June 2	108	30	75	1388
Car-coupling	C. H. Smith	560,439	May 19	2017	462	75	1122
Car-coupling	G. E. Smith	565,934	Aug. 18	1813	441	76	993
Car-coupling	J. F. Smith	554,547	Feb. 11	1316	309	74	765
Car-coupling	W. G. Smith	566,876	Sept. 1	234	54	76	1327

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Car-coupling	D. J. Stevenson	552,620	Apr. 21	1945	472	75	400
Car-coupling	C. H. Taylor	561,835	June 9	1329	333	75	1656
Car-coupling	C. H. Taylor	561,836	June 9	1390	333	75	1656
Car-coupling	J. C. Taylor	563,095	June 30	3600	863	75	2131
Car-coupling	J. C. Taylor	571,251	Nov. 10	1480	347	77	941
Car-coupling	J. Timms	554,746	Feb. 18	1664	392	74	848
Car-coupling	J. Timms	559,005	Apr. 28	2616	637	75	542
Car-coupling	J. Timms	566,550	Aug. 25	2905	708	76	1217
Car-coupling	C. A. Tower	557,917	Apr. 7	692	165	75	131
Car-coupling	C. A. Tower	557,918	Apr. 7	694	166	75	131
Car-coupling	A. G. Tupper	553,371	Jan. 21	1607	383	74	328
Car-coupling	J. N. Van Dorn and C. G. Seaman	559,235	Apr. 28	3080	743	75	630
Car-coupling	W. T. Van Dorn	566,822	Sept. 1	136	33	76	1307
Car-coupling	C. E. Ward	556,791	Mar. 24	2353	554	74	1619
Car-coupling	J. A. Ward	560,606	May 19	2291	525	75	1172
Car-coupling	E. C. Washburn	556,035	Mar. 10	969	232	74	1329
Car-coupling	E. C. Washburn	556,036	Mar. 10	970	232	74	1329
Car-coupling	A. S. Weaver	567,527	Sept. 8	1385	333	76	1549
Car-coupling	P. C. Weeks	554,755	Feb. 18	1681	396	74	851
Car-coupling	T. P. Weidler	570,652	Nov. 3	433	103	77	718
Car-coupling	M. I. Welch	571,030	Nov. 10	1094	255	77	870
Car-coupling	M. Wells	554,610	Feb. 11	1434	336	74	788
Car-coupling	H. G. Wesemann	552,579	Apr. 21	1880	456	75	388
Car-coupling	E. D. Whipple	561,150	June 2	134	36	75	1392
Car-coupling	E. D. Whipple	562,871	June 30	3183	770	75	2047
Car-coupling	W. U. Wilks	572,938	Dec. 8	1490	357	77	1584
Car-coupling	J. S. Williams	559,245	Apr. 28	3100	748	75	634
Car-coupling	J. Willison	561,843	June 9	1406	337	75	1659
Car-coupling	E. A. Yocum and M. O. Nichols	570,274	Oct. 27	2748	634	77	559
Car-coupling and brake. Combined	A. O'Brien and C. B. Miller	554,195	Feb. 4	712	161	74	635
Car-coupling and brake-operating attachment. Combined	E. Kaiser and J. Stocker	566,687	Aug. 25	3104	759	76	1254
Car-coupling appliance	C. M. Dorn	572,675	Dec. 8	1031	250	77	1495
Car-coupling. Automatic	J. J. Bolger	572,954	Dec. 15	1527	365	77	1607
Car-coupling. Automatic	J. Buckley	555,559	Mar. 3	128	29, 30	74	1154
Car-coupling. Automatic	M. A. McClearen	553,357	Jan. 21	1584	378	74	324
Car-coupling. Automatic	J. Wagner	559,470	May 5	208	46, 47	75	722
Car-coupling draft-rigging	J. A. Hinson	570,477	Nov. 3	67	16	77	650
Car-coupling mechanism	S. Keller	557,826	Apr. 7	543	130	75	102
Car-coupling-operating mechanism	J. E. H. Hyde	566,398	Aug. 25	2624	641	76	1164
Car coupling. Railway	W. Pinckert and C. Prutz	569,668	Oct. 20	1658	391	77	344
Car-coupling safety attachment	J. Timms	570,650	Nov. 3	431	102	77	718
Car-couplings. Means for attaching	E. Grafstrom	561,784	June 9	1301	312	75	1641
Car crossings. Electric signal for street	C. A. Parrish	570,046	Oct. 27	2325	551	77	478
Car-door	C. S. Bennet	563,008	June 30	3431	826	75	2100
Car-door	A. G. Bierbach	558,474	Apr. 21	1707	413	75	356
Car-door	T. W. Bradman and H. Hines	553,447	Jan. 21	1719	410	74	350
Car-door	H. G. Coder and F. C. Ruffhead	552,821	Jan. 7	608	147	74	114
Car-door	T. Eubank	553,281	Jan. 21	1454	349	74	300
Car-door	H. W. F. Jaeger	554,932	Feb. 18	1998	350	74	911
Car-door	E. P. Monroe	557,009	Mar. 24	2726	646	74	1689
Car-door	J. J. Mulligan	554,078	Feb. 4	503	113	74	597
Car-door	J. W. Parker	564,157	July 14	1639	383	76	320
Car-door	E. R. M. Pierce	555,969	Mar. 10	837	199	74	1306
Car-door	A. M. Waitt	570,074	Oct. 27	2386	566	77	491
Car-door	A. M. Waitt and H. F. Ball	570,075	Oct. 27	2388	566	77	491
Car-door and running-board. Combination stock	J. B. Smiley and W. B. Cheek	566,029	Aug. 18	1985	481	76	1029
Car-door case and cleat	J. W. Jordan	557,273	Mar. 31	3203	768	74	1798
Car-door fastener	E. L. Rickson	562,743	June 23	2931	711	75	1982
Car-door fastening	F. H. Meyers	554,133	Feb. 4	618	139	74	618
Car-door fastening. Mine	A. Maxwell	565,229	Aug. 4	633	150	76	733
Car-door fastening. Mining	J. H. Watt	558,447	Apr. 14	1655	397	75	330
Car-door. Freight	A. P. Le Gros	565,286	Aug. 4	628	149	76	732
Car-door. Grain	W. J. Johnston	569,923	Oct. 20	2112	502	77	425
Car-door. Grain	G. H. Treadgold and J. E. Mills	568,182	Sept. 22	2553	614	76	1798
Car-door. Grain	G. H. Treadgold and J. E. Mills	568,183	Sept. 22	2554	615	76	1798
Car-door lock	A. A. Andersen	559,431	May 5	150	33	75	710
Car-door. Sliding	S. Schallenberger	573,456	Dec. 22	2515	596	77	1808
Car draft-gear. Street	R. Dunning	566,566	Aug. 25	2924	713	76	1220
Car draft-iron. Railway	W. Case	570,980	Nov. 10	1008	234	77	854
Car draft mechanism. Railway	H. H. Marshall	555,520	Mar. 3	60	13	74	1141
Car draft-rigging	W. H. Miner	570,038	Oct. 27	2312	549	77	476
Car draft-rigging	G. L. Weiss	569,695	Oct. 20	1716	407	77	355
Car draft-rigging	G. L. Weiss	569,696	Oct. 20	1717	408	77	355
Car draft-rigging. Railway	F. L. Lamkey	563,283	July 7	83	21	76	18
Car draft-rigging. Railway	J. A. Roosevelt	555,023	Feb. 18	2163	516	74	940
Car draw-bar attachment. Street	W. T. Van Dorn	569,729	Oct. 20	1769	425	77	366
Car draw-bar. Railway	J. W. Boggs	553,387	Jan. 21	1626	387	74	332
Car draw-bar. Railway	J. Shaw	560,436	May 19	2014	461	75	1121
Car driving-gear. Motor	H. Schumm	572,453	Dec. 1	649	132	77	1402
Car drop-door	J. E. Simons	553,792	Jan. 28	2315	549	74	477

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Car. Dump.....	E. A. Trapp.....	571,058	Nov. 10	1138	{ 266	77	879
Car. Dumping.....	M. F. Blake.....	567,019	Sept. 1	505	{ 267		
Car. Dumping.....	S. J. Johnson.....	571,480	Nov. 17	1859	{ 442	77	1027
Car. Dumping.....	S. J. Johnson.....	571,481	Nov. 17	1861	{ 443		
Car. Dumping.....	S. J. Johnson.....	571,482	Nov. 17	1863	{ 444	77	1027
Car. Dumping.....	S. J. Johnson.....	571,483	Nov. 17	1865	{ 445		
Car. Dumping.....	S. J. Johnson.....	571,484	Nov. 17	1866	{ 446	77	1028
Car. Dumping.....	W. McMahon.....	554,531	Feb. 11	1291	{ 303		
Car. Dumping.....	C. D. Page.....	559,402	May 5	97	{ 21	75	699
Car. Dumping.....	E. T. Thomas and A. Melhado.....	552,595	Jan. 7	156	{ 43		
Car-dumping apparatus.....	G. H. Williams.....	557,742	Apr. 7	397	{ 93	75	75
Car-dumping machine.....	G. H. Hulett.....	568,851	Oct. 6	239	{ 55, 56		
Car-dumping machine.....	J. McMyler.....	558,200	Apr. 14	1221	{ 297	75	248
Car-dumping machinery.....	E. C. Clarkson.....	556,458	Mar. 17	1785	{ 413		
Car-dumping mechanism.....	G. H. Hulett.....	558,178	Apr. 14	1188	{ 289	75	242
Car. Electric.....	J. C. Henry.....	561,224	June 2	257	{ 63, 64		
Car. Electric.....	J. C. Henry.....	561,225	June 2	260	{ 64, 65	75	1418
Car. Electric-railway.....	H. P. Wellman.....	558,870	Apr. 21	2376	{ 579		
Car. Elevated-railway.....	W. T. Shaffer.....	565,124	Aug. 4	306	{ 73	76	673
Car-equalizer, Street.....	M. E. Meek.....	562,406	June 23	2349	{ 574		
Car-fender.....	W. B. Altick.....	565,065	Aug. 4	175	{ 41	76	649
Car-fender.....	D. Ambrose.....	560,055	May 12	1297	{ 291		
Car-fender.....	L. E. Anderson.....	557,750	Apr. 7	417	{ 97, 98	75	941
Car-fender.....	W. B. Baker.....	568,969	Oct. 6	434	{ 97		
Car-fender.....	W. Batten.....	558,711	Apr. 21	2103	{ 508	75	429
Car-fender.....	D. O. Beckwith.....	573,638	Dec. 22	2797	{ 509		
Car-fender.....	G. W. Bennum.....	568,187	Sept. 22	2559	{ 616	76	1799
Car-fender.....	P. Best.....	561,155	June 2	143	{ 38		
Car-fender.....	N. J. Bishoprick.....	555,204	Feb. 25	2499	{ 590	74	1020
Car-fender.....	N. J. Bishoprick.....	565,595	Aug. 11	1194	{ 286		
Car-fender.....	H. Boemermann and O. Olsen.....	557,951	Apr. 7	759	{ 287	75	142
Car-fender.....	H. Burden.....	559,436	May 5	159	{ 34		
Car-fender.....	W. Burgey.....	553,050	Jan. 14	1020	{ 250	74	205
Car-fender.....	A. M. Chavez.....	556,619	Mar. 17	2059	{ 481		
Car-fender.....	W. Christian.....	562,457	June 23	2443	{ 593	75	1890
Car-fender.....	W. S. Clement and C. F. S. Mann.....	553,208	Jan. 14	1312	{ 318		
Car-fender.....	A. F. S. Colburn.....	568,191	Sept. 22	2567	{ 618	76	1,000
Car-fender.....	C. K. Colby.....	564,006	July 14	1352	{ 315		
Car-fender.....	F. W. Darling.....	556,810	Mar. 24	2384	{ 560	74	1624
Car-fender.....	U. Dietz.....	555,223	Feb. 25	2641	{ 618		
Car-fender.....	P. B. Donahoo.....	564,599	July 28	2394	{ 619	76	469
Car-fender.....	W. T. Donohue.....	560,482	May 19	2085	{ 475		
Car-fender.....	C. A. L. Du Quesnay.....	553,186	Jan. 14	1273	{ 308	74	252
Car-fender.....	P. Dunwald.....	559,269	Apr. 28	3139	{ 759		
Car-fender.....	S. Ellison.....	553,155	Jan. 14	1212	{ 294	74	242
Car-fender.....	W. Everdell.....	558,793	Apr. 21	2247	{ 543		
Car-fender.....	M. Fernandez.....	560,849	May 26	2778	{ 637	75	1280
Car-fender.....	C. Fink.....	569,330	Oct. 13	1064	{ 252		
Car-fender.....	O. B. Finn.....	563,951	July 14	1259	{ 295	76	249
Car-fender.....	H. D. Fisher.....	569,624	Oct. 20	1577	{ 296		
Car-fender.....	R. S. Flint.....	555,083	Feb. 25	2288	{ 371	77	329
Car-fender.....	M. F. Flynn.....	553,522	Jan. 28	1863	{ 545		
Car-fender.....	W. L. Friedlein.....	568,302	Sept. 22	2751	{ 441	74	393
Car-fender.....	M. Fulton.....	556,410	Mar. 17	1691	{ 442		
Car-fender.....	T. F. Gardner and M. J. Carney.....	553,849	Feb. 4	66	{ 394	74	1478
Car-fender.....	H. D. Gardy.....	561,218	June 2	247	{ 395		
Car-fender.....	W. B. George.....	574,029	Dec. 29	3501	{ 14	75	517
Car-fender.....	J. P. Geraghty.....	557,262	Mar. 31	3178	{ 59		
Car-fender.....	J. Gibson and J. Watson.....	569,822	Oct. 20	1947	{ 836	77	2006
Car-fender.....	J. F. Girdler.....	554,119	Feb. 4	591	{ 837		
Car-fender.....	W. D. Gold.....	554,487	Feb. 11	1227	{ 763	74	1794
Car-fender.....	F. J. Graf.....	561,163	June 2	155	{ 483		
Car-fender.....	E. S. Graham.....	556,969	Mar. 24	2649	{ 133	74	612
Car-fender.....	J. A. Graham.....	572,601	Dec. 8	906	{ 287		
Car-fender.....	W. Grunow, Jr.....	560,029	May 12	1250	{ 40, 41	75	1396
Car-fender.....	W. Grunow, Jr.....	566,394	Aug. 25	2616	{ 75		
Car-fender.....	D. Guarino.....	560,030	May 12	1252	{ 622	74	1675
Car-fender.....	D. Guarino.....	572,984	Dec. 15	1580	{ 219		
Car-fender.....	L. Hachenberg.....	553,524	Jan. 28	1868	{ 77	1470	1470
Car-fender.....	O. G. Hallenbeck.....	556,645	Mar. 24	2434	{ 280		
Car-fender.....	T. C. Hammond.....	557,201	Mar. 31	3073	{ 639	76	1162
Car-fender.....	S. J. Harris.....	572,752	Dec. 8	1180	{ 281		
Car-fender.....	W. Hemstreet.....	556,267	Mar. 10	1402	{ 379	77	1617
Car-fender.....	G. A. Henry.....	569,457	Oct. 13	1265	{ 442		
Car-fender.....	W. H. H. Heydrick.....	554,064	Feb. 4	470	{ 74	74	591
Car-fender.....	D. Hitchcock.....	566,174	Aug. 18	2221	{ 572		
Car-fender.....	G. B. Hoak.....	572,753	Dec. 8	1181	{ 737	74	1775
Car-fender.....	F. J. Hopkins and G. H. Miller.....	560,902	May 26	2878	{ 284		
Car-fender.....	W. H. Horstmann.....	564,198	July 21	1704	{ 660	75	1299
Car-fender.....	W. R. Howe.....	568,906	Oct. 6	321	{ 661		
Car-fender.....	W. R. Howe.....	568,906	Oct. 6	321	{ 398	76	346
Car-fender.....	W. R. Howe.....	568,906	Oct. 6	321	{ 399		
Car-fender.....	W. R. Howe.....	568,906	Oct. 6	321	{ 74	77	62
Car-fender.....	W. R. Howe.....	568,906	Oct. 6	321	{ 74		

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Car-fender	R. C. Hoyer	563,594	July 7	606	141	76	113
Car-fender	R. C. Hoyer	570,758	Nov. 3	626	144	77	753
Car-fender	L. A. Hufschmidt and R. Styles	570,402	Oct. 27	3018	715	77	608
Car-fender	A. and A. Iske	560,317	May 19	1794	409	75	1082
Car-fender	C. F. Jahn	564,692	July 28	2534	599 600	76	516
Car-fender	P. Jones	557,206	Mar. 31	3082	739	74	1777
Car-fender	W. H. Kaltenbeck	565,621	Aug. 11	1233	297	76	864
Car-fender	W. H. Kaltenbeck	571,528	Nov. 17	1948	465	77	1043
Car-fender	J. B. Kendall	553,754	Jan. 28	2262	536	74	466
Car-fender	W. J. Kendall	573,415	Dec. 15	2346	560 561	77	1759
Car-fender	J. Kerrigan	555,777	Mar. 3	479	115	74	1217
Car-fender	S. A. Kneedler	560,318	May 19	1796	409	75	1082
Car-fender	F. W. Lafferty	555,382	Feb. 25	2809	660	74	1078
Car-fender	P. E. Law	564,827	July 28	2773	659	76	558
Car-fender	W. H. Leavitt	554,883	Feb. 18	1912	450	74	895
Car-fender	W. Leonhardt	555,103	Feb. 25	2325	552 553	74	987
Car-fender	H. Lotzgesell	570,099	Oct. 27	2431	578	77	499
Car-fender	A. A. Lydecker	570,645	Nov. 3	419	99	77	716
Car-fender	W. A. Lyon, S. E. Dunham, H. M. and W. E. Sproul	566,328	Aug. 25	2461	608	76	1137
Car-fender	C. P. Mains	558,404	Apr. 14	1567	382	75	312
Car-fender	C. F. Maisch	571,779	Nov. 24	2395	572	77	1145
Car-fender	W. J. McClenahan	567,914	Sept. 15	2033	488	76	1691
Car-fender	E. McCreary	565,914	Aug. 18	1776	433	76	985
Car-fender	R. C. McGuire	553,591	Jan. 28	1987	471	74	416
Car-fender	P. McMenamin	557,145	Mar. 31	2958	708	74	1758
Car-fender	P. McMenamin	565,558	Aug. 11	1122	271 272	76	843
Car-fender	J. S. Meredith	570,134	Oct. 27	2487	590	77	510
Car-fender	T. M. Miller	570,943	Nov. 10	953	221	77	844
Car-fender	L. L. Mincer	562,477	June 23	2470	590	75	1895
Car-fender	J. B. Morrow and F. C. Robertson	552,852	Jan. 7	655	160	74	123
Car-fender	S. W. Neall	558,833	Apr. 21	2310	562	75	467
Car-fender	F. W. Nye	561,061	May 26	3131	722	75	1346
Car-fender	F. Oakden	557,598	Apr. 7	125	32	75	25
Car-fender	F. Padberg and C. Hummel	557,316	Mar. 31	3279	786	74	1812
Car-fender	H. Parpert	554,301	Feb. 11	905	209	74	688
Car-fender	E. E. Phinney	573,352	Dec. 15	2242	536	77	1740
Car-fender	S. A. Politsky	555,119	Feb. 25	2354	560	74	992
Car-fender	S. A. Politsky	557,226	Mar. 31	3110	746	74	1782
Car-fender	S. A. Politsky	558,922	Apr. 28	2576	626	75	535
Car-fender	C. M. Pratt	555,400	Feb. 25	2839	669	74	1083
Car-fender	R. F. Preusser	562,320	June 16	2207	536 537	75	1830
Car-fender	R. B. Pullan	563,062	June 30	3517	845	75	2115
Car-fender	M. Queen	564,645	July 28	2467	581	76	503
Car-fender	F. Reeve	566,225	Aug. 18	2304	564	76	1088
Car-fender	J. J. Renahan	559,084	Apr. 28	2746	668	75	567
Car-fender	C. E. Rice and S. F. Ettinger	574,344	Dec. 29	4107	976	77	2117
Car-fender	M. Rings	574,044	Dec. 29	3530	843	77	2012
Car-fender	G. Rischmuller	558,112	Apr. 14	1080	265	75	221
Car-fender	J. T. Rodgers and W. L. Crowson	552,927	Jan. 14	823	200	74	168
Car-fender	S. H. Rodick	553,020	Jan. 14	973	235	74	196
Car-fender	A. Scheid	557,697	Apr. 7	649	156 157	75	122
Car-fender	J. L. Schuman	553,266	Jan. 21	1413	344	74	294
Car-fender	L. E. Sicard and J. Frazee	554,149	Feb. 4	642	145	74	622
Car-fender	A. D. Simpson and A. Bigelman	570,611	Nov. 3	326	80, 81	77	699
Car-fender	E. Spangenberg	566,347	Aug. 25	2514	616	76	1143
Car-fender	M. Sparmo	552,789	Jan. 7	533	131	74	100
Car-fender	M. Sparmo and L. Russo	573,242	Dec. 15	2031	487	77	1702
Car-fender	J. M. Staley	570,571	Nov. 3	259	64	77	666
Car-fender	I. N. Stanley	571,175	Nov. 10	1353	316	77	918
Car-fender	A. Steiert	555,292	Feb. 25	2658	622	74	1050
Car-fender	T. Stein	556,381	Mar. 17	1640	383	74	1468
Car-fender	J. W. Swarts	561,293	June 2	407	101	75	1449
Car-fender	J. R. Thomas	566,879	Sept. 1	242	55, 56	76	1329
Car-fender	W. Thompson	569,684	Oct. 20	1700	402	77	351
Car-fender	W. Waegel	558,538	Apr. 21	1811	440	75	376
Car-fender	J. T. Ward	572,587	Dec. 8	879	212	77	1464
Car-fender	C. N. Washburn and J. V. R. Ferris	566,256	Aug. 18	2349	575 576	76	1096
Car-fender	P. J. Waters	571,714	Nov. 17	2259	543	77	1100
Car-fender	W. M. Watts	574,081	Dec. 29	3593	858 859	77	2024
Car-fender	H. A. Webster	560,953	May 26	2965	680	75	1315
Car-fender	H. A. Webster	562,942	June 30	3314	798	75	2076
Car-fender	H. A. Webster	564,400	July 21	2042	479	76	408
Car-fender	H. A. Webster	572,389	Dec. 1	553	131	77	1383
Car-fender	G. A. Weed	569,848	Oct. 20	1990	475	77	403
Car-fender	M. Weissel	571,938	Nov. 24	2689	636	77	1202
Car-fender	C. Welsh	554,158	Feb. 4	660	149	74	626
Car-fender	O. A. White	562,870	June 30	3182	771	75	2047
Car-fender	O. L. Whitney	563,109	June 30	3625	869	75	2136
Car-fender	C. M. Wilcox	553,549	Jan. 23	1909	452	74	401
Car-fender	R. Wilkinson	559,091	Apr. 25	2769	670	75	572
Car-fender	G. W. Willey	569,690	Oct. 20	1726	410	77	356
Car-fender	D. Williamson	564,266	July 21	1818	426	76	367
Car-fender	J. A. G. O. Wolters	572,235	Dec. 1	248	59	77	1326
Car-fender	S. D. Wright	557,930	Apr. 7	714	172	75	135
Car-fender	S. D. Wright	560,959	May 26	2973	682	75	1317

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Car-fender	W. P. Young	552,655	Jan. 7	272	74	74	53
Car-fender	W. P. Young	560,075	May 12	1343	301	75	949
Car fender and brake	G. W. Beard	554,167	Feb. 4	677	{ 152 153 }	74	629
Car fender and brake	E. F. Dieterichs	562,288	June 16	2151	523	75	1819
Car fender and brake	C. F. Grather	559,891	May 12	1000	222	75	884
Car fender and brake	J. Matzinger	563,606	July 7	626	146	76	118
Car-fender and safety attachment	A. O. Cunningham	560,843	May 26	2763	{ 633 634 }	75	1277
Car-fender attachment	R. Muir	554,525	Feb. 11	1253	301	74	759
Car-fender. Automatic	D. Bentley	563,642	July 7	678	159	76	127
Car-fender. Automatic	C. Cogniasse and D. F. Shultz	562,171	June 16	1960	475	75	1783
Car-fender. Automatic	D. F. Manning	554,495	Feb. 11	1238	{ 289 290 }	74	750
Car-fender. Automatic	G. C. and W. J. Straub and F. A. Gestner	556,444	Mar. 17	1759	409	74	1492
Car fender or guard	H. Schweers	554,462	Feb. 11	1187	{ 276 277 }	74	741
Car-fender. Safety	W. H. Bell	563,439	July 7	348	80	76	68
Car-fender. Safety	W. A. and H. W. Blakeney	565,256	Aug. 4	591	139	76	723
Car-fender. Safety	G. P. Kato, Jr	559,979	May 12	1155	258	75	916
Car fender. Street	H. L. Pedford	553,664	Jan. 28	2108	{ 498 499 }	74	436
Car fender. Street	R. W. Gibson	555,316	Feb. 25	2700	{ 632 633 }	74	1058
Car fender. Street	C. A. Hallqvist	559,029	Apr. 28	2654	{ 646 647 }	75	550
Car fender. Street	P. Hennessy	567,388	Sept. 8	1172	{ 280 281 }	76	1509
Car fender. Street	A. Knoblauch	562,769	June 23	2972	720	75	1991
Car fender. Street	D. Leib	556,061	Mar. 10	1022	244	74	1339
Car fender. Street	J. H. Leightner	560,270	May 19	1711	389	75	1069
Car fender. Street	J. H. MacDonald	557,336	Mar. 31	3311	795	74	1819
Car fender. Street	B. F. Seymour	573,434	Dec. 15	2412	574	77	1771
Car fender. Street	W. Spencer	557,161	Mar. 31	2984	713	74	1763
Car fender. Street	C. A. Thomas	556,384	Mar. 17	1643	384	74	1469
Car fender. Street	C. E. Wingate	559,047	Apr. 28	2690	655	75	556
Car-fender. Unremitting rotary	J. J. Holloway and J. W. Stark-weather	571,320	Nov. 10	1597	379	77	965
Car-fenders. Frame for supporting	A. Adair, Jr.	572,394	Dec. 1	562	133	77	1385
Car fluid-pressure-brake-operating device. Individual.	H. S. Bills	568,714	Sept. 29	3500	{ 837 838 }	76	1991
Car. Freight	J. Carr	556,960	Mar. 24	2630	618	74	1670
Car. Freight	G. B. Davis	563,022	June 30	3459	831	75	2105
Car. Freight	J. M. Peet	570,331	Oct. 27	2890	686	77	584
Car-gate. Folding	C. O. Hood	559,331	Apr. 28	3248	784	75	661
Car. Gondola	W. S. Schroeder	572,279	Dec. 1	336	80	77	1343
Car gongs. Actuating device for street	T. Kelly	573,224	Dec. 15	2003	481	77	1697
Car. Grain	F. H. Osterhaus	571,841	Nov. 24	2507	593	77	1166
Car. Grain	J. Pearson	556,768	Mar. 24	2312	543	74	1611
Car grain-door	T. R. Parker	570,950	Nov. 10	965	224	77	847
Car gripping mechanism	W. Vogt	571,812	Nov. 24	2450	583	77	1156
Car guard. Freight	A. M. Smith, Jr	560,238	May 19	1650	375	75	1058
Car guard. Open-street	E. W. Phinney and E. E. Adams	563,209	June 30	3795	910	75	2168
Car guard or fender	J. Gibbons	552,639	Jan. 7	230	63, 64	74	45
Car guard. Railway	J. H. and H. W. Thayer	554,898	Feb. 18	1940	456	74	900
Car. Hand	A. Hitt	553,617	Jan. 28	2026	{ 479 480 }	74	423
Car. Hand	W. H. Saladee	558,615	Apr. 21	1939	470	75	399
Car. Hand	H. Small	567,362	Sept. 8	1131	{ 271 272 }	76	1503
Car hand-strap. Street	J. P. Barnes	559,092	Apr. 28	2644	644	75	548
Car-heater. Electric	J. G. Noyes	557,262	Mar. 31	3223	773	74	1801
Car-heater. Electric	J. G. Noyes	568,168	Sept. 22	2529	608	76	1793
Car-heating apparatus	E. E. Gold	566,904	Sept. 1	286	66, 67	76	1337
Car-heating apparatus	E. E. Gold	571,359	Nov. 17	1660	{ 393 394 }	77	991
Car-heating apparatus	E. E. Gold	572,254	Dec. 1	280	67, 68	77	1332
Car holder	T. R. Newman	569,797	Oct. 20	1910	453	77	388
Car holding-strap. Street	J. P. Barnes	560,125	May 19	1548	350	75	1040
Car-jack	E. E. Taylor	564,233	July 21	1758	411	76	356
Car-journal-box dust-guard	T. B. Phelps	559,984	May 12	1166	260	75	918
Car life-guard. Street	G. A. Parmenter	558,659	Apr. 21	3012	487	75	412
Car-lighting apparatus. Electric	W. Biddle	555,068	Feb. 25	2253	538	74	972
Car-lighting. Electric	W. J. Morden	565,913	Aug. 18	1774	{ 432 433 }	76	985
Car-lighting system. Electric	A. H. Armstrong	556,079	Mar. 10	1058	252	74	1345
Car-loader	H. Phillips and W. Hunt	570,880	Nov. 3	839	196	77	796
Car-lock. Pneumatic	F. C. Conrad and C. W. Goodspeed	564,304	July 21	1877	441	76	377
Car lubricator. Coal	G. Maurer	553,684	Jan. 22	2141	507	74	442
Car. Metallic	W. Pennock	571,883	Nov. 24	2582	{ 611 612 613 }	77	1180
Car. Metallic	W. Pennock	571,884	Nov. 24	2585	{ 613 614 }	77	1181
Car motor	W. Robinson	572,685	Dec. 8	1047	254	77	1498
Car motor. Electric	C. S. Bradley	570,119	Oct. 27	2464	584	77	505
Car motor. Electric street	S. Harris	558,491	Apr. 21	1738	421	75	362
Car motor. Street	J. W. Dean and J. C. Snyder	561,769	June 9	1269	{ 302 303 }	75	1636
Car motor. Street	T. D. Hoskins	564,618	July 28	2424	571	76	495
Car motor. Street	J. M. Olinger	572,817	Dec. 8	1287	{ 309 310 }	77	1542

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Car motor. Street.....	B. C. Pole.....	561,433	June 2	662	162 163 164	75	1496
Car motor. Street.....	C. L. Saunders.....	556,105	Mar. 10	1100	262	74	1352
Car-mover.....	H. A. Baxter.....	562,450	June 23	2429	589	75	1887
Car-mover.....	P. H. Jacobus.....	558,076	Apr. 14	1027	250	75	210
Car-mover.....	H. L. Mariett.....	552,537	Jan. 7	59	17	74	14
Car or buggy. Dumping.....	J. J. Foss.....	557,985	Apr. 7	819	195	75	154
Car or carriage.....	H. W. D. Dunlop.....	559,094	Oct. 6	650	150	75	124
Car or locomotive wheels. Flanged metal tire for.....	H. A. Harvey.....	560,161	May 12	1493	337	75	978
Car or truck.....	H. G. Wesemann.....	558,059	Sept. 22	2330	563	76	1755
Car or wagon. Dumping.....	J. G. Holcombe.....	566,175	Aug. 18	2223	542	76	1071
Car. Ore.....	W. C. Davis.....	552,750	Jan. 7	454	113	74	86
Car partition. Stock.....	W. A. Morton.....	567,544	Sept. 8	1411	339	76	1554
Car-pilot.....	R. Dunning.....	572,652	Dec. 8	990	238 239	77	1486
Car pilot. Railway.....	E. P. McKaig.....	553,787	Jan. 28	2308	547 548	74	475
Car platform and fender. Combined.....	H. Fitzgerald and G. H. Zane.....	572,700	Dec. 8	1079	262	77	1503
Car-platform buffer.....	H. H. Sessions.....	554,007	Feb. 4	371	81, 82	74	573
Car. Platform dumping.....	S. Webber.....	552,799	Jan. 7	556	135	74	105
Car power-brake. Railway.....	B. Wolhaupter and W. S. Jones.....	553,883	Feb. 4	134	26, 27	74	530
Car. Railway.....	A. Bierstadt.....	559,962	May 12	1118	250	75	905
Car. Railway.....	A. Bierstadt.....	559,963	May 12	1122	251	75	907
Car. Railway.....	A. Bierstadt.....	559,964	May 12	1123	251	75	908
Car. Railway.....	A. Bierstadt.....	559,965	May 12	1127	252	75	909
Car. Railway.....	A. Bierstadt.....	559,966	May 12	1132	252 253	75	911
Car. Railway.....	A. Bierstadt.....	566,127	Aug. 18	2149	523 524	76	1057
Car. Railway.....	F. W. Dunton.....	562,218	June 16	2037	493	75	1798
Car. Railway.....	F. W. Dunton.....	562,290	June 16	2154	524	75	1820
Car. Railway.....	W. Eberle.....	557,061	Mar. 24	2810	668 669	74	1706
Car. Railway.....	J. A. Miller.....	568,166	Sept. 22	2523	607 608	76	1792
Car. Railway.....	W. G. Richards.....	555,971	Mar. 10	840	200 201	74	1307
Car. Railway.....	W. G. Richards.....	571,577	Nov. 17	2032	483	77	1058
Car. Railway.....	M. B. Schaffer.....	562,037	June 16	1734	420	75	1742
Car. Railway.....	H. H. Sessions.....	562,343	June 16	2255	546 547	75	1838
Car. Railway.....	J. Shaw.....	569,676	Oct. 20	1679	398	77	348
Car. Railway.....	G. T. Tribe.....	554,900	Feb. 18	1945	457 458	74	901
Car register. Street.....	G. Rein.....	561,129	June 2	87	24 25 26	75	1384
Car-replacer.....	R. E. Alexander.....	572,669	Dec. 8	1018	246	77	1492
Car-replacer.....	G. R. Dodd.....	563,223	June 30	3819	915	75	2172
Car-replacer.....	R. B. Hawkins.....	554,512	Feb. 11	1265	296	74	755
Car-replacer.....	M. Herstrom and W. A. Grandjean.....	553,818	Jan. 28	2366	563	74	486
Car-replacer.....	J. Ragan.....	565,506	Aug. 11	1043	250	76	829
Car-replacing frog.....	W. A. Adams.....	573,380	Dec. 15	2287	545	77	1748
Car-roof.....	L. C. Marshall.....	563,718	July 7	812	194	76	152
Car-roof.....	P. H. Murphy.....	554,287	Feb. 11	877	202	74	682
Car-roof.....	P. H. Murphy.....	554,288	Feb. 11	878	202 203	74	683
Car-roof.....	J. Voelkel.....	561,540	June 9	1401	335 336	75	1658
Car roof. Freight.....	A. P. Le Gros.....	561,406	June 2	609	151	75	1456
Car roofs. Covering for freight.....	S. W. Hempsted.....	556,973	Mar. 24	2654	623	74	1676
Car running-board attachment. Street.....	W. Wiggins.....	560,454	May 19	2046	466	75	1126
Car safety appliance. Street.....	W. Wiggins.....	570,888	Nov. 3	860	200	77	801
Car safety attachment.....	C. D. Shrader.....	555,908	Mar. 3	714	172	74	1262
Car safety-brake. Street.....	B. L. Kilgour.....	573,516	Dec. 22	2561	608	77	1816
Car safety-brake. Street.....	W. Rittenhouse and I. L. Crippen.....	558,312	Apr. 14	1416	348	75	286
Car safety device. Railway.....	C. A. Ball.....	562,881	June 30	3202	774 775	75	2051
Cars safety-fender.....	G. H. Moller.....	557,334	Mar. 31	3308	793 794	74	1818
Car safety-fender. Street.....	J. W. Angell.....	571,256	Nov. 10	1485	349 350	77	942
Car safety-guard.....	A. J. Brown.....	569,168	Oct. 13	776	181 182	77	164
Car safety-guard. Street.....	P. F. Haran.....	556,672	Mar. 17	2131	497	74	1560
Car safety-guard. Street.....	T. C. Kennedy and T. Maxon.....	564,521	July 21	2234	524	76	442
Car safety-guard. Street.....	C. M. Pratt.....	564,027	July 14	1386	322	76	273
Car sand-box.....	A. W. Ham.....	556,885	Mar. 24	2508	591	74	1649
Car sand-box.....	E. Heiz.....	563,035	June 30	3476	835	75	2108
Car sand-box.....	S. S. Schofield and H. E. Haddock.....	568,497	Sept. 29	3088	744	76	1914
Car sand-box.....	C. H. Taylor.....	559,549	May 5	345	83	75	750
Car sand-box. Street.....	T. L. Monaghan.....	555,787	Mar. 3	492	119	74	1219
Car sand-box. Street.....	F. C. Murray.....	552,922	Jan. 14	814	198	74	166
Car sand-depositing apparatus.....	J. Oldfield.....	571,136	Nov. 10	1298	302	77	907
Car sanding-box.....	G. D. Hiscox.....	558,688	Apr. 21	2072	501	75	423
Car-seat.....	J. Applin.....	561,153	June 2	140	37	75	1393
Car-seat.....	F. A. Baier.....	565,375	Aug. 4	766	182 183	76	759
Car-seat.....	F. A. Baier.....	565,376	Aug. 4	768	183	76	760
Car-seat.....	F. W. Blair.....	553,386	Jan. 21	1625	387	74	332
Car-seat.....	M. N. Forney.....	566,675	Aug. 25	3082	752 753	76	1251
Car-seat.....	H. S. Hale.....	572,654	Dec. 8	993	239	77	1487

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Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Car-seat	H. S. Hale	572,655	Dec. 8	994	239	77	1487
Car-seat	F. H. Henry	556,821	Mar. 24	2401	564	74	1627
Car-seat	F. H. Henry	562,606	June 23	2704	654	75	1939
Car-seat construction	J. A. Brill	566,131	Aug. 18	2153	525	76	1058
Car-seat construction	J. A. Brill	566,132	Aug. 18	2157	526	76	1059
Car. Self-loading track-cleaning	A. J. Reynolds	562,489	June 23	2485	603	75	1898
Car-shade adjuster	E. W. Smith	564,903	July 28	2891	693	76	580
Car sides and ends. Lateral support for	W. A. Thomas	570,148	Oct. 27	2515	596	77	515
Car-sign	J. J. Dolan	559,516	May 5	225	67	75	737
Car sign. Illuminated and changeable street	C. R. Klettner	571,726	Nov. 17	2280	547	77	1105
Car sign. Rotatable street	J. D. Browne	571,942	Nov. 24	2693	637	77	1202
Car sign. Street	E. L. Dwyer	570,747	Nov. 3	607	139	77	450
Car-signal	T. A. Brown	562,945	June 30	3332	801	75	2080
Car-signal	E. Nelson	555,391	Feb. 25	2324	664	74	1081
Car-signal	H. Phinney	571,855	Nov. 24	2588	614	77	1181
Car-signal	J. W. Shafer	570,510	Nov. 3	133	33	77	663
Car-signal. Automatic	H. W. Troy	574,182	Dec. 29	3809	909	77	2061
Car signaling device	C. H. Dressel	570,156	Oct. 27	2527	599	77	517
Car signaling-light	M. P. Crawford	567,941	Sept. 15	2091	503	76	1700
Car. Sleeping	E. E. Castle	555,221	Feb. 25	2633	617	74	1044
					79		
					80		
					81		
Car. Sleeping	L. F. Ruth	559,541	May 5	330	75	746	
Car-standard	W. J. Holmes	554,693	Feb. 18	1581	372	74	832
Car-step	J. A. Miller	558,194	Apr. 14	1213	296	75	246
Car-step. Adjustable	J. Aichner	537,632	Apr. 7	187	48	75	36
Car-step and platform-guard. Combined	D. R. Wing	564,675	July 28	2510	594	76	511
Car. Stock	E. J. Bell and G. F. Morgan	556,800	Mar. 24	2365	557	74	1621
Car. Stock	R. C. Burke and R. P. Wissler	565,835	Aug. 11	1616	396	76	936
Car. Stock	W. Cline	564,303	July 21	1873	440	76	376
					441		
Car. Stock	G. Grossman	560,790	May 26	2669	614	75	1258
Car-stopper for drawbridges. Automatic	P. C. Floeter	572,252	Dec. 1	278	67	77	1332
Car-storage arrangement	E. F. Mann	567,487	Sept. 8	1329	321	76	1540
Car. Street	W. Sutton	556,287	Mar. 10	1470	342	74	1421
Car. Street	W. Sutton	556,288	Mar. 10	1472	342	74	1422
Car. Street-railway	C. W. Teller	567,798	Sept. 15	1848	443	76	1653
					444		
Car-switch	C. W., J., and A. Mettler	557,592	Apr. 7	113	29	75	23
Car-switch. Automatic	C. Stadtfeld	567,175	Sept. 8	784	185	76	1442
Car-switching system. Automatic	P. Lelardoux	556,855	Mar. 24	2446	575	74	1637
					576		
Car track-sanding device	J. T. Porter	563,237	June 30	3837	920	75	2175
Car-track switch. Street	C. R. Osborne	564,837	July 28	2787	663	76	560
Car. Tramway	H. M. Boies	564,551	July 21	2285	536	76	451
					537		
Car. Tramway	H. M. Boies	564,552	July 21	2288	537	76	451
					538		
Car. Tramway	L. Wieland	560,385	May 19	1915	436	75	1104
Car truss-brace. Railway	E. Peckham	560,816	May 26	2704	621	75	1266
Car under frame	B. Bagshawe	554,641	Feb. 18	1496	350	74	815
					351		
Car-unloading apparatus	T. Long	553,122	Jan. 14	1139	282	74	232
					281		
Car-unloading apparatus	T. Long	560,727	May 26	2554	587	75	1237
					588		
Car-unloading apparatus	T. Long	568,860	Oct. 6	251	59	77	49
Car-unloading apparatus. Railway	J. McBride, T. Naulty, and S. L. Wiegand	563,939	July 14	1234	288	76	245
					289		
Car. Ventilated	W. Cline	555,928	Mar. 10	758	183	74	1291
Car-ventilating mechanism	W. J. Tully	570,353	Oct. 27	2924	695	77	591
Car-ventilating window	F. D. Glover and A. H. Smith	572,979	Dec. 15	1573	377	77	1616
Car-ventilator	J. McGarry	561,945	June 9	1572	381	75	1692
Car. Ventilator	L. Weinberger	558,330	Apr. 14	1442	355	75	290
Car ventilator and dust-arrester. Railway	S. H. Gehlman	567,972	Sept. 22	2150	517	76	1724
Car ventilator. Railway	J. I. Dunlap	572,877	Dec. 8	1374	333	77	1560
Car. Vestibule	J. W. Cooper	566,712	Aug. 25	3151	770	76	1261
					771		
					772		
					773		
Car. Vestibule railway	L. B. Smyser	556,031	Mar. 10	956	229	74	1327
					230		
					231		
Car-wheel	J. A. Miller	572,556	Dec. 8	815	195	77	1449
Car-wheel	T. P. Murphy	554,526	Feb. 11	1285	301	74	759
Car-wheel	T. P. Murphy	564,214	July 21	1727	404	76	351
Car-wheel	J. B. West	570,525	Nov. 3	159	38	77	667
Car wheel and track	C. W. Flint	556,624	Mar. 17	2066	484	74	1548
Car-wheel brake-shoe and dresser	J. E. Worswick. (Reissue)	11,527	Mar. 31	3658	876	74	1885
Car-wheel-forging machine	J. A. Facer	564,603	July 28	2398	565	76	490
Car-wheel-grinding mechanism	H. A. Pedrick	573,694	Dec. 22	2898	685	77	1882
					145		
Car wheel-guard. Street	J. W. Darley, Jr.	555,852	Mar. 3	608	146	74	1242
Car-wheel holder. Portable	D. L. McMicken	556,764	Mar. 24	2307	542	74	1610
Car-wheel. Lubricating	E. Ewers	568,528	Sept. 29	3166	762	76	1926
Car wheel. Railway	J. J. A. Miller	573,519	Dec. 22	2565	609	77	1817
Car-wheel shifter	E. E. Taylor	558,532	Apr. 21	1802	438	75	374
Car-wheels in place. Apparatus for grinding	N. Casey	566,891	Sept. 1	262	61	76	1332
Car-wheels. Machine for forging	J. A. Facer	553,156	Jan. 14	1213	295	74	243
Car-wheels. Manufacture of flanged tires for	H. A. Harvey	560,160	May 12	1491	337	75	978
Car-wheels, &c., with non-resonant material. Method of and composition for filling hollow noiseless	T. P. Murphy	564,215	July 21	1729	404	76	351
Car-window	F. W. Wilson	555,750	Mar. 3	448	107	74	1210
Car-window dust-deflector	C. D. Shepherd	560,236	May 19	1647	375	75	1057

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Car-window. Ventilating	A. Heilprin	558,387	Apr. 14	1545	377	75	308
Car-window ventilator	C. Whitlow	554,160	Feb. 4	662	149	74	626
Car-windows. Portable dust-deflector for	C. H. Adams	562,111	June 16	1867	453	75	1765
Cars and locomotives. Construction and connection of railway	E. Langen	553,756	Jan. 28	2265	537	74	467
Cars. Automatic door-release for dump-	W. W. Stonely, C. E. Crosby, and I. L. Crippen	564,805	July 28	2739	651	76	551
Cars. Automatic electromagnetic brake for railway	E. A. Hauerwas	569,101	Oct. 6	660	{ 152 } 153	77	126
Cars. Automatic life-guard for	C. M. Beebe	555,753	Mar. 3	452	{ 107 } 108	74	1211
Cars. Automatic sanding apparatus for railway	W. T. Hamilton	567,856	Sept. 15	1955	{ 468 } 469	76	1675
Cars. Automatic speed-controller for electric	H. A. Seymour	562,925	June 30	3275	791	75	2066
Cars. Bell-cord support for street-	P. G. Emery	554,218	Feb. 4	749	171	74	643
Cars, &c. Bolster for	J. W. Cloud	559,365	May 5	27	7	75	686
Cars. Combined automatic safety-brake and wheel-guard for street-	R. P. Williams	554,762	Feb. 18	1703	400	74	855
Cars. Combined fender, brake mechanism, and trolley-arm-operating device for	W. Walter	563,338	July 7	188	42	76	38
Cars, &c. Combined seat and berth for railway	S. Udstad	567,819	Sept. 15	1893	453	76	1662
Cars. Device for preventing motion on	A. E. Flatlick	555,238	Feb. 25	2552	600	74	1029
Cars. Device for uniting	A. G. Leonard	565,547	Aug. 11	1100	266	76	840
Cars, &c. Draft device for	J. H. Turbush	553,438	Jan. 21	1709	408	74	348
Cars. Drop-step attachment for railway passenger-	R. P. Thomas	570,350	Oct. 27	2916	692	77	589
Cars. Electric motor for street-	H. M. Neer	555,392	Feb. 25	2825	{ 664 } 665	74	1081
Cars. Electric propulsion of	A. H. Brintnell	557,960	Apr. 7	775	185	75	146
Cars. Electric propulsion system for	G. H. Melotte	555,783	Mar. 3	486	{ 117 } 118	74	1218
Cars. Electrical propulsion for street or other	J. Jackson	553,529	Jan. 28	1875	444	74	396
Cars. Extension-step for railway	W. Y. Carlton	568,601	Sept. 29	3303	792	76	1952
Cars. Flexible safety-guard for street-	E. E. Higginbotham	561,397	June 2	588	147	75	1483
Cars. Fluid-pressure brake mechanism for railway	L. J. Genett	563,158	June 30	3701	886	75	2150
Cars, &c. Heating apparatus for	E. E. Gold	569,637	Oct. 20	1611	380	77	335
Cars. Hoisting and unloading railway	P. Rasch	564,646	July 28	2469	{ 582 } 583	76	503
Cars. Illuminated sign for electrically-driven street-	R. H. Engle	555,440	Feb. 25	2927	{ 694 } 695	74	1099
Cars. Lighting	W. F. Hutchinson	554,697	Feb. 18	1585	373	74	834
Cars. Load-indicator for railway	C. Henrich	565,271	Aug. 4	608	144	76	727
Cars. Magnetic traction apparatus for motor-	W. Robinson	566,800	Sept. 1	107	26, 27	76	1300
Cars. Motor-hanger for electrically-propelled	E. Peckham	555,529	Mar. 3	74	16	74	1144
Cars. Movable arm-support for	G. H. Poor	567,655	Sept. 15	1616	389	76	1609
Cars. Operating mechanism for street-railway	S. Messier and D. J. Bordeaux	557,853	Apr. 7	586	{ 139 } 140	75	110
Cars. Platform construction for street or other	J. A. Brill	554,235	Feb. 11	785	180	74	664
Cars. Platform equipment and buffer and draft rig- ging for railway	H. H. Sessions	561,446	June 2	686	{ 169 } 170	75	1499
Cars. Power-gearing for electric	E. A. Sperry	560,375	May 19	1893	431	75	1100
Cars. Power-gearing for electric	E. A. Sperry	561,354	June 2	517	130	75	1469
Cars. Power-gearing for electric	E. A. Sperry	563,425	July 7	325	73	76	64
Cars. Pressed-steel end sill for	C. Hackney	554,678	Feb. 18	1561	368	74	828
Cars, &c. Reversing and cut-out switch used in elec- tric street-	G. Valley	561,839	June 9	1399	335	75	1658
Cars. Running-board guard for street-	E. W. Phinney and L. Trinder	573,914	Dec. 29	3280	785	77	1968
Cars, &c. Safety device for electric	A. H. Wheeler and J. Gilbert	556,949	Mar. 24	2609	613	74	1666
Cars. Sand-box for electric or other	C. H. Cox	556,712	Mar. 17	2192	512	74	1572
Cars. Side bar for open	J. R. Gathright	552,996	Jan. 14	938	227	74	190
Cars. Side guard for open	A. D. Dimick	569,786	Oct. 20	1891	449	77	384
Cars. Steam heating apparatus for railway	E. E. Gold	557,265	Mar. 31	3187	764	74	1795
Cars. Storm-front and lookout window for	J. Hartman	552,662	Jan. 7	281	76	74	55
Cars. Strainer for air-brakes of	T. B. Hunt	569,203	Oct. 13	832	196	77	175
Cars. Switch-operating device for street-railway	D. Rioux, N. C. Bushey, and N. L. Byron	572,313	Dec. 1	406	96	77	1356
Cars. Ticket-holder for railway	H. Cushman	562,120	June 16	1880	455	75	1768
Cars. Ticket-holder for railway	H. Cushman	562,121	June 16	1881	456	75	1768
Carbon. Arc-lamp	D. A. Shesler	570,825	Nov. 3	735		77	775
Carbon-book	J. F. Green	573,871	Dec. 29	3212	764	77	1954
Carbon. Electric-arc-lamp	J. Roubal	559,752	May 5	685		75	811
Carbon-holder	G. R. Lean	571,975	Nov. 24	2751	649	77	1213
Carbon-sheet holder for manifolding books or pads	C. S. Binner	572,241	Dec. 1	258	62	77	1327
Carbonating apparatus	J. Ormerod	552,543	Jan. 7	70	18, 19	74	16
Carbonating beer, ale, &c. Apparatus for	T. B. Booth	565,597	Aug. 11	1197	287	76	857
Carbonating device	J. W. Seavolt	573,712	Dec. 22	2932	693	77	1888
Carbonator	R. E. Convert	553,054	Jan. 14	1033	252	74	207
Carbonator	F. A. J. Kaiser	555,514	Mar. 3	51	11	74	1140
Carbureted hydrogen. Apparatus for producing	S. H. and H. Hawkins	560,582	May 19	2248	515	75	1163
Carbureter	D. Best	565,828	Aug. 11	1601	392	76	933
Carbureter	C. W. Ingraham	569,460	Oct. 13	1270	299	77	256
Carbureter	F. R. Parr and R. B. Avery	559,341	Apr. 28	3262	788	75	663
Carbureter	J. S. Porter	563,799	July 14	958	228	76	196
Carbureter	H. C. Schrader	566,413	Aug. 25	2649	647	76	1169
Carbureter	G. G. Schroeder	566,415	Aug. 25	2652	{ 647 } 648	76	1170
Carbureter	C. Sintz	556,069	Mar. 10	1042	248	74	1342
Carbureter	E. I. P. Staede	572,837	Dec. 8	1318	316	77	1549
Carbureting apparatus. Air-	J. F. Barker	560,388	May 19	1921	438	75	1105
Carbureting water-gas	T. L. Willson	553,443	Jan. 21	1715		74	349
Carbureting water-gas. Method of and apparatus for	R. Norris	563,300	July 7	110	26, 27	76	23
Carcasses of animals in halves. Machine for split- ting	W. A. Boyd	556,956	Mar. 24	2622	616	74	1669
Card. Account-	C. Elkin	570,249	Oct. 27	2697	{ 641 } 642	77	549
Card and holder. Display-	W. F. Jones	570,408	Oct. 27	3027	717	77	610

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Cardboard. Adjustable cutter for cutting.....	C. W. Hobbs	553,526	Jan. 28	1871	443	74	395
Cardboard-bending device.....	T. Remus	561,814	June 9	1349	322	75	1649
Cardboard cutter. Bevel-edge.....	D. T. McCall.....	570,180	Oct. 27	2572	611	77	526
Cardboard, &c. Machine for feeding.....	A. A. Cohen.....	560,839	May 26	2746	630 631 632	75	1274
Cardboard-scoring machine.....	C. W. Hobbs	569,200	Oct. 13	828	195	77	174
Card-box.....	W. E. Richards.....	556,279	Mar. 10	1450	339	74	1417
Card-case. Duplicate-whist.....	R. F. Foster.....	568,437	Sept. 29	2981	716	76	1893
Card-case with cards and memorandum attachment. Combination.....	C. L. Adams.....	569,000	Oct. 6	497	112	77	95
Card-clothing to bars of flats. Fastener for securing.	J. Deiss	564,052	July 14	1446	336	77	284
Card-cloths. Machine for securing stretching-bands to.....	J. Stäubli.....	571,985	Nov. 24	2765	653	77	1216
Card cutter. Bevel.....	P. J. Stuparich.....	572,320	Dec. 1	419	99	77	1359
Card-embossing machine.....	O. C. Hale	573,407	Dec. 15	2329	556	77	1756
Card-feeding machines. Automatic alarm for.....	J. F. Geb	555,692	Mar. 3	355	82	74	1193
Card holder. Coin-controlled playing.....	J. Conpal and L. E. Gray.....	573,810	Dec. 22	3085	733	77	1917
Card-holder. Folding.....	W. H. Dougherty.....	561,366	June 2	561	141	75	1478
Card. Information.....	H. P. Stamford.....	564,117	July 14	1559	366	76	307
Card. Playing.....	J. Omwake	563,235	June 30	3835	919	75	2175
Card pocket-case. Playing.....	W. F. Howard.....	559,135	Apr. 28	2884	695	75	593
Card-punching machine. Jacquard.....	H. Hardwick.....	559,763	Jan. 28	2303	546	74	475
Card-setting machine.....	N. C. Estes	553,303	Jan. 21	1457	357	74	306
Card-shooter.....	C. H. Judson.....	562,187	June 16	1994	482	75	1790
Card-shuffling apparatus.....	F. L. Becker.....	564,774	July 28	2688	638	76	543
Card. Stencil.....	F. D. Belknap.....	573,850	Dec. 29	3162	754	77	1947
Card. Trick.....	B. H. Saunders.....	557,895	Apr. 7	646	155	75	122
Cards, &c. Holder for.....	A. B. House and B. F. Ford.....	562,828	June 30	3103	751	75	2032
Cards indicating time of delivery. Apparatus for au- tomatically delivering.....	E. P. Dupuis.....	566,449	Aug. 25	2749	667	76	1186
Cards. Machine for punching and lacing Jacquard.....	V. Royle.....	556,774	Mar. 24	2324	547 548	74	1613
Cards. Machine for repeating pattern.....	V. Royle.....	556,775	Mar. 24	2327	548 549	74	1614
Cards. Playing.....	S. Kimble	567,646	Sept. 15	1599	384	76	1605
Cards. Playing.....	C. B. Rosenberger.....	563,619	July 7	645	150	76	121
Cards to cars, &c. Attaching.....	T. J. Duggan.....	558,365	Apr. 14	1499	368	75	301
Cards. Wire rod for jacquard.....	J. Cleary and T. M. Miller.....	573,813	Dec. 22	3090	734	77	1918
Carding-engine.....	A. A. Langewald.....	562,837	June 30	3119	755	75	2035
Carding-engine.....	J. T. Meats	555,324	Feb. 25	2715	636	74	1060
Carding-engine.....	E. and S. Tweedale and J. Smalley.....	560,604	May 19	2288	524 525	75	1171
Carding-engine appliance.....	A. Hitchon and W. E. Duckworth.....	568,197	Sept. 22	2576	620	76	1802
Carding-engine bend.....	E. and S. Tweedale and J. Smalley.....	564,125	July 14	1569	369	76	309
Carding-engine doffer-comb.....	R. W. Hilton.....	559,285	Apr. 28	3161	764	75	645
Carding-engine feeder.....	J. F. Geb	554,466	Feb. 11	1225	287	74	748
Carding-engine feeding apparatus.....	A. Borios	572,153	Dec. 1	106	25	77	1298
Carding-engine feeding mechanism.....	F. A. Flather.....	553,671	Jan. 28	2117	501 502	74	438
Carding-engine flats. Apparatus for controlling the grinding of.....	J. E. Prest	555,329	Feb. 25	2721	638	74	1062
Carding-engine rubber condenser.....	T. G. Beaumont.....	568,014	Sept. 22	2231	538 539	76	1738
Carding-engine screen.....	J. H. Whittle.....	566,362	Aug. 25	2557	625	76	1150
Carding-engine stripping mechanism.....	J. T. Meats	557,078	Mar. 24	2832	675	74	1711
Carding-engines. Means for fastening card-clothing to flats of revolving-flat.....	R. W. Hunton.....	564,691	July 28	2533	599	76	516
Carding-engines. Mechanism for grinding flats in.....	J. C. Potter.....	559,601	May 5	427	101 162	75	765
Carding-machine.....	J. P. Thompson.....	556,872	Mar. 24	2489	587	74	1645
Carding-machine feed mechanism.....	J. Hogg.....	562,610	June 23	2708	655 656	75	1399
Carding-machine stop mechanism.....	D. F. Bradbury and G. McDermott.....	559,160	Apr. 28	2930	708	75	602
Carding-machines. Sliver-dividing device for.....	A. Borios	561,960	June 16	1603	389	75	1718
Cargo-trimmer.....	A. H. Hawgood.....	564,150	July 14	1611	378	76	317
Carousel.....	G. A. Dentzel.....	573,577	Dec. 22	2666	632	77	1837
Carousel.....	S. E. Hughes.....	553,468	Jan. 21	1759	419 420	74	357
Carpenter's gage.....	R. Bates	569,739	Oct. 20	1803	432	77	369
Carpenter's gage.....	E. F. Culbertson.....	562,070	June 16	1806	436	75	1754
Carpenter's gage.....	L. Jocas	569,558	Oct. 13	1452	343	77	290
Carpenter's reel.....	G. E. Jahnsan.....	560,799	May 26	2681	616	75	1261
Carpet-beater.....	E. Kent and L. H. Clark.....	563,598	July 7	613	143	76	115
Carpet-cleaner.....	J. H. Pownall.....	557,878	Apr. 7	623	148	75	117
Carpet-cleaner.....	C. Scharrer	559,498	May 5	257	60	75	731
Carpet-cleaning machine.....	C. Scharrer	571,981	Nov. 24	2759	651	77	1214
Carpet fabric.....	T. B. Dorman.....	574,023	Dec. 29	3492	834	77	2005
Carpet-fastener.....	E. M. Childs.....	553,151	Jan. 14	1200	292	74	241
Carpet-fastener.....	J. J. Moore.....	568,264	Sept. 22	2690	644	76	1824
Carpet-fastener.....	H. F. Petram.....	554,724	Feb. 18	1628	384	74	842
Carpet fastener. Stair.....	C. E. Kent.....	556,270	Mar. 10	1409	331	74	1411
Carpet fastener. Stair.....	A. B. Koplin.....	557,586	Apr. 7	105	27	75	21
Carpet-holder.....	M. J. Kehoe.....	572,806	Dec. 8	1274	307	77	1539
Carpet-holder.....	M. H. Sullivan.....	569,525	Oct. 13	1390	328	77	278
Carpet-lining.....	J. H. Beale.....	557,757	Apr. 7	426	100	75	81
Carpet-lining.....	W. A. Mauran.....	562,635	June 23	2746	667	75	1946
Carpet-stretcher.....	P. W. Berridge.....	556,454	Mar. 17	1779	412	74	1495
Carpet-stretcher.....	W. G. Bertram.....	555,755	Mar. 3	454	108	74	1211
Carpet-stretcher.....	C. A. Chamberlain.....	555,362	Feb. 25	2778	651	74	1072
Carpet-stretcher.....	E. E. Hull, J. S. Forney, and J. A. Feist.....	573,149	Dec. 15	1872	451	77	1673
Carpet-stretcher.....	L. G. Mahle	572,018	Nov. 24	2815	664	77	1224
Carpet-stretcher.....	P. V. Monroe.....	569,650	Oct. 20	1633	356	77	340
Carpet-stretcher.....	W. H. Peebles.....	554,789	Feb. 18	1743	409	74	863

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Carpet-stretcher	W. T. Reaser	562,027	June 16	1713	417	75	1739
Carpet-stretcher	H. Sommerfeld	564,317	July 21	1901	449	76	381
Carpet-stretcher	B. R. Stogsdill	558,227	Apr. 14	1275	311	75	258
Carpet-stretcher	C. C. Thompson	574,122	Dec. 29	3676	876	77	2039
Carpet-stretcher and tack-holder. Combined	J. Detrick	570,463	Nov. 3	39	9	77	646
Carpet-sweeper	C. S. Chaffee, A. S. Hoffman, and F. A. Green.	553,101	Jan. 14	1126	274	74	225
Carpet-sweeper	F. C. Curry	563,710	July 7	799	191	76	150
Carpet-sweeper	L. A. Dolph	555,935	Mar. 10	771	186	74	1294
Carpet-sweeper	L. A. Dolph. (Reissue)	11,541	May 26	3154	729	75	1351
Carpet-sweeper	T. Friant and A. B. Linn	554,817	Feb. 18	1795	421	74	874
Carpet-sweeper	W. T. Hess	555,863	Mar. 3	630	151	74	1246
Carpet-sweeper	C. King	563,388	July 7	255	57	76	51
Carpet-sweeper	A. B. Linn	554,827	Feb. 18	1611	424	74	878
Carpet-sweeper	A. B. Linn	557,280	Mar. 31	3220	773	74	1801
Carpet-sweeper	A. D. and A. B. Linn	553,812	Jan. 28	2354	560	74	483
Carpet-sweeper	A. D. and A. B. Linn	554,826	Feb. 18	1809	424	74	877
Carpet-sweeper	A. D. and A. B. Linn	562,771	June 23	2975	720	75	1991
Carpet-sweeper	A. D. and A. B. Linn	571,451	Nov. 17	1808	432	77	1018
Carpet-sweeper	S. H. Raymond	555,052	Feb. 18	2232	533	74	952
Carpet-sweeper	S. H. Raymond	555,053	Feb. 18	2233	533	74	952
Carpet-sweeper	S. H. Raymond	564,647	July 28	2470	583	76	504
Carpet-sweeper	S. H. Raymond	564,648	July 28	2472	583	76	504
Carpet-sweeper	S. H. Raymond	567,508	Sept. 8	1361	328	76	1545
Carpet-sweeper	I. E. Stump	573,554	Dec. 22	2629	625	77	1829
Carpet-sweeper	G. A. Worz	571,549	Nov. 17	1990	473	77	1050
Carpets. Apparatus for producing raised figures in	R. Etherington	568,300	Sept. 22	2747	660	76	1836
Carriage	E. D. Brewer	565,833	Aug. 11	1613	394	76	936
Carriage	C. N. Dennett	557,195	Mar. 31	3064	734	74	1773
Carriage	W. F. Downey. (Reissue)	11,567	Sept. 8	1466	351	76	1564
Carriage	S. H. Gage	560,706	May 26	2519	578	75	1230
Carriage	J. N. Leitch	556,853	Mar. 24	2444	574	74	1637
Carriage	J. N. Leitch	562,136	June 16	1903	461	75	1772
Carriage	J. A. McLean	566,790	Sept. 1	92	23	76	1297
Carriage	J. A. McLean	566,791	Sept. 1	93	23	76	1298
Carriage and cradle. Combined	C. G. Falter	559,445	May 5	172	38	75	715
Carriage and sled. Combined child's	T. S. Minniss	572,059	Nov. 24	2894	663	77	1239
Carriage-apron	J. E. Wright and T. L. Curley	561,749	June 9	1236	292	75	1630
Carriage attachment for lamps	M. F. Brigham	571,317	Nov. 10	1592	378	77	964
Carriage. Baby	A. F. C. Garben	558,062	Apr. 14	1004	244	75	205
Carriage. Baby	J. A. Johnson	570,407	Oct. 27	3024	717	77	609
Carriage. Baby	C. Marx	572,658	Dec. 8	1000	241	77	1469
Carriage. Baby	D. Weinstock	567,669	Sept. 15	1633	394	76	1613
Carriage-boot attachment	G. T. Wilson	555,991	Mar. 10	882	210	74	1315
Carriage brake. Child's	A. G. Mackenzie and J. S. Hollingshead.	555,458	Feb. 25	2957	703	74	1106
Carriage canopy-top. Child's	W. H. Haynes	565,619	Aug. 11	1228	296	76	863
Carriage. Child's	G. S. Colburn	563,567	July 7	568	131	76	106
Carriage. Child's	M. M. Mastin	561,412	June 2	616	153	75	1487
Carriage. Child's	H. Noelte	565,631	Aug. 11	1253	302	76	868
Carriage. Child's	J. B. Stoner	561,066	May 26	3138	724	75	1348
Carriage. Child's	A. Woodward	564,678	July 28	2514	595	76	512
Carriage-cleaning apparatus	H. Nicholasburg	553,291	Jan. 21	1470	353	74	303
Carriage-curtain fastener	B. J. Aurand	558,707	Apr. 21	2099	507	75	428
Carriage-curtain fastener	T. H. C. Beall	572,671	Dec. 8	1020	247	77	1492
Carriage-curtain fastener	H. Higgin	567,138	Sept. 8	725	169	76	1431
Carriage. Folding	F. Heppner	571,228	Nov. 10	1439	336	77	934
Carriage. Folding baby	G. Mayer	554,072	Feb. 4	491	111	74	595
Carriage-gear	C. A. Behlen	573,384	Dec. 15	2294	548	77	1750
Carriage-gear	W. H. Emond	574,313	Dec. 29	4052	962	77	2107
Carriage-iron	F. S. Carr	553,668	Jan. 28	2114	501	74	437
Carriage-jack. Combination	C. E. Thompson	568,382	Sept. 29	2891	695	76	1878
Carriage-runner. Baby	J. Anderson	553,822	Feb. 4	2	1	74	505
Carriage-seat. Extensible	J. Murphy	567,491	Sept. 8	1334	322	76	1541
Carriage-seat fastener	C. Goings	565,345	Aug. 4	726	173	76	751
Carriage-seats. Cushion for back-frames of	J. E. Wright and T. L. Curley	561,748	June 9	1234	292	75	1630
Carriage shade-holder. Baby	O. C. White	566,361	Aug. 25	2555	624	76	1150
Carriage-top	D. Conboy	560,121	May 12	1428	321	75	966
Carriage-top connection	A. Krider	573,006	Dec. 15	1616	388	77	1624
Carriage-top connection	A. Krider	573,007	Dec. 15	1617	389	77	1625
Carriage-top lowering or raising device	H. Eckert	553,154	Jan. 14	1211	294	74	242
Carriage-window	E. R. Wethered	567,427	Sept. 8	1321	295	76	1521
Carriages. Shifting rail for top	G. H. Hersey	556,977	Mar. 24	2660	624	74	1677
Carrier							
See Cartridge-carrier.	Egg-carrier.						
Cash-carrier.	Elevated carrier.						
Cash and package carrier.	Hay-carrier.						
Cash and parcel carrier.	Luggage-carrier.						
Change-carrier.	Reel-carrier.						
Change-carrier.	Rope-carrier.						
Change-carrier.	Straw-carrier.						
Cart	T. Hill	570,400	Oct. 27	3015	714	77	608
Cart. Ash	H. Scheller	552,589	Jan. 7	148	40	74	29
Cart. Combination	H. H. Sieh	562,043	June 16	1747	422	75	1744
Cart. Delivery	W. S. Reynolds	562,914	June 30	3255	786	75	2062
Cart. Dumping	J. P. Young	552,949	Jan. 14	864	209	74	176
Cart. Snow and dirt	J. R. Hawkins	552,876	Jan. 7	716	174	74	134
Cart. Spreading	R. Stone	559,150	Apr. 28	2915	704	75	598
Carts. Draft-frame for two-wheeled	F. O. Clapp and J. C. Bailey	562,355	June 16	2274	552	75	1841

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page
Cartridge	M. Herrington	566,315	Aug. 25	2459	602	76	1132
Cartridge. Accelerating	H. P. Hurst	562,535	June 23	2557	622	75	1911
Cartridge-belt	D. Lane	560,618	May 19	2311	529	75	1174
Cartridge-carrier	L. R. Ferguson	558,057	Apr. 14	994	242	75	204
Cartridge-carrier	R. F. Walker	568,220	Sept. 22	2618	629	76	1811
Cartridge-case reducing-die	W. Mason	570,760	Nov. 3	629	145	77	753
Cartridge-crimper. Paper	J. H. Barlow	566,126	Aug. 18	2147	523	76	1057
Cartridge-holder. Temporary	T. C. Johnson	571,973	Nov. 24	2743	648	77	1211
Cartridge-holding clip. Temporary	T. C. Johnson	572,361	Dec. 1	487	114	77	1371
Cartridge implement. Reloading	C. F. Fellows	556,461	Mar. 17	1792	415 416	74	1497
Cartridge-loading device	S. S. Saffold	561,439	June 2	676	165 166	75	1497
Cartridge-loading implement	C. F. Fellows	555,237	Feb. 25	2549	600	74	1029
Cartridge-loading machine	P. Kammerer	553,245	Jan. 21	1371	334 335 336	74	286
Cartridge-loading machine	L. G. Ohman	566,217	Aug. 18	2295	561 562	76	1086
Cartridge-loading machine	G. M. Peters	555,734	Mar. 3	421	97 98 99	74	1205
Cartridge-loading machine	G. M. Peters	561,029	May 26	3077	709	75	1336
Cartridge-packet	G. Luger	567,147	Sept. 8	739	173	76	1434
Cartridge-packet	H. Pieper	567,358	Sept. 8	1122	270	76	1501
Cartridge. Paper-shell	J. Gardner	563,157	June 30	3700	885	75	2150
Cartridge-primer	N. G. Whitmore	567,114	Sept. 1	674	157	76	1410
Cartridge-shell crimper	J. H. Barlow	553,024	Jan. 14	978	236	74	197
Cartridge. Shot	E. P. Follett	553,062	Jan. 14	1044	254	74	210
Cartridge. Thermo-explosive	C. H. Rudd	556,901	Mar. 24	2537	598	74	1653
Carvacrol iodid	L. C. Urban	561,531	June 2	845	75	1529	
Carver and steel. Combined	M. Sammis	568,878	Oct. 6	283	65	77	54
Carving-machine	A. A. Hausske	561,510	June 2	792	193 194	75	1520
Carving-machine	G. W. Hodges	558,951	Apr. 28	2525	612	75	525
Carving-machine	O. Jahnson and G. Meinhardt	571,566	Nov. 17	2015	479	77	1054
Carving-machine	F. Snow	558,223	Apr. 14	1268	309 310	75	256
Carving-machine. Automatic	G. Emmett and W. E. Jaques	554,917	Feb. 18	1971	465 466	74	906
Carving machine. Wood	E. Lochman	571,535	Nov. 17	1963	467 468	77	1045
Carving, routing, and mortising machine	T. D. Cook	554,333	Feb. 11	950	469 222	74	697
Case:							
See Barber's case. Pen and pencil case.							
Bookcase. Pencil-case.							
Bottle-case. Photographic case.							
Bottle packing-case. Physician's portable case.							
Brush-case. Piano-case.							
Burial-case. Printer's case.							
Card-case. Refrigerator shipping-case.							
Card pocket-case. Revolving case.							
Caster-case. Sample-case.							
Cigar-case. Sectional case.							
Clock-case. Sewing-machine bobbin-case.							
Display case. Shipping-case.							
Dress-case. Shipping and storing case.							
Egg-case. Show-case.							
Extension-case. Spectacle-case.							
Eyeglass-case. Spectacle or eyeglass case.							
File-case. Stamp or coin case.							
Fly-case. Surgical-instrument case.							
Glove-case. Ticket-case.							
Mailing-case. Toilet-case.							
Medicine-case. Traveling-case.							
Music-case.							
Packing-case.							
Packing and show case.							
Case	E. J. Fletcher	563,581	July 7	586	137	76	110
Case construction	W. H. Watson	573,942	Dec. 29	3331	795 796	77	1976
Case for containing sugar, &c.	W. Wale	555,134	Feb. 25	2378	564	74	997
Case for holding and displaying samples of cards	C. H. Pedrick	555,615	Mar. 3	220	51	74	1170
Case for toilet articles	J. Dickson	566,505	Aug. 25	2836	690	76	1203
Case or box for silverware, &c.	E. J. Fletcher	561,384	June 2	569	142	75	1479
Case or satchel	W. Roemer	562,555	June 23	2599	631	75	1917
Cash and package carrier	S. W. Barr and H. M. Weaver	570,422	Oct. 27	3055	723 724	77	615
Cash and package carrier	H. M. Weaver and S. W. Barr	553,548	Jan. 28	1908	452	74	401
Cash and package carrier catch	H. M. Weaver	567,180	Sept. 8	789	186	76	1443
Cash and parcel carrier	L. G. Bostedo	559,095	Apr. 28	2775	672 673	75	573
Cash and parcel carrier	H. A. Wheat	560,955	May 26	2968	681	75	1316
Cash and parcel carrier	A. White	557,629	Apr. 7	176	45, 46	75	34
Cash-carrier	D. E. Chism	572,407	Dec. 1	579	138	77	1388
Cash-carrier	E. C. Gipe and C. F. Hildreth	559,700	May 5	588	139 140	75	794
Cash-carrier apparatus	J. T. Cowley	568,716	Sept. 29	3504	838 839 840	76	1992
Cash-carrier car	J. W. Clark	560,344	May 19	1837	418	75	1089
Cash-carrier. Pneumatic	F. J. H. Hazard	566,575	Aug. 25	2935	717	76	1222

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Cash-check holder and cutter	A. D. Joslin	553,620	Jan. 28	2031	481	74	424
Cash indicating and registering apparatus	G. L. Barnes	568,728	Oct. 6	7	2,3	77	4
Cash indicator and recorder	T. H. Lovejoy	560,066	May 12	1328	297	75	946
					298		
Cash indicator, register, and check-printer	J. Jacques	555,043	Feb. 18	2208	526	74	948
					527		
Cash-recorder	D. J. Wilson	567,431	Sept. 8	1236	528	76	1522
					297		
Cash recorder and refunding machine	W. A. Elmore	562,812	June 30	3061	298	75	2024
					740		
Cash-register	L. S. Burridge and N. R. Marshman	574,302	Dec. 29	4032	741	77	2103
					957		
Cash-register	F. Clifton	563,843	July 14	1048	955	76	211
					247		
Cash-register	L. Cooney, Jr.	555,302	Feb. 25	2073	248	74	1053
					626		
Cash-register	L. Cooney, Jr.	565,962	Aug. 18	1859	627	76	1001
					452		
Cash-register	L. Cooney, Jr.	565,963	Aug. 18	1867	453	76	1003
					454		
Cash-register	L. Cooney, Jr.	565,964	Aug. 18	1875	455	76	1005
					456		
Cash-register	C. H. Decker	555,047	Mar. 10	999	457	74	1335
					238		
Cash-register	C. F. Hamilton	557,124	Mar. 31	2915	239	74	1750
Cash-register	C. H. Little	571,728	Nov. 17	2284	697	77	1105
Cash-register	J. E. Mellor	561,680	June 9	1101	548	75	1602
					264		
Cash-register	W. Murphy	571,953	Nov. 24	2713	641	77	1206
					642		
Cash-register	H. Pottin	573,699	Dec. 22	2905	686	77	1883
					687		
Cash-register	J. W. Rehill	570,818	Nov. 3	723	688	77	772
					165		
Cash-register	J. Sharpe and J. A. Banfield	571,098	Nov. 10	1223	166	77	894
					286		
Cash-register	M. H. Smith	566,481	Aug. 25	2802	287	76	1197
					682		
Cash-register	E. F. Spaulding	573,046	Dec. 15	1678	403	77	1637
					404		
Cash-register	P. Yoe	555,276	Feb. 25	2622	615	74	1043
					136		
Cash register and indicator	G. L. Barnes	567,066	Sept. 1	580	137	76	1392
					573		
Cash register and indicator	G. L. Barnes	568,081	Sept. 22	2370	574	76	1763
					575		
Cash register and indicator	G. L. Barnes	573,435	Dec. 22	2415	576	77	1789
					577		
Cash register and indicator	W. Bassett	570,114	Oct. 27	2454	583	77	504
Cash register and indicator	J. P. Cleal	555,282	Feb. 25	2634	618	74	1045
Cash register and indicator	J. P. Cleal	564,738	July 23	2620	628	76	531
Cash register and indicator	W. H. Cleasby	571,720	Nov. 17	2271	545	77	1102
Cash register and indicator	J. Jacques and C. S. Trask	568,764	Oct. 6	91	21, 22	77	20
Cash register and indicator	L. F. Jordan	568,257	Sept. 22	2678	642	76	1821
					895		
Cash register and indicator	J. A. Keyes	563,182	June 30	3739	896	75	2157
					538		
Cash register and indicator	J. J. Lawrence, Jr.	556,756	Mar. 24	2290	539	74	1608
					592		
Cash register and indicator	J. H. McCormick	570,141	Oct. 27	2498	593	77	511
					668		
Cash register and indicator	J. Pfeifer	560,924	May 26	2913	669	75	1305
					670		
Cash register and indicator	A. Smithson	555,407	Feb. 25	2851	672	74	1086
Cash register and indicator	E. T. Taylor	566,878	Sept. 1	1237	55	76	1328
Cash register and indicator	C. H. Van Deusen	561,741	June 9	1218	289	75	1626
					395		
Cash register and recorder	J. F. Scheuer	569,674	Oct. 20	1671	396	77	347
					397		
Cash-register indicating mechanism	A. White	558,887	Apr. 21	2407	586	75	486
					587		
Cash register, indicator, and check-printer	L. Ehrlich	560,089	May 12	1366	307	75	954
					308		
Cash register, indicator, and recorder	W. H. Clark	556,045	Mar. 10	985	309	74	1332
					236		
Cash register, indicator, and recorder	J. F. Goodridge	557,577	Apr. 7	88	237	75	18
					22		
Cash register, indicator, and recorder	J. A. Treat	561,837	June 9	1391	23	75	1657
					333		
Cash register, indicator, recorder, and check-printer	T. Carney	562,707	June 23	2860	334	75	1968
					695		
Cash register, indicator, recorder, and check-printer	R. H. Thompson and E. W. Morton	552,554	Jan. 7	85	696	74	19
					697		
Cash-register. Pocket	F. S. Grant	568,565	Sept. 29	3218	23	76	1936
Cash-registers. Transferring and resetting mechanism for	F. Barnard	570,196	Oct. 27	2598	24	77	531
					775		
Cash-registers. Transferring and resetting mechanism for	A. W. Marr	570,178	Oct. 27	2564	610	77	525
					611		
Cash registering and indicating machine	D. T. Methven	557,517	Mar. 31	3634	871	74	1881

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Casing-spear.....	J. Carruthers.....	557,968	Apr. 7	790	189	75	149
Cask heating and pitching appliance.....	J. Klein.....	566,192	Aug. 18	2255	551	76	1077
Cask-pitching apparatus.....	J. F. Theurer and O. Mueller.....	554,899	Feb. 18	1942	456 457	74	900
Cask-pitching apparatus.....	J. F. Theurer and O. Mueller.....	574,181	Dec. 29	3805	908 909	77	2060
Casket.....	J. H. Walker.....	570,356	Oct. 27	2927	686	77	591
Casket attachment.....	M. Altmeier.....	573,124	Dec. 15	1820	439	77	1664
Casket-handle.....	E. R. Sargent.....	556,556	Mar. 17	1959	457	74	1525
Cast-metal article.....	J. C. Reed.....	570,769	Nov. 3	643	147	77	756
Caster.....	G. B. M. Blue.....	574,017	Dec. 29	3480	831	77	2003
Caster.....	F. F. J. Brock.....	558,720	Apr. 21	2121	511	75	432
Caster.....	L. B. Denton.....	553,025	Jan. 14	979	237	74	197
Caster.....	L. B. Denton.....	553,026	Jan. 14	980	237	74	197
Caster.....	L. B. Denton.....	555,683	Mar. 3	342	78	74	1191
Caster.....	H. L. Gamble.....	568,023	Sept. 22	2262	547	76	1744
Caster.....	C. Graessle.....	568,025	Sept. 22	2264	548	76	1744
Caster.....	G. T. Hetzel.....	556,978	Mar. 24	2661	624	74	1677
Caster.....	W. H. Johnson and A. H. Adcock.....	559,334	Apr. 28	3252	785	75	662
Caster.....	G. E. Neuberth and H. Ill.....	556,020	Mar. 10	937	223	74	1324
Caster.....	W. H. Tucker.....	552,598	Jan. 7	164	45	74	32
Caster. Ball.....	W. S. Bowie.....	556,329	Mar. 17	1545	360	74	1450
Caster. Ball.....	G. J. S. Collins.....	559,514	May 5	280	66	75	736
Caster. Ball.....	E. Fackner.....	568,241	Sept. 22	2656	636	76	1817
Caster. Ball.....	W. H. Lockerby.....	555,175	Feb. 25	2443	579	74	1010
Caster. Ball.....	A. H. Marden.....	555,578	Mar. 3	159	38	74	1159
Caster. Ball.....	R. Mason and F. Ely.....	570,603	Nov. 3	315	77	77	697
Caster-case.....	L. B. Denton.....	569,959	Oct. 20	2184	518	77	438
Caster. Furniture.....	E. D. Schmidt.....	569,842	Oct. 20	1978	470	77	401
Caster. Furniture.....	M. Lachman.....	571,167	Nov. 10	1342	313	77	916
Caster. Trunk.....	M. Isidor.....	568,535	Sept. 29	3175	764	76	1928
Caster-wheel.....	J. A. Kennedy-McGregor.....	557,597	Apr. 7	123	32	75	24
Casting apparatus.....	J. Gavley and P. D. Mackey.....	553,458	Jan. 21	1732	413 414	74	352
Casting apparatus. Ingot.....	J. A. Potter.....	565,296	Aug. 4	641	153	76	734
Casting brake-shoes.....	A. Brake.....	553,098	Jan. 14	1119	271 272	74	224
Casting hollow articles. Mold for.....	H. Messing.....	570,324	Oct. 27	2878	684	77	582
Casting ingots. Apparatus for.....	J. O. E. Trotz.....	560,661	May 26	2444	559 560	75	1215
Casting ingots. Mold for.....	G. Brooke.....	568,511	Sept. 29	3111	750	76	1917
Casting knitting-machine cylinders. Mold for.....	A. J. Gulich.....	560,711	May 26	2527	580	75	1232
Casting machine. Ball.....	P. C. McGrath.....	563,206	June 30	3791	909	75	2167
Casting metal skeleton frames. Mold for.....	L. J. Creelius.....	557,190	Mar. 31	3042	728 729	74	1771
Casting metallic beds. Mold used in.....	P. H. Mellon.....	559,735	May 5	641	154	75	804
Casting mold. Metal.....	W. H. Snethers.....	554,380	Feb. 11	1034	240	74	712
Casting. Production of molding and core sand for.....	K. Prinzler.....	553,688	Jan. 28	2147	.....	74	444
Casting tubular ingots or metal tubes. Apparatus for.....	W. Heckert.....	569,641	Oct. 20	1619	381	77	337
Castings. Machine for cleaning.....	H. Beeg.....	554,473	Feb. 11	1205	280	74	744
Castings. Making steel ingots or other.....	W. Hainsworth.....	558,384	Apr. 14	1537	376	75	307
Castings. Molder's sand for steel.....	A. Tanner.....	566,486	Aug. 25	2810	.....	76	1198
Castings. Process of and apparatus for manufacturing steel.....	F. W. Hawkins.....	558,947	Apr. 28	2520	611	75	524
Castings. Toughening manganese-steel.....	R. A. Hadfield.....	572,891	Dec. 8	1392	.....	77	1564
Castrating instrument.....	A. A. Fredrickson and J. Murray.....	560,127	May 12	1438	324	75	968
Castrating instrument.....	J. Sparenburg.....	558,668	Apr. 21	2036	490	75	416
Castrating instrument.....	P. J. Weder.....	560,383	May 19	1911	435	75	1103
Catalogue for libraries, &c. Card.....	E. R. Soder.....	572,132	Dec. 1	71	16	77	1292
Catamenial sack.....	M. E. Ballard.....	570,216	Oct. 27	2636	624	77	538
Catapult.....	E. L. Chesebro.....	565,259	Aug. 4	595	140	76	724
Catch.....	T. F. Bourne.....	553,832	Feb. 4	21	6	74	508
Cattle-guard.....	W. C. Halley.....	571,616	Nov. 17	2098	503	77	1069
Cattle-guard.....	F. G. Susemihl.....	567,844	Sept. 15	1937	464	76	1671
Cattle-guard.....	H. N. Whitcomb.....	564,809	July 28	2748	653	76	553
Cattle-guard.....	J. W. Winget.....	563,634	July 7	669	158 157	76	126
Cattle-guard. Automatic.....	S. L. Spencer.....	571,142	Nov. 10	1307	304	77	909
Cattle-guard machine.....	J. McNaughton and S. G. Smith.....	568,453	Sept. 29	3006	723	76	1898
Cattle-guard. Surface.....	B. Wolhaupter.....	553,882	Feb. 4	132	26	74	530
Ceiling.....	W. Hurd.....	555,097	Feb. 25	2314	550	74	984
Ceiling and floor construction.....	J. Eastman.....	554,266	Apr. 14	1341	322	75	271
Ceiling and floor plate.....	A. Jarecki.....	571,766	Nov. 24	2376	567	77	1141
Ceiling-plate.....	J. Scrimgeour, Jr.....	570,775	Nov. 3	653	149	77	758
Cell.....	J. Mercer.....	564,311	July 21	1890	446	76	380
Cell-case machine.....	A. J. Bates.....	570,621	Nov. 3	365	87 88 89 90	77	705
Cell-cases. Machinery for manufacturing.....	W. E. Williams.....	573,947	Dec. 29	3338	797 798 799 800 801 802	77	1978
Cellulose from resin. Apparatus for freeing sulfite.....	L. Engelmayer.....	567,823	Sept. 15	1900	455	76	1664
Cement.....	H. Mizuhara.....	559,738	May 5	645	.....	75	805
Cement flags or artificial stone. Apparatus for making.....	E. Smallwood.....	555,345	Feb. 25	2746	643	74	1066
Cement. Hydraulic.....	G. W. A. Stein.....	562,982	June 30	3393	.....	75	2092
Cement. Method of and apparatus for calcining.....	C. Bonneville.....	568,599	Sept. 29	3301	791	76	1952
Cement. Slag.....	S. Jorgensen.....	569,833	Oct. 20	1964	.....	77	398
Cement stone. Apparatus for treating hydraulic.....	J. F. de Navarro.....	560,742	May 26	2575	593	75	1241

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Center-bit.	T. F. Hagerty	567,977	Sept. 22	2162	520	76	1726
Centerboard for yachts and other vessels	F. R. Kruse	555,250	Feb. 25	2375	604	74	1034
Centering device	L. Thomas	571,584	Nov. 17	2044	487	77	1060
Centering-machine	L. E. Whiton	571,817	Nov. 24	2459	585	77	1158
Centrifugal apparatus	G. M. Andersson	555,893	Mar. 3	696	168	74	1259
Centrifugal apparatus	E. G. N. Salenius	573,707	Dec. 22	2924	691	77	1886
Centrifugal extractor	T. C. Gooch	574,060	Dec. 29	3559	849 850	77	2018
Centrifugal machine	W. P. Abell	571,912	Nov. 24	2645	626	77	1191
Centrifugal machine	G. M. Andersson	555,552	Mar. 3	120	27	74	1152
Centrifugal machine	A. Heberer	559,059	Apr. 28	2708	659	75	559
Centrifugal machine	J. L. Jönsson	567,273	Sept. 8	952	226 227	76	1471
Centrifugal machine	P. L. Kimball	553,491	Jan. 21	1803	428	74	365
Centrifugal machine	P. L. Kimball	565,278	Aug. 4	620	147	76	730
Centrifugal machine	J. G. Klenk	573,090	Dec. 15	1768	424 425	77	1654
Centrifugal machine	F. F. Metzger	571,783	Nov. 24	2401	573	77	1147
Centrifugal machine	F. F. Metzger	572,121	Dec. 1	46	12	77	1287
Centrifugal machine	O. Ohlsson	573,910	Dec. 29	3271	781	77	1966
Centrifugal machine	N. G. Williams	565,196	Aug. 4	462	110	76	702
Centrifugal machines. Driving mechanism for hand-power	F. Hagershoff	556,888	Mar. 24	2511	592	74	1649
Centrifugal separation	W. H. Peck	561,640	May 26	2399	549 550	75	1188
Centrifugal separator	W. C. Hartmann	560,050	May 19	3113	717 718	75	1344
Centrifugal separator	P. L. Kimball	565,281	Aug. 4	623	148	76	730
Centrifugal separator	P. L. Kimball	566,457	Aug. 25	2765	672	76	1189
Centrifugal separator	P. L. Kimball	566,458	Aug. 25	2766	672 673	76	1190
Centrifugal separator	F. X. Nadon	566,466	Aug. 25	2779	675 676	76	1192
Centrifugal separator	O. B. Peck	560,620	May 19	2316	530	75	1175
Centrifugal separator	O. B. Peck	560,621	May 19	2322	531 532	75	1176
Centrifugal separator	O. B. Peck	560,622	May 19	2329	532 533	75	1177
Centrifugal separator	O. B. Peck	560,623	May 19	2334	533 534	75	1178
Centrifugal separator	O. B. Peck	560,624	May 19	2342	534 535	75	1180
Centrifugal separator	O. B. Peck	560,625	May 19	2348	536	75	1180
Centrifugal separator	O. B. Peck	560,626	May 19	2352	536 537	75	1181
Centrifugal separator	O. B. Peck	560,627	May 19	2355	537 538	75	1182
Centrifugal separator	O. B. Peck	560,628	May 19	2358	538	75	1182
Centrifugal separator	O. B. Peck	560,629	May 19	2361	539	75	1183
Centrifugal separator	O. B. Peck	560,630	May 19	2363	539 540	75	1183
Centrifugal separator	O. B. Peck	560,631	May 19	2367	540 541	75	1184
Centrifugal separator	O. B. Peck	560,632	May 19	2370	541 542	75	1184
Centrifugal separator	O. B. Peck	560,633	May 19	2376	542 543	75	1185
Centrifugal separator	O. B. Peck	560,634	May 19	2380	543 544	75	1185
Centrifugal separator	O. B. Peck	560,635	May 19	2388	544 545	75	1186
Centrifugal separator	O. B. Peck	560,636	May 19	2391	545 546	75	1187
Centrifugal separator	O. B. Peck	560,637	May 19	2393	546 547	75	1187
Centrifugal separator	P. M. Sharples	570,737	Nov. 3	592	136	77	747
Centrifugal separator	W. E. Simonds	566,807	Sept. 1	117	29	76	1303
Centrifugal separator	N. G. Williams	565,197	Aug. 4	463	110 111	76	702
Cereal-washing machine	W. A. Scott	554,960	Feb. 18	2042	484	74	920
Cereals and preparing same. Flaked.	J. H. Kellogg	558,393	Apr. 14	1553		75	310
Cereals for food. Machine for reducing and preparing	H. D. Perky	571,284	Nov. 10	1535	364 365	77	952
Cereals. Machine for reducing	H. D. Perky	571,285	Nov. 10	1538	365	77	953
Cereals. Process of and apparatus for hulling and cooking	K. Hopkins	563,860	July 14	1084	255	76	218
Chain	E. Becker	556,730	Mar. 24	2234	521 522	74	1597
Chain	R. A. Brel	564,406	July 21	2052	481	76	410
Chain	C. E. Harthan	568,531	Sept. 29	3169	763	76	1927
Chain	L. D. Howard	572,991	Dec. 15	1590	381	77	1619
Chain	G. L. Reenstierna	566,095	Aug. 18	2094	511	76	1048
Chain. Adjustable drag	J. H. Mitchell	566,995	Sept. 1	462	106 107	76	1369
Chain and chain-wheel. Drive	A. C. Schaefer and H. J. Gray	566,230	Aug. 18	2310	566	76	1089
Chain and sprocket-wheel. Drive	C. W. Parsons	562,739	June 23	2924	710	75	1980
Chain and wheel. Sprocket	J. and H. Monks	564,830	July 28	2730	661	76	559
Chain. Drive	E. A. Baldwin. (Reissue)	11,571	Sept. 29	3529	846	76	1996
Chain. Drive	G. Engel	558,267	Apr. 14	1343	329	75	271
Chain. Drive	J. C. Garrood	569,632	Oct. 20	1597	378	77	333
Chain. Drive	R. F. Hall	554,181	Feb. 4	697	157	74	633
Chain. Drive	J. Moore	559,807	May 12	820	192	75	852
Chain. Drive	V. H. Perry	564,760	July 28	2668	635	76	539
Chain. Drive	C. W. Schwartz, Jr.	564,030	July 14	1391	323	76	273

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Chain. Driving.....	J. Appleby.....	562,364	June 23	2285	556	75	1861
Chain for conveyers, &c.....	J. M. Dodge.....	565,844	Aug. 11	1627	398 399 904	76	939
Chain from sheet metal. Machine for automatically manufacturing.....	C. F. Smith.....	574,176	Dec. 29	3790	905 906 907	77	2059
Chain hook. Watch.....	J. Wilde.....	564,493	July 21	2190	513	76	434
Chain-link.....	J. W. Garland.....	565,445	Aug. 11	889	210	76	801
Chain-link.....	W. J. Patterson.....	556,639	Mar. 17	2086	488	74	1552
Chain-link.....	J. A. Steinmetz.....	567,323	Sept. 8	1058	252	76	1490
Chain-link. Detachable.....	J. M. Dodge.....	564,057	July 14	1452	338	76	285
Chain-link. Driving.....	B. Holt.....	570,637	Nov. 3	403	96	77	712
Chain-link. Insertible.....	E. K. Roden.....	567,511	Sept. 8	1366	328	76	1546
Chain-link. Lubricating.....	A. J. B. Berger.....	565,199	Aug. 4	465	111	76	702
Chain-link. Metal.....	H. L. Ferris.....	568,245	Sept. 22	2660	637	76	1818
Chain-link. Metal.....	E. B. Hunt.....	562,612	June 23	2710	656	75	1940
Chain-link. Wire.....	H. L. Ferris.....	562,519	June 23	2536	616	75	1907
Chain. Lock.....	P. S. Kingsland.....	553,650	Jan. 28	2089	492	74	433
Chain-machine.....	J. H. Doolittle.....	568,749	Oct. 6	59	15	77	14
Chain. Machine for automatically making wire.....	C. F. Smith. (Reissue).....	11,532	Apr. 14	1690	406 407 408 409 410 171	75	336
Chain-making machine.....	R. A. Breul.....	559,770	May 5	723	172 173 174	75	818
Chain-making machine.....	W. A. Reid.....	573,537	Dec. 22	2600	616 617	77	1824
Chain. Sprocket.....	J. B., Sr., and J. B. Dunlop, Jr.....	552,899	Jan. 14	773	187	74	158
Chain. Sprocket.....	G. W. Hadley.....	558,277	Apr. 14	1357	331	75	274
Chain. Sprocket.....	F. Myers.....	571,978	Nov. 24	2756	650	77	1214
Chain. Sprocket drive.....	M. A. Linnell.....	562,629	June 23	2738	664	75	1945
Chain tightener. Sprocket.....	G. H. Carver.....	572,864	Dec. 8	1355	327	77	1556
Chain wrench.....	G. Amborn, Jr.....	570,213	Oct. 27	2631	624	77	537
Chain wrench.....	G. Amborn, Jr.....	570,214	Oct. 27	2633	624	77	537
Chains. Coupling-block for sprocket.....	O. J. Merritt.....	562,550	June 23	2582	627	75	1915
Chains. Detachable link for drive.....	A. Ritscher.....	556,643	Mar. 17	2090	489	74	1552
Chains. Machine for manufacturing weldless.....	H. Rongier.....	555,737	Mar. 3	429	100 101	74	1206
Chains. Trip-hook for wrapping log.....	J. Fleming.....	558,273	Apr. 14	1352	330	75	273
Chair:							
See Baby-chair. Opera-chair.							
Barber's chair. Photographic posing-chair.							
Combination-chair. chair.							
Convertible chair. Piano-chair.							
Dental chair. Reclining-chair.							
Elevating-chair. Revolving chair.							
Folding chair. Rocking-chair.							
Folding or collapsible chair. Shoulder and back bracing chair.							
Hammock-chair. Type-writer's chair.							
Invalid-chair. Window-cleaning chair.							
Nursery-chair.							
Chair.....	H. W. Bolens.....	568,127	Sept. 22	2460	591	76	1780
Chair.....	W. H. Davy.....	572,503	Dec. 1	727	173	77	1416
Chair.....	J. H. F. Evers and H. Woerner.....	555,642	Mar. 3	277	65	74	1180
Chair.....	F. F. Fortney.....	564,744	July 28	2634	627	76	533
Chair.....	J. Gilson.....	555,694	Mar. 3	357	83	74	1193
Chair.....	J. Gilson.....	560,615	May 19	2305	528	75	1174
Chair.....	J. Gilson and H. W. Bolens.....	562,387	June 23	2323	565	75	1867
Chair.....	J. Healy.....	568,679	Sept. 29	3450	825	76	1981
Chair.....	A. D. Linn and L. Gohlke.....	557,406	Mar. 31	3442	824 825	74	1845
Chair.....	V. A. Menuez.....	567,837	Sept. 15	1923	461	76	1668
Chair.....	M. W. Neuens.....	571,536	Nov. 17	1969	469	77	1046
Chair.....	J. W. Rankin.....	572,717	Dec. 8	1115	270	77	1510
Chair and box. Combined.....	H. H. Bruce.....	571,335	Nov. 17	1624	386	77	984
Chair and cane. Combined.....	A. E. Springsted.....	574,011	Dec. 29	3472	830	77	2001
Chair and crib.....	E. R. Ritter.....	560,046	May 12	1284	289	75	939
Chair attachment.....	F. Berkemeyer.....	564,044	July 14	1427	332	76	280
Chair attachment.....	E. I. Nichols.....	560,044	May 12	1280	288	75	938
Chair attachment.....	L. S. Pickett.....	553,359	Jan. 21	1586	378	74	324
Chair-brace.....	J. Cooper.....	572,409	Dec. 1	582	138	77	1389
Chair fan attachment. Rocking.....	T. Cunniff.....	562,566	June 23	2667	646	75	1931
Chair fan attachment. Rocking.....	J. A. Gerlemann.....	554,597	Feb. 11	1409	330	74	783
Chair fan attachment. Rocking.....	G. Herfurth.....	569,497	Oct. 13	1335	314	77	268
Chair fan attachment. Rocking.....	R. Taggart.....	573,114	Dec. 15	1805	435	77	1662
Chair-leg-strengthening device.....	H. Geise.....	566,979	Sept. 1	432	101	76	1363
Chair runner. Rocking.....	W. Werner.....	557,521	Mar. 31	3641	873	74	1882
Chair-seat.....	W. Crouch.....	567,639	Sept. 15	1587	382	76	1603
Chair-seat.....	H. W. Johnson.....	552,840	Jan. 7	640	157	74	121
Chair-seat.....	F. Ring.....	565,231	Aug. 4	556	130	76	717
Chair-seat and fabric therefor.....	E. Morris.....	558,511	Apr. 21	1770	430	75	368
Chair-support. Adjustable.....	G. A. and E. G. Watkins.....	555,029	Feb. 18	2172	517 518	74	942
Chair table attachment.....	J. E. Moudy.....	569,508	Oct. 13	1363	320	77	273
Chair with coin-freed controlling mechanism. Automatic folding.....	G. T. Wagner.....	554,750	Feb. 18	1674	394	74	850
Chalk holder. Tailor's.....	A. Smith and J. Barker.....	558,318	Apr. 14	1426	350	75	288
Chamber pail or vessel. Sanitary.....	H. H. Cherry.....	558,040	Apr. 14	958	235	75	198

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Chandeliers. Apparatus for raising or lowering center lights of	R. H. Best	568,015	Sept. 22	2234	539	76	1739
Chandeliers. Electric slide for	G. J. Carson	568,740	Oct. 6	43	11	77	11
Chandeliers. Oil cut-off for telescopic	F. Rhind	563,413	July 7	299	68	76	59
Change-carrier	J. W. Jones	565,903	Aug. 18	1738	426	76	977
Channeling-machine	A. Ball	555,633	Mar. 3	255	59, 60	74	1177
Channeling-machine	H. C. Sergeant	565,639	Aug. 11	1263	305	76	870
Channeling-machine. Bar	F. A. Halsey and A. Doney	564,993	Aug. 4	56	13, 14	76	628
Charging and drawing apparatus	S. C. Collin	565,434	Aug. 11	869	205 } 206 }	76	797
Charging apparatus	H. H. Campbell	567,848	Sept. 15	1945	466	76	1672
Chariot. Cycloidal	W. D. Cronin	567,580	Sept. 15	1491	357	76	1585
Chariot. Cycloidal	W. D. Cronin	567,581	Sept. 15	1493	357 } 358 }	76	1585
Chart. Astronomical	L. W. Yaggy	554,101	Feb. 4	551	122 } 123 }	74	605
Chart. Astronomical	L. W. Yaggy	554,809	Feb. 18	1771	417 } 418 }	74	868
Chart. Astronomical	L. W. Yaggy	556,466	Mar. 17	1827	425 } 426 }	74	1505
Chart. Educational	S. L. Blaisdell	557,182	Mar. 31	3020	722	74	1769
Chart. Sleeve	W. Baasel	570,835	Nov. 3	758	173	77	780
Chart. Tailor's cutting	W. Baasel	570,834	Nov. 3	756	172	77	779
Chart. Zodiacal	J. and C. Lindahl	573,091	Dec. 15	1769	425	77	1654
Check and shade holder	J. B. Newman (Reissue)	11,535	Apr. 28	3921	792	75	667
Check-bit	E. R. Reynolds	558,742	Apr. 21	2159	521	75	439
Check-blank	G. H. Rogers	561,179	June 2	193	48	75	1403
Check, draft, &c. Blank	J. M. Lansdowne	569,973	Oct. 20	2201	523	77	442
Check, draft, order, &c. Self-identifying	E. L. C. Ward	569,364	Oct. 13	1119	266 } 267 }	77	230
Check-holder	E. Sterling	556,871	Mar. 24	2488	587	74	1645
Check-hook	H. W. Burruss	556,661	Mar. 17	2118	494	74	1558
Check-hook	M. E. Huebner	553,117	Jan. 14	1152	279	74	230
Check-hook	W. A. Whitney	561,248	June 2	291	73	75	1424
Check-protector	G. W. Beebe	554,613	Feb. 11	1440	337 } 338 }	74	788
Checking device	C. W. Helden	566,577	Aug. 25	2940	718	76	1224
Checking or unchecking device	H. J. Jilbert	553,471	Jan. 21	1763	421	74	358
Checkrein attachment	F. L. Adams	553,501	Jan. 28	1819	432	74	385
Checkrein attachment	J. Patrick	553,214	Jan. 14	1320	320	74	262
Checkrein attachment	A. C. Williams	571,987	Nov. 24	2769	653	77	1217
Checkrein-fastener	H. M. Herring	571,830	Nov. 24	2485	589	77	1162
Checkrein guide-loop	E. D. Stansbury	566,033	Aug. 18	1991	482	76	1029
Checkrein. Harness	J. M. Chaffin	556,618	Mar. 17	2058	481	74	1546
Checkrein-hook	J. R. Gump	565,268	Aug. 4	606	143	76	727
Checkrein-hook	H. F. Hartwell	555,444	Feb. 25	2935	696	74	1101
Checkrein-hook	C. L. McIntire	572,905	Dec. 8	1418	342	77	1571
Checkrein-hook	C. D. Morrison	557,856	Apr. 7	591	140	75	111
Check-row-line distributor	C. E. White	562,056	June 16	1762	426	75	1748
Check-row-wire tension device	G. B. Austin	554,969	Feb. 18	2057	489	74	922
Check-rower	M. C. Nixon	557,315	Mar. 31	3276	785	74	1812
Check-stub holder	T. W. Kimbell	562,620	June 23	2720	659	75	1941
Checks. Advice and safety attachment for bank	M. Feintuch	559,099	Apr. 28	2783	674	75	575
Cheese-cutter	W. R. Gorrell	570,472	Nov. 3	58	14	77	649
Cheese-cutter	N. J. Smith	553,768	Jan. 28	2284	541	74	471
Cheese-making	W. M. Turner	567,522	Sept. 8	1378		76	1548
Cheese-press	L. Sigmund	572,455	Dec. 1	651	153	77	1402
Cheese-press	D. A. Sprague	558,321	Apr. 14	1429	351	75	288
Cheese-safe	H. Muselmann	565,557	Aug. 11	1121	271	76	843
Chenille fabric. Woven	L. Binns	559,667	May 5	536	124 } 125 }	75	784
Chenille trimming	A. Lederer	574,366	Dec. 29	4142	984	77	2123
Chest. Flour and meal	J. C. Foraker	554,219	Feb. 4	750	171	74	643
Chest-protector	O. Riess	552,670	Jan. 7	296	79	74	58
Child-carrying strap	M. Collins	554,019	Feb. 4	398	87	74	578
Chime	W. C. Ladd	559,805	May 12	817	192	75	851
Chime. Electric	J. H. Gerry and F. M. Schmidt	561,881	June 9	1461	352 } 353 }	75	1671
Chime-wheel	F. Agnew	561,641	June 9	1034	249	75	1590
Chiming mechanism	A. E. Olney	571,075	Nov. 10	1177	276	77	885
Chimney	A. G. Borry	571,333	Nov. 17	1621	385	77	983
Chimney. Burner	A. P. Storrs	560,051	May 12	1291	290	75	940
Chimney cap and ventilator	W. J. Kayser	559,388	May 5	63	14	75	692
Chimney collar or protector	E. Henshaw	555,093	Feb. 25	2308	548	74	983
Chimney-cowl	J. M. De Lanoy	555,761	Mar. 3	461	110	74	1213
Chimney-cowl	W. E. Esperson	564,368	July 21	1988	467	76	397
Chimney-cowl	D. Scott	563,890	July 14	1144	268	76	230
Chimney draft appliance	P. J. Mitchell	560,169	May 12	1512	342	75	981
Chimney draft-regulator	W. B. Fowler	560,264	May 19	1702	387	75	1067
Chimney for light-giving burners	A. P. Storrs	571,867	Nov. 24	2554	606	77	1175
Chimney-protector	W. Lamprecht and E. C. Krieger	572,761	Dec. 8	1196	288	77	1524
Chimney-thimble	C. F. Green	563,567	July 7	597	139	76	112
Chimney-top	W. Eigel	552,828	Jan. 7	619	150	74	116
Chimney-top	J. Watson	567,775	Sept. 15	1806	433	76	1646
Chimney. Transparent	A. P. Storrs	571,866	Nov. 24	2553	605	77	1175
Chimney. Ventilating	W. J. Gordon	555,643	Mar. 3	278	65	74	1180
Chimney ventilator or cowl	J. Jedlicka, Sr.	555,448	Feb. 25	2941	699	74	1102
Chin-support for laying out the dead	F. R. Fales	573,178	Dec. 15	1918	460	77	1682
Chisel. Mortising	H. Ruppert	571,400	Nov. 17	1724	410	77	1002
Chisel. Subaqueous rock-breaking	P. S. Ross	559,812	May 12	824	193	75	852
Chlorin. Apparatus for making	S. A. Sadler and R. H. Wilson	573,039	Dec. 15	1668	400 } 401 }	77	1636
Chlorin. Making	W. Donald	570,624	Nov. 3	383		77	709
Chloroform and apparatus therefor. Making	O. Porsch	573,483	Dec. 22	2508	595	77	1807

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Chloro-theophyllin and preparing it.	E. Fischer	559,347	Apr. 28	3278	75	666
Chock-block	N. T. Boose	571,641	Nov. 17	2140	514	77	1078
Chocolate-coating apparatus	C. T. Viau	570,575	Nov. 3	263	66	77	687
Chocolate-dipper	C. Gousset	552,833	Jan. 7	625	152	74	118
Chocolate-dipper	L. Magenheimer	560,909	May 26	2891	663	75	1301
Chopper:							
<i>See</i> Cotton-chopper.							
Meat-chopper.	Stalk and weed chopper.						
Chopping-block	J. Wittemann	556,120	Mar. 10	1128	267	74	1358
Chopping-knife	G. C. Newell	554,788	Feb. 18	1742	408	74	863
Christmas-tree candle-holder	C. Reinhardt	562,155	June 16	1935	470	75	1778
Christmas-tree stand	H. W. Kurtz	573,225	Dec. 15	2005	481	77	1698
Chronometer-escapement	C. G. Cronwall	560,691	May 26	2499	574	75	1226
Chromos. Mounting	P. I. Bonney	572,956	Dec. 15	1530	366	77	1607
Chronometric apparatus	B. W. Dunn	572,699	Dec. 8	1077	262	77	1503
Chronophotographic apparatus	M. J. H. Joly	569,875	Oct. 20	2028	483 484	77	409
Chuck	T. E. Cherry	566,725	Aug. 25	3170	775	76	1265
Chuck	W. H. McCoy	568,539	Sept. 29	3183	767	76	1929
Chuck	F. Mink	568,985	Oct. 6	471	106	77	90
Chuck	F. H. Richards	562,421	June 23	2370	578	75	1876
Chuck	G. H. Sellers	574,077	Dec. 29	3587	857	77	2023
Chuck	F. W. Siegel	563,813	July 14	984	234	76	200
Chuck	E. H. Vogel	573,189	Dec. 15	1941	467	77	1686
Chuck. Drill	A. D. Goodell	566,905	Sept. 1	288	67	76	1338
Chuck. Drill	G. S. Long	553,531	Jan. 28	1879	444	74	396
Chuck. Drill	N. O. Swanson	571,461	Nov. 17	1828	436	77	1022
Chuck. Drill	D. Weir	558,242	Apr. 14	1298	317	75	262
Chuck. Expandible	J. O. Smith	569,245	Oct. 13	915	219	77	191
Chuck for bit-stocks. Tool-holding	A. D. Goodell	563,372	July 7	235	53	76	48
Chuck for hollow ware	A. R. Pritchard	567,004	Sept. 1	480	111	76	1372
Chuck. Machine	A. D. Laws	567,399	Sept. 8	1190	984 285	76	1514
Chuck. Magnetic	O. S. Walker	564,296	July 21	1864	436	76	375
Chuck. Universal	V. A. Sallot	570,736	Nov. 3	590	135 136	77	746
Churn	J. A. Asher	572,146	Dec. 1	90	20	77	1295
Churn	J. F. Baugh	567,018	Sept. 1	504	119	76	1377
Churn	J. B. Beugle, W. Uhl, and A. G. Slawson.	565,667	Aug. 11	1321	318 319	76	881
Churn	J. W. Board and E. B. Hyre	567,449	Sept. 8	1267	307	76	1528
Churn	D. M. Buerk	561,652	June 9	1051	254	75	1593
Churn	W. C. Burge	564,270	July 21	1825	427	76	368
Churn	P. Catinna	565,330	Aug. 4	698	167	76	745
Churn	J. F. Class	563,222	June 30	3817	914	75	2172
Churn	W. R. Cullison	571,039	Nov. 10	1113	260	77	874
Churn	R. J. Force	573,400	Dec. 15	2317	554	77	1754
Churn	W. L. Haley	562,296	June 16	2165	526	75	1822
Churn	J. A. D. Harper and D. R. Smith	572,484	Dec. 1	690	165	77	1410
Churn	H. L. Holt	562,186	June 16	1992	482	75	1790
Churn	A. J. Hopkins	560,995	May 26	3021	696	75	1326
Churn	J. Johnson and W. Pence	555,007	Feb. 18	2136	509	74	935
Churn	H. Kahl	558,454	Apr. 14	1669	402	75	333
Churn	R. T. and S. W. Kennedy	569,718	Oct. 20	1775	421	77	363
Churn	W. R. Kramer	569,925	Oct. 20	2114	503	77	426
Churn	W. D. Linton	554,784	Feb. 18	1737	407	74	862
Churn	J. W. Martin	565,552	Aug. 11	1115	269	76	842
Churn	J. W. and R. S. Matthews	566,084	Aug. 18	2071	504 505	76	1043
Churn	J. C. McCallen	573,993	Dec. 29	3444	824	77	1996
Churn	C. L. O'Kelley	567,354	Sept. 8	1117	268	76	1500
Churn	H. Obermeyer	560,528	May 19	2149	491	75	1146
Churn	J. F. Richardson	561,131	June 2	94	26	75	1385
Churn	J. A. Roberts and W. E. C. Vermillion.	567,726	Sept. 15	1731	414	76	1632
Churn	C. Sebastian	574,282	Dec. 29	4009	951	77	2099
Churn	W. Sparling	564,228	July 21	1747	409	76	354
Churn	J. M. Stukes	553,272	Jan. 21	1426	345	74	296
Churn	J. M. Stukes	568,005	Sept. 22	2218	536	76	1736
Churn	E. D. Toops	563,100	June 30	3608	865	75	2133
Churn	B. Walker, Jr.	565,817	Aug. 11	1583	386	76	930
Churn	C. F. Wikoff	552,946	Jan. 14	860	208	74	175
Churn and butter-worker	C. S. Brown and F. B. Fargo	557,961	Apr. 7	780	185 186	75	147
Churn and butter-worker	C. S. Brown and F. B. Fargo	565,719	Aug. 11	1415	344 345	76	899
Churn and butter-worker	W. E. Penn	565,791	Aug. 11	1538	374 375	76	922
Churn and butter-worker. Combined	C. S. Brown	565,720	Aug. 11	1419	346	76	900
Churn and butter-worker. Combined	R. B. Disbrow	564,977	Aug. 4	30	6	76	623
Churn and butter-worker. Combined	L. A. Disbrow	564,978	Aug. 4	33	6.7	76	623
Churn and ice-cream freezer. Combined	W. H. De Camp	553,554	Jan. 28	1914	453	74	402
Churn-cover	G. E. Bardshar	562,699	June 23	2845	690	75	1964
Churn-dasher	C. Berst	565,130	Aug. 4	318	76	76	676
Churn-dasher	J. E. Gibbs	568,086	Sept. 22	2389	576	76	1767
Churn-dasher	J. N. Hatcher	565,980	Aug. 18	1909	463	76	1012
Churn-operating mechanism	Z. A. Taylor	567,519	Sept. 8	1374	331	76	1547
Churn-power	G. C. Forbes	553,457	Jan. 21	1731	413	74	352
Churning apparatus. Mechanism for operating	C. E. Perkins	564,158	July 14	1640	383	76	321
Churning of butter. Compound for facilitating	W. H. Brown	558,035	Apr. 14	949	.....	75	196
Chute. Coal	W. W. Sperry	559,628	May 5	477	110	75	773
Chute. Discharge	P. Berres	556,527	Mar. 17	1918	447	74	1520
Chute for coal-wagons. Sectional	J. Koller	556,934	Mar. 24	2585	608 609	74	1662

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Chutes for ore-docks. Counterbalance for	E. C. Carter	558,774	Apr. 21	2211	532 533	75	448
Cider-press	A. M. Cline and E. C. Ecker	555,429	Feb. 25	2896	689	74	1094
Cider-press	G. L. Ort	562,969	June 30	3375	812	75	2089
Cider-press and juice-extractor	J. T. Waters and G. Clopton	572,936	Dec. 8	1487	357	77	1583
Cigar	G. Minck	553,310	Jan. 21	1500	360	74	309
Cigar-box	H. F. Bente	570,534	Nov. 3	176	47	77	670
Cigar-box	J. P. Dorticos	561,574	June 9	925	221	75	1570
Cigar-box	P. H. Ertheiler	571,945	Nov. 24	2697	638	77	1203
Cigar-box	W. F. Fuchs	554,592	Feb. 11	1399	329	74	782
Cigar-box	A. Thalheimer	567,420	Sept. 8	1221	292	76	1519
Cigar-box and cabinet	S. M. Friede	565,265	Aug. 4	603	142	76	726
Cigar branding and cutting machine	A. Schwarz	563,622	July 7	649	151	76	122
Cigar-branding device	P. Gebhard	557,066	Mar. 24	2817	671	74	1708
Cigar-branding device	L. C. Walsh and R. T. Todd	573,730	Dec. 22	2963	702	77	1893
Cigar-branding machine	A. Rottach	570,230	Oct. 27	2663	633	77	543
Cigar-bunch machine	F. C. Miller	567,350	Sept. 8	1103	265 266	76	1498
Cigar-bunch machine	S. Rosenberger and S. Jackson	553,764	Jan. 28	2279	539	74	470
Cigar-bunch-rolling machine	F. R. Keyes and C. A. Baker	571,375	Nov. 17	1687	400 401 402	77	995
Cigar-bunch-rolling machine	F. R. Keyes, C. A. Baker, and J. Bunn	566,325	Aug. 25	2476	606 607	76	1136
Cigar-bunching machine	N. Du Brul	560,576	May 19	2240	513	75	1162
Cigar-bunching machine	W. H. Isley	572,170	Dec. 1	134	32	77	1303
Cigar-bunching machine	W. Yellowley and C. Meyer	563,115	June 30	3632	870 871	75	2137
Cigar-case	F. Magnolo	556,192	Mar. 10	1266	295 296	74	1383
Cigar-clipper and match-box. Combined	Y. del Campo	566,137	Aug. 18	2167	527	76	1060
Cigar-clippings. Press for packing	W. E. Knollenberg and T. D. Crawford	564,287	July 21	1854	434	76	373
Cigar cutter and lighter. Combined	P. J. Caesar	567,578	Sept. 15	1485	356	76	1583
Cigar-fillers. Machine for forming continuous	J. Dela Mar	554,635	Feb. 11	1486	347 348	74	797
Cigar-flavoring apparatus	L. B. White	572,323	Dec. 1	423	100	77	1359
Cigar-head-perforating machine	C. Matz	567,947	Sept. 15	2101	506	76	1702
Cigar-holder	A. Liesenberg	560,510	May 19	2124	486	75	1141
Cigar-lighter	J. Frye	557,375	Mar. 31	3380	812	74	1833
Cigar-lighter	A. C. Grublike and W. F. Kessler	562,395	June 23	2333	568	75	1869
Cigar-lighter. Electric	W. Fisher	559,939	May 12	1085	241	75	899
Cigar-lighter. Electric	F. W. Schindler-Jenny	565,571	Aug. 11	1148	276 277	76	848
Cigar-machine	J. Reuse	554,606	Feb. 11	1425	333 334 335	74	786
Cigar-mold	N. Du Brul	560,577	May 19	2242	514	75	1162
Cigar-mold	S. W. Keedle, W. P. and S. B. Tarbet	558,078	Apr. 14	1029	251	75	211
Cigar-mold	S. K. Shoup and J. A. Hoeffler	555,978	Mar. 10	854	203	74	1310
Cigar-mold clamp	A. Thalheimer	567,419	Sept. 8	1220	292	76	1519
Cigar-mold-shaping machine	W. E. Bassett	568,290	Sept. 22	2730	655	76	1832
Cigar-roller's clamp	E. M. Hyslop	564,751	July 28	2653	631	76	536
Cigar-rolling machine	J. Bunn	566,058	Aug. 18	2026	492	76	1035
Cigar-stamping machine	E. N. Cusson	565,532	Aug. 11	1082	260	76	836
Cigar-tip cutter	I. C. C. Rinehart	558,611	Apr. 21	1933	470	75	398
Cigar-tip cutter. Automatic	C. Lehmann and E. Brunhoff	567,277	Sept. 8	965	229	76	1473
Cigar-tray	J. Buchtel	572,469	Dec. 1	668	158	77	1406
Cigar-vending machine	C. H. Tise and J. D. King	566,250	Aug. 18	2340	573 574	76	1095
Cigars in broached cases. Appliance for protecting	F. X. Hardt	562,465	June 23	2454	595	75	1892
Cigarette	B. Baron	555,420	Feb. 25	2876	683	74	1091
Cigarette and making same	L. H. Sondheim	556,218	Mar. 10	1311	308	74	1391
Cigarette-blanks. Apparatus for cutting	J. A. Bonsack	566,054	Aug. 18	2018	489 490 491	76	1034
Cigarette-box	W. D. Pittman	554,140	Feb. 4	627	141	74	619
Cigarette-box	T. West	560,453	May 19	2046	466	75	1126
Cigarette-cutting device for continuous-cigarette machines	R. Hardie	558,646	Apr. 21	1987	482	75	408
Cigarette-cutting machine	D. J. Campbell	561,964	June 16	1606	390	75	1719
Cigarette-machine	H. Bilgram	565,851	Aug. 11	1637	401 402 403	76	941
Cigarette-machine	H. Bilgram	572,150	Dec. 1	96	22	77	1296
Cigarette-machine	H. Bohls	554,575	Feb. 11	1360	318 319 320 321	74	774
Cigarette-machine	J. A. Bonsack	572,152	Dec. 1	101	24	77	1297
Cigarette-machine	J. A. Bonsack	573,640	Dec. 22	2800	662 663	77	1864
Cigarette-machine	W. C. Briggs	553,507	Jan. 28	1828	433 434	74	386
Cigarette-machine	G. F. Carlie	568,661	Sept. 29	3417	817 818	76	1974
Cigarette-machine	J. H. Dunn	565,967	Aug. 18	1882	458	76	1006
Cigarette-machine	E. Georgii	555,369	Feb. 25	2790	653 654 654	74	1074
Cigarette-machine	D. Perez y Buñol	568,273	Sept. 22	2703	647 648 649	76	1827
Cigarette-machine	F. H. Richards	572,375	Dec. 1	524	123 124	77	1377

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cigarette-machine	D. B. Strouse	554,096	Feb. 4	538	120 676 677 678 679 680 681	74	602
Cigarette machine. Continuous.....	B. Baron	555,417	Feb. 25	2864	678 679 680 681	74	1089
Cigarette machine. Continuous.....	E. J. Lumley	562,772	June 23	2976	721 722	75	1992
Cigarette-machine pasting mechanism	J. S. Beeman	571,061	Nov. 10	1143	268	77	881
Cigarette-machines. Filler-forming mechanism for	K. H. Carper	554,216	Feb. 4	745	170	74	642
Cigarette machines. Tape or belt for continuous.....	R. Hardie	567,644	Sept. 15	1596	384	76	1605
Cigarette-machinery	H. Bilgram	565,852	Aug. 11	1646	403 404 405	76	942
Cigarette-making machine	B. Baron	555,418	Feb. 25	2873	681	74	1090
Cigarette-making machine	A. Bruandet	562,213	June 16	2030	490 491	75	1797
Cigarette or cigar	E. Moonelis	561,907	June 9	1506	364 114 115 116 117	75	1679
Cigarette-packing machine.....	C. W. Van Vleet and A. Hurd	567,014	Sept. 1	493	114 115 116 117	76	1375
Cigarette-roller	A. F. Madden	571,778	Nov. 24	2393	572	77	1145
Cigarette-shide and match-box. Combined.....	F. G. Wander	558,445	Apr. 14	1652	397	75	330
Cigarette-splitting machine	J. F. Hartigan	553,583	Jan. 28	1972	467 468 405 406 407	74	413
Cigarette-tube machine	J. A. Bonsack	565,853	Aug. 11	1652	406 407	76	944
Cigarette-tubes. Machine for making.....	A. Bruandet	566,559	Aug. 25	2916	711 712	76	1219
Cigarette-undoing machine	J. M. Urgellés	556,595	Mar. 17	2021	472	74	1539
Cigarettes. Machine for making pasted	H. F. M. Lemaire	568,538	Sept. 29	3178	765 766	76	1929
Cigarettes. Manufacture of	N. J. Evans	569,184	Oct. 13	801	187	77	168
Cigarettes. Manufacture of	C. K. Pickels	569,052	Oct. 6	582	133	77	111
Cigarettes. Method of and apparatus for manufac- turing	B. Baron	555,419	Feb. 25	2874	681 682	74	1091
Circuit-block	D. A. Schutt	556,028	Mar. 10	953	927	74	1326
Circuit-breaker	M. J. Griffith	559,280	Apr. 28	3155	762	75	643
Circuit-breaker	W. B. Potter	560,427	May 19	1993	455	75	1118
Circuit-breaker	W. B. Tobey and H. W. Smith	565,244	Aug. 4	576	144	76	721
Circuit-breaker	A. J. Wurts	570,212	Oct. 27	2629	623	77	536
Circuit-breaker	A. J. Wurts	570,415	Oct. 27	3037	720	77	611
Circuit-breaker	A. J. Wurts	570,419	Oct. 27	3047	722	77	614
Circuit breaker and closer. Automatic.....	C. C. Drake	569,960	Oct. 20	2184	518	77	438
Circuit-breaker. Automatic	E. M. Hewlett	567,137	Sept. 8	723	169	76	1431
Circuit-breaker. Automatic	W. H. Powell	571,097	Nov. 10	1220	285	77	894
Circuit-breaker. Automatic	A. J. Wurts	570,417	Oct. 27	3040	720 721	77	612
Circuit-breaker handle	W. B. Potter	558,518	Apr. 21	1782	433	75	370
Circuit closer and breaker. Electric.....	J. R. Farmer	554,918	Feb. 18	1974	466	74	907
Circuit-closer. Automatic	E. C. Williams	572,923	Dec. 8	1462	351	77	1579
Circuit-closer. Automatic safety	W. L. Pratt and F. E. Ripley	570,955	Nov. 10	972	227	77	848
Circuit-closer for electrical alarm-circuits	J. C. Wollin	573,948	Dec. 29	3348	803	77	1979
Circuit-closer or alarm. Thermometric	R. Pearson	560,921	May 26	2909	667	75	1305
Circuit-controlling device	J. H. Clark	563,743	July 14	859	205	76	177
Circuit-interrupting device	A. J. Wurts	570,416	Oct. 27	3039	720	77	612
Circuits. Device for detecting short	C. F. Scott and C. E. Skinner	556,646	Mar. 17	2093	490	74	1553
Circuits. Regulating polyphase	A. H. Armstrong	571,467	Nov. 17	1836	438	77	1023
Circular cutter	J. D. Tracy	570,828	Nov. 3	746	170	77	777
Circular-cleaner	J. A. McCawley	571,278	Nov. 10	1528	362	77	951
Cistern-cleaner	H. F. Mueller	558,656	Apr. 21	2009	486	75	412
Cistern-cleaner	F. Rightmeyer	565,925	Aug. 18	1793	437	76	989
Cistern-cleaner	S. J. Vance	568,057	Sept. 22	2327	562	76	1754
Cisterns or wells. Device for cleaning	O. L. Weldon	567,181	Sept. 8	790	186	76	1443
Cisterns, reservoirs, &c. Mold for	R. W. Campbell	559,931	May 12	1072	238 239	75	897
Cithern. Keyed	L. K. Dathan	562,283	June 16	2143	521 522	75	1817
Clamp:							
<i>See</i> Apron-clamp. Furniture-clamp.							
Basin-clamp. Gluing-clamp.							
Beam-clamp. Hose-clamp.							
Bedclothes-clamp. Jar-clamp.							
Bedstead-clamp. Line-clamp.							
Bell-clamp. Molder's clamp.							
Bench-clamp. Pipe-clamp.							
Bicycle-pedal clamp. Rope-clamp.							
Bicycle-saddle Saw-clamp.							
clamp. Soldering-clamp.							
Billiard-cue-tip Splicing-clamp.							
clamp. Stone-clamp.							
Cigar-mold clamp. Tire-clamp.							
Cigar-roller's clamp. Weather-board clamp.							
Fence-wire clamp. Wheel rim-clamp.							
Floor and ceiling Wire-confining clamp.							
clamp. Woodworker's clamp.							
Floor or ceiling clamp.							
Clamp.....	L. Adrianse	561,151	June 2	137	36	75	1392
Clamp.....	B. G. Casler	562,949	June 30	3334	801	75	2080
Clamp.....	A. S. Hill	563,591	July 7	601	140	76	113
Clamp.....	W. W. Hubbard	563,038	June 30	3481	837	75	2109

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	De'g.	Vol.	Page.
Clamp.....	J. A. Meaher.....	556,194	Mar. 10	1270	297	74	1383
Clamp.....	J. Mowrer.....	555,614	Mar. 3	219	51	74	1170
Clamp.....	C. D. Pittis.....	573,287	Dec. 15	2120	509	77	1718
Clamp.....	A. F. Schulze.....	562,922	June 30	3265	788	75	2064
Clamp.....	W. H. Terrell.....	566,487	Aug. 25	2811	685	76	1198
Clamp.....	J. R. Weaver.....	554,808	Feb. 12	1770	417	74	868
Clamp for textile machinery. Automatic.....	H. W. Butterworth.....	571,508	Nov. 17	1918	458	77	1038
Clamp for textile machinery. Cloth.....	C. Weichelt.....	573,065	Dec. 15	1720	413	77	1645
Clamp-joint.....	A. Edquist.....	571,042	Nov. 10	1116	261	77	875
Clamping device.....	J. H. Stockham.....	562,662	June 30	3161	766	75	2042
Clamping or securing device.....	F. W. and E. P. Parsons.....	555,879	Mar. 3	665	159	74	1253
Clarifying solutions. Apparatus for.....	E. W. Deming.....	566,726	Aug. 25	3172	776	76	1265
Clarinet.....	G. Oliveri.....	570,647	Nov. 3	422	99	77	716
Clarinet reed-supporter.....	G. R. Cadwallader.....	555,561	Mar. 3	131	30	74	1154
Clasp:							
See Belt-clasp. Garment-supporter clasp.							
Corset-clasp. Hair-clasp.							
Dental-plate clasp. Lace-clasp.							
Detachable clasp. Last-clasp.							
Door-clasp. Letter-clasp.							
Dress-shield clasp. Ribbon-clasp.							
Garment-clasp. Suspender-end clasp.							
Clasp.....	G. E. Adams.....	560,670	May 26	2462	564	75	1218
Clasp.....	J. M. Davis.....	568,525	Sept. 29	3163	761	76	1926
Clasp.....	C. Linkenbach.....	558,822	Apr. 21	2292	557	75	464
Clasp.....	C. R. Vinup.....	566,253	Aug. 18	2346	575	76	1096
Clasp.....	J. V. Washburne.....	553,972	Feb. 4	308	69	74	561
Clasp or buckle.....	C. W. Stinson.....	572,915	Dec. 8	1443	347	77	1575
Claw bar.....	W. McCarthy.....	566,606	Aug. 25	2980	727	76	1232
Clay-disintegrator and stone-separator.....	B. E. Bechtel.....	557,472	Mar. 31	3545	847	74	1865
Clay-elevator.....	F. S. Slattery.....	570,106	Oct. 27	2439	580	77	501
Clay, &c. Machine for cutting.....	J. Winkelmeyer.....	559,556	May 5	356	86	75	752
Clay post.....	S. C. Pitney and G. M. Gardner.....	558,418	Apr. 14	1591	328	75	317
Clay products. Curing.....	W. L. McCarel.....	568,266	Sept. 22	2691	645	76	1824
Clay-separator.....	P. S. Place.....	572,311	Dec. 1	401	95	77	1355
Cleaner:							
See Boiler-cleaner. Grain and seed cleaner.							
Boiler-flue cleaner. Kettle-cleaner.							
Boiler-tube cleaner. Knife-cleaner.							
Brush-cleaner. Pipe-cleaner.							
Can-cleaner. Pipe-stem cleaner.							
Cistern-cleaner. Pump-cleaner.							
Comb-cleaner. Shell-cleaner.							
Cotton-cleaner. Stovepipe-cleaner.							
Dish-cleaner. Street-cleaner.							
Dust-collector cleaner. Track-cleaner.							
Flour-bolt cleaner. Tube or pipe cleaner.							
Flue cleaner. Vessel-cleaner.							
Furnace-cleaner. Well and cistern cleaner.							
Grain-cleaner. Window-cleaner.							
Cleaning apparatus.....	T. B. Leonard and L. Brick.....	559,393	May 5	78	17	75	696
Cleaning or polishing implement.....	N. A. Petry.....	573,697	Dec. 22	2901	686	77	1882
Cleat.....	M. J. Foran.....	557,984	Apr. 7	819	194	75	154
Cleat. Electric wire.....	F. B. Evans.....	558,165	Apr. 14	1163	284	75	237
Cleorch-loops. Machine for making.....	A. L. Sweet.....	568,637	Sept. 29	3364	807	76	1964
Clevis.....	J. Reel.....	571,686	Nov. 17	2209	532	77	1091
Clevis.....	C. C. Schuler.....	565,513	Aug. 11	1052	252	76	831
Clevis.....	R. L. Yeakey.....	555,469	Feb. 25	2977	709	74	1109
Clevis. Adjustable plow.....	J. F. Cochran.....	556,401	Mar. 17	1674	390	74	1475
Clevis. Chain.....	C. A. Tower.....	563,213	June 30	3800	911	75	2169
Clevis. Plow.....	M. A. Brown.....	557,765	Apr. 7	440	104	75	83
Clevis. Plow.....	J. S. Hogan.....	565,079	Aug. 4	204	51	76	655
Clip:							
See Bicycle toe-clip. Letter-clip.							
Cable-clip. Newspaper-clip.							
Conductor's hand-clip. Toe-clip.							
clip. Trolley-wire clip.							
Clip.....	W. Chivers.....	560,342	May 19	1835	418	75	1089
Clip for display of price-cards.....	I. H. Peck.....	564,799	July 28	2729	649	76	550
Clip for supporting umbrellas, sticks, &c.....	J. H. Baynes.....	562,566	June 23	2635	638	75	1926
Clipper.....	C. H. Curtis and C. E. Atwater.....	567,583	Sept. 15	1495	358	76	1585
Clipper. Hair.....	T. P. Donnelly.....	560,260	May 19	1694	386	75	1065
Clipper. Hair.....	H. Drysdale.....	574,243	Dec. 29	3939	937	77	2085
Clipper. Hair.....	J. P. Lavigne.....	561,058	May 26	3126	721	75	1346
Clipper. Hair.....	J. K. Priest.....	572,027	Nov. 24	2828	667	77	1227
Clipping-machine.....	J. A. Milliken.....	559,973	Apr. 28	2563	621	75	532
Clipping machine. Animal.....	H. Drysdale.....	558,640	Apr. 21	1976	479 480	75	406
Clipping machine. Hair.....	W. H. Bush.....	556,399	Mar. 17	1669	389	74	1474
Clipping machine. Hair.....	H. Cooper.....	566,377	Aug. 25	2582	630	76	1156
Cloak rack or stand. Combination.....	C. H. Cary.....	566,495	Aug. 25	2821	688	76	1200
Clock.....	J. T. Long.....	555,387	Feb. 25	2816	662 663	74	1079
Clock-bell.....	S. A. Galpin.....	573,778	Dec. 22	3031	718	77	1907
Clock-case.....	A. M. Lane.....	566,587	Aug. 25	2954	721	76	1226
Clock-case.....	A. Schieffer.....	560,113	May 12	1418	319	75	964
Clock dial. Geographical.....	D. W. Thompson.....	557,173	Mar. 31	3003	717	74	1766
Clock. Electric.....	S. Fischer.....	555,313	Feb. 25	2693	630 631	74	1057
Clock. Electric.....	B. Franklin and D. H. Fletcher.....	559,889	May 12	994	221 222	75	884
Clock. Electric.....	J. A. Schulte.....	572,131	Dec. 1	68	16	77	1291

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Clothes-holder	C. M. Freeman	557,796	Apr. 7	491	118	75	93
Clothes-lifter	W. Peterson	554,003	Feb. 4	367	80	74	572
Clothes-line	D. W. Ayres	559,925	May 12	1062	236	75	895
Clothes-line	H. J. Wendt	568,647	Sept. 29	3388	811	76	1968
Clothes line and pin	J. J. Walsh, J. T. Mooney, and T. F. Jordan	561,634	June 9	1025	246	75	1559
Clothes-line conveyor	A. G. Molteni	557,996	Apr. 7	860	217	75	162
Clothes-line fastener	N. J. Boudreau	566,293	Aug. 25	2410	592	76	1124
Clothes-line fastener	C. C. Horton	559,893	May 12	1008	223	75	886
Clothes-line fastener	A. and G. A. Kurtis	565,212	Aug. 4	487	116	76	707
Clothes-line hanger	J. H. Burlich	570,377	Oct. 27	2962	703	77	598
Clothes-line holder	W. P. Wheeler	566,044	Aug. 18	2004	486	76	1031
Clothes-line or wire tightening device	C. Truelsen	567,367	Sept. 8	1139	273	76	1504
Clothes-line pin	L. C. Neal	554,137	Feb. 4	623	141	74	618
Clothes-line. Pinless	J. A. Cooper	566,711	Aug. 25	3150	770	76	1261
Clothes-line. Pinless	F. Sterzing	561,142	June 2	115	31	75	1389
Clothes-line prop	R. W. Anderson	563,248	July 7	4	1	76	3
Clothes-line prop	E. P. Walker	557,733	Apr. 7	377	88	75	71
Clothes-line reel	F. L. Wright and E. N. Kelsey	565,064	Aug. 4	173	41	76	649
Clothes-line support	J. and J. A. Paglinghi and F. De Canio	554,347	Feb. 11	980	227	74	701
Clothes-line support	E. O. Phillips and G. Class, Jr.	554,497	Feb. 11	1242	291	74	750
Clothes-line support	G. Yung	567,200	Sept. 15	1860	445	76	1655
Clothes-peg	T. H. Prosser	556,555	Mar. 17	1958	457	74	1528
Clothes-pin	I. Y. Baringer	561,475	June 2	735	181	75	1509
Clothes-pin	S. Ernst	567,537	Sept. 8	1399	336	76	1552
Clothes-pin	W. M. Fitzwater	568,246	Sept. 22	2661	637	76	1818
Clothes-pounder	G. A. and E. R. Crooker	554,440	Feb. 11	1147	267	74	734
Clothes-pounder	W. P. Greenlaw	560,985	May 26	3002	691	75	1322
Clothes-pounder	G. Kint	564,892	July 28	2880	690	76	578
Clothes-pounder	O. Leddy	553,169	Jan. 14	1238	301	74	246
Clothes-pounder	H. W. Toler	573,314	Dec. 15	2182	521	77	1729
Clothes-rack	G. Bartlett	555,843	Mar. 3	591	141	74	1237
Clothes-stick	W. J. Coakley	559,264	Apr. 28	3132	757	75	639
Clothes-wringer	G. D. Leedle	554,939	Feb. 18	2007	475	74	912
Clothes-wringer	C. P. Seales and R. Shirley	564,653	July 28	2477	585	76	505
Clothes-wringer	T. W. Stone	559,760	May 5	710	168	75	816
Clover hullers, threshers, &c. Feeder for	O. Crepeau	558,935	Apr. 28	2496	606	75	519
Clutch	C. F. Broström	570,247	Oct. 27	2695	640	77	549
Clutch	E. W. Carleton	559,261	Apr. 28	3127	755	75	638
Clutch	F. F. Hoehne	568,348	Sept. 29	2898	683	76	1867
Clutch	W. W. Huntley	554,781	Feb. 18	1731	406	74	860
Clutch	A. B. Ireland	565,002	Aug. 4	72	17	76	631
Clutch	W. H. Morgan	562,478	June 23	2472	609	75	1895
Clutch	C. Quast	571,396	Nov. 17	1719	400	77	1002
Clutch. Automatic fluid-pressure friction	G. M. Richards	574,269	Dec. 29	3963	946	77	2093
Clutch. Automatic safety spring	J. Annan	569,396	Oct. 13	1169	278	77	239
Clutch. Combined frictional and positive	B. C. Waite	565,190	Aug. 4	451	108	76	700
Clutch-coupling	S. T. Johnson	564,488	July 21	2185	512	76	433
Clutch device	F. A. Errington	558,372	Apr. 14	1514	371	75	303
Clutch. Electric	T. A. Briggs and W. A. Philpott, Jr.	554,766	Feb. 18	1708	401	74	857
Clutch. Electrically-controlled	F. A. Weller	559,240	Apr. 28	3090	746	75	632
Clutch for card-feeding machines	C. H. Woodbury	555,240	Mar. 3	586	140	74	1237
Clutch for card-feeding machines	J. H. Woodbury	571,963	Nov. 24	2728	645	77	1209
Clutch. Friction	G. A. Anderson	572,238	Dec. 1	254	61	77	1327
Clutch. Friction	G. A. Armington	562,165	June 16	1954	474	75	1782
Clutch. Friction	S. Brown	572,957	Dec. 15	1531	366	77	1607
Clutch. Friction	F. P. Canfield	560,470	May 19	2065	471	75	1130
Clutch. Friction	J. M. Dodge	554,583	Feb. 11	1382	325	74	779
Clutch. Friction	W. Esty	566,508	Aug. 25	2841	691	76	1203
Clutch. Friction	J. S. Freese	559,972	May 12	1140	254	75	913
Clutch. Friction	A. Harvey	563,275	July 7	69	17	76	15
Clutch. Friction	T. T. Heath and A. N. Verdin	553,983	Feb. 4	329	72	74	565
Clutch. Friction	G. N. Hinchman	560,714	May 26	2534	582	75	1233
Clutch. Friction	F. G. Hobart	561,940	June 9	1565	379	75	1691
Clutch. Friction	L. M. Johnston	572,205	Dec. 1	187	46	77	1314
Clutch. Friction	G. W. King and H. J. Barnhart	558,691	Apr. 21	2075	502	75	424
Clutch. Friction	H. McLeod	573,689	Dec. 22	2892	683	77	1880
Clutch. Friction	S. N. Mighell	553,196	Jan. 14	1269	312	74	256
Clutch. Friction	C. S. Mott	565,016	Aug. 4	91	21	76	634
Clutch. Friction	M. O. Reeves	565,691	Aug. 11	1361	331	76	890
Clutch. Friction	A. C. Rice	559,064	Apr. 28	2717	660	75	561
Clutch. Friction	I. E. Storey	563,989	July 14	1322	309	76	261
Clutch. Friction	A. L. Sweet	568,006	Sept. 22	2219	536	76	1736
Clutch. Friction	T. H. Worrell and A. Lesperance	559,558	May 5	361	87	75	753
Clutch. Machinery	J. S. Beeman	558,030	Apr. 14	939	232	75	194
Clutch mechanism	L. E. Whiton	564,417	July 21	2069	484	76	413
Clutch mechanism. Fluid-controlled	D. H. Church	555,036	Feb. 18	2185	520	74	944
Clutch or governor. Automatic	H. L. Howe	567,393	Sept. 8	1179	282	76	1511
Clutch. Safety driving	D. E. Barnard	565,415	Aug. 4	836	197	76	772
Coach and car step	F. A. Taylor, P. W. Farrell, and W. S. Quebe	565,645	Aug. 11	1289	311	76	875
Coach-step	C. E. Berger	558,763	Apr. 21	2192	528	75	445
Coal and rock drilling machine	A. J. Cooper	565,840	Aug. 11	1623	397	76	936
Coal and wood box	N. Larson	564,382	July 21	2011	472	76	401
Coal. Apparatus for separating sulfur from	I. M. Kelley	572,548	Dec. 8	801	192	77	1440
Coal-crusher	S. Evans and F. J. Morgan	559,272	Apr. 28	3143	760	75	641

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Coal crushing and breaking rolls.....	W. B. Culver	571,264	Nov. 10	1502	354 355	77	946
Coal-cutter. Electric	I. E. Storey	555,832	Mar. 3	569	137 138	74	1234
Coal cutting and drilling machine. Combined	S. Raybould	573,237	Dec. 15	2025	485	77	1701
Coal-cutting or like machine	F. Hurd	556,985	Mar. 24	2670	627	74	1678
Coal-cutting or like machine	F. Hurd	556,986	Mar. 24	2672	628 629 630	74	1679
Coal-delivery. Automatic	C. S. C. Rock	553,075	Jan. 14	1074	261	74	215
Coal-drilling machine	W. C. Johnson	574,368	Dec. 29	4144	984	77	2124
Coal-dust-firing apparatus	C. Wegener	554,327	Feb. 11	946	218 219 220	74	695
Coal elevating, transporting, and discharging apparatus.	O. Johnson	559,852	May 12	912	203 204	75	868
Coal-handling apparatus	J. M. Dodge	564,058	July 14	1453	339	76	285
Coal-hole cover. Safety	H. M. Carpenter	559,164	Apr. 28	2936	709	75	603
Coal. Hopper for charging	D. McDonald	559,731	May 5	637	153	75	803
Coal-jiggling apparatus	E. B. Cox	556,739	Mar. 24	2251	526	74	1600
Coal-jigs, &c. Means for operating gates of	T. E. Smith	574,228	Dec. 29	3915	932	77	2081
Coal-lifting implement	O. P. Fitzgerald, Jr., and J. R. Thomas.	567,087	Sept. 1	629	146	76	1402
Coal, &c. Machine for handling and distributing	R. Thew	553,082	Jan. 14	1082	264 265	74	217
Coal or ore washer	R. Boericke	555,920	Mar. 10	746	179 180	74	12-9
Coal or rock drilling machine	J. N. Southwick and A. Walker	563,087	June 30	3590	860	75	2129
Coal-piling apparatus	J. H. Mitchell	562,409	June 23	2352	575	75	1873
Coal, rock, &c. Device for splitting or breaking down	W. A. McKinlay	557,143	Mar. 31	2949	705 706	74	1757
Coal-receptacle and ash-sifter	A. J. Smith	566,630	Aug. 25	3012	736	76	1238
Coal-screen	F. H. Symons	557,172	Mar. 31	3002	716	74	1766
Coal-screen	B. E. Wightman	566,260	Aug. 18	2356	577	76	1098
Coal-separator	J. R. Richardson	555,185	Feb. 25	2458	582	74	1013
Coal-separator	C. W. Ziegler	570,781	Nov. 3	661	151 152	77	760
Coal-shovel and ash-sifter. Combined	T. B. Sorenson	571,205	Nov. 10	1400	327	77	927
Coal-storage plant	J. H. Mitchell	562,408	June 23	2351	574 575	75	1873
Coal-tipple	T. B. De Armit	555,365	Feb. 25	2782	652	74	1073
Coal unloading, storing, and reloading mechanism	W. A. Lathrop	572,900	Dec. 8	1404	340	77	1566
Coal-washer	W. L. Scaife	570,232	Oct. 27	2666	634	77	544
Coaling-tub	C. W. Hunt	559,384	May 5	59	13	75	691
Coat and hat hanger and lock. Combined	P. J. Piatti	570,228	Oct. 27	2656	630	77	542
Coat and hat holder	J. F. Main	569,422	Oct. 13	1215	285	77	246
Coat and hat hook	J. F. Bearinger, Jr.	566,962	Sept. 1	388	90	76	1356
Coat and hat rack	W. H. Tucker	565,525	Aug. 11	1072	257	76	834
Coat and pants hanger	H. J. Flegal	566,509	Aug. 25	2845	692	76	1204
Coat-collar adjuster	C. P. Perkins	565,792	Aug. 11	1542	375	76	923
Coat-hanger	H. J. Flegal	566,510	Aug. 25	2846	692	76	1204
Coat-hanger	J. Frankel	559,447	May 5	176	39	75	715
Coat-hanger	G. L. Grier	568,901	Oct. 6	314	72	77	60
Coat-lock	G. K. Florer	566,852	Sept. 1	199	45	76	1321
Coats, gloves, &c. Fastening for	D. A. Carpenter	568,520	Sept. 29	3152	759	76	1923
Coating apparatus. Metal	W. P. Thomas and R. Davies	566,880	Sept. 1	244	56	76	1329
Coating metal by electrolysis	H. Alexander	563,723	July 14	829	.....	76	171
Cock	J. Dewrance and G. H. Wall	567,584	Sept. 15	1496	358	76	1586
Cock and coupling for barrels, &c.	E. M. Hewson	568,572	Sept. 29	3240	780	76	1941
Cock. Angle	T. A. Outhouse	571,201	Nov. 10	1394	326	77	926
Cock. Angle	W. J. Waldron	566,636	Aug. 25	3018	738	76	1240
Cock attachment. Angle	E. B. Stoner	552,793	Jan. 7	543	132	74	102
Cock. Automatic safety angle	J. W. Winters	571,735	Nov. 17	2315	553	77	1111
Cock. Ball	C. Birkery	559,884	May 12	984	219	75	882
Cock. Ball	O. H. Jones	564,249	July 21	1779	417	76	361
Cock-box cover. Stop	J. P. Mern	563,239	June 30	3841	920	75	2176
Cock boxes and frame therefor. Cover for stop	H. F. Rebmann	572,217	Dec. 1	214	52	77	1318
Cock. Cylinder	J. F. McCoy	572,211	Dec. 1	207	51	77	1317
Cock. Electrical gas	H. L. Tyler	556,386	Mar. 17	1647	385	74	1470
Cock. Float-operated	L. Lipp	557,840	Apr. 7	565	136	75	106
Cock for compressed gases. Shut-off and regulating	W. F. MacLachlan	553,861	Feb. 4	87	18	74	521
Cock for water-service systems. Stop	J. Slaymaker	569,304	Oct. 13	1020	243	77	210
Cock. Gage	T. F. Morrin and J. Harlin	560,520	May 19	2139	489	75	1144
Cock. Gas	T. H. Foote	565,730	Aug. 11	1439	351	76	903
Cock. Gas	E. Lindner	566,590	Aug. 25	2956	722	76	1227
Cock lock. Stop	A. T. Patrick	566,932	Sept. 1	340	79	76	1347
Cock operator for locomotives. Cylinder	L. D. McDonald	560,915	May 26	2900	665	75	1303
Cock or faucet. Self-closing	W. Bunting, Jr.	556,133	Mar. 10	1151	270	74	1362
Cock or globe-valve. Automatic cylinder	J. S. Dodge	560,695	May 26	2506	575	75	1228
Cock. Plug	W. C. Jennings	556,889	Mar. 24	2512	592	74	1650
Cock. Reversible stop and waste	J. Totham	568,181	Sept. 22	2551	614	76	1798
Cock safety attachment. Gas	C. B. Duffy	564,980	Aug. 4	37	8	76	624
Cock. Sea	P. T. Perkins	552,702	Apr. 21	2093	505	75	427
Cock. Self-closing safety gas	J. Clark	552,704	Jan. 7	356	93	74	69
Cock. Stop and waste	F. Burmeister	562,569	June 23	2638	639	75	1926
Cock. Stop and waste	S. M. Friede	569,967	Oct. 20	2194	521	77	440
Cock. Stop and waste	J. L. Minor and W. Krauss	560,519	May 19	2138	489	75	1143
Cock. Stop and waste	F. A. Radcliffe	555,123	Feb. 25	2359	561	74	993
Cock. Stop and waste	A. and H. Steinhauer	574,079	Dec. 29	3590	858	77	2024
Cock. Syrup-fountain	C. H. Duffield	552,518	Jan. 7	27	8, 9	74	8
Cock. Syrup-fountain	C. H. Duffield	552,632	Jan. 7	219	61	74	43
Cock. Waste	I. N. Glauber	564,014	July 14	1364	318	76	269
Cocks, &c. Fastening and stop for gas	J. A. Hamilton	559,173	Apr. 28	2952	713	75	606

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Cocks or taps. Machine for grinding	L. D. Biddle	570,431	Oct. 27	3071	{ 728 729 }	77	618
Cocoa. Preparing	G. A. Pieper	571,238	Nov. 10	1459	{ 729 730 }	77	938
Coffee-berry-hulling machine	A. D. Gomez	577,467	Sept. 8	1296	314	76	1533
Coffee-berry-hulling machine	A. S. Perez	568,144	Sept. 22	2492	{ 599 600 }	76	1786
Coffee-making machine	J. Denk	555,500	Mar. 3	29	7	74	1135
Coffee. Method of and apparatus for drying	A. F. Ramos	563,801	July 14	961	229	76	197
Coffee-mill-actuating mechanism	J. B. Frem	564,606	July 28	2402	566	76	490
Coffee-mill holder	E. J. Lewis	558,229	Apr. 14	1376	336	75	278
Coffee or tea percolator	V. M. Hawley	567,387	Sept. 8	1171	280	76	1509
Coffee or tea pot	H. L. Richardson	572,909	Dec. 8	1423	343	77	1572
Coffee or tea service utensil. Individual.	A. F. Stephens and R. T. Connell	569,678	Oct. 20	1682	398	77	349
Coffee-percolator	C. C. Morian	561,515	June 2	802	196	75	1532
Coffee-pot	C. H. Chase	573,440	Dec. 22	2435	577	77	1793
Coffee-pot	E. J. Hepburn	567,235	Sept. 8	871	208	76	1457
Coffee-pot	H. Nicholson	555,394	Feb. 25	2830	{ 666 667 }	74	1082
Coffee-pot, &c.	R. Parker	558,515	Apr. 21	1778	432	75	370
Coffee-roaster	J. D. Smith	554,094	Feb. 4	534	119	74	602
Coffee-roaster	B. Tupholme	558,123	Apr. 14	1097	{ 268 269 }	75	225
Coffee, tea, &c. Apparatus for obtaining infusions of	K. Mezger	559,339	Apr. 28	3259	787	75	663
Coffin	H. M. Handsby	555,807	Mar. 3	529	128	74	1226
Coffin	M. Karnicki	572,118	Dec. 1	42	10, 11	77	1286
Coffin-fastener	L. G. Kregel	562,622	June 23	2725	661	75	1942
Coffin-handle	S. B. Campbell	565,403	Aug. 4	818	193	76	768
Coffin-handle	W. A. Chapman	558,897	Apr. 21	2423	590	75	489
Coffin-handle	W. Klein	559,598	May 12	1019	225	75	888
Coffin-truck, embalming-table, &c. Combined.	W. F. Shaw	573,303	Dec. 15	2167	517	77	1726
Coiled spring	L. Erikson	568,670	Sept. 29	3429	820	76	1977
Coiler	J. T. Meats and J. S. Eaton	572,433	Dec. 1	617	146	77	1395
Coin-assorting apparatus	H. H. Hanmer	566,453	Aug. 25	2758	{ 669 670 671 }	76	1188
Coin-cases. Manufacture of	R. L. Chope	559,263	Apr. 28	3129	{ 756 757 }	75	639
Coin-changing device	A. L. Levin	569,214	Oct. 13	856	202	77	179
Coin-controlled apparatus	J. S. Barcus	572,496	Dec. 1	712	{ 170 171 }	77	1413
Coin-controlled apparatus	M. Barnes	567,761	Sept. 15	1787	429	76	1642
Coin-controlled apparatus	A. R. Brown and E. C. J. Devis	553,204	Jan. 14	1308	317	74	259
Coin-controlled apparatus. Coin-detector for	A. L. Pratt	560,927	May 26	2926	671	75	1307
Coin-controlled machine	J. B. Carr	562,280	June 16	2137	{ 520 521 }	75	1816
Coin-controlled machine	E. Lohsand	559,534	May 5	317	76, 77	75	744
Coin-delivery apparatus	E. J. Brandt	556,131	Mar. 10	1149	270	74	1362
Coin-freed apparatus	G. Hirschfeld	552,529	Jan. 7	43	13, 14	74	11
Coin-freed apparatus	C. Ingrey	567,239	Sept. 8	876	{ 209 210 }	76	1458
Coin-freed apparatus for delivering tickets, sweet-meats, &c.	J. Fotheringham	570,849	Nov. 3	783	{ 179 180 }	77	784
Coin-holder	F. B. Wagner	571,179	Nov. 10	1359	317	77	919
Coin-holder	C. A. Webster	573,251	Dec. 15	2047	490	77	1705
Coin holder or clip	W. J. Stanton, Jr.	559,758	May 5	706	167	75	815
Coin-holder. Pocket	P. Seiler	569,675	Oct. 20	1679	397	77	348
Coin received and delivered. Mechanism for registering and recording	P. E. Daniels	560,844	May 26	2765	{ 634 635 }	75	1278
Coin-receptacle	J. Brenzinger and E. F. Klée	572,691	Dec. 8	1060	258	77	1500
Coin-shooting machine	G. S. Smith, G. Haydon, and F. H. Urry.	553,078	Jan. 14	1077	263	74	216
Coining-press	O. Smith	574,227	Dec. 29	3911	{ 929 930 931 }	77	2080
Coke drawing, cleaning, sprinkling, and loading machine. Combined	J. A. Montgomery	563,781	July 14	922	{ 922 921 }	76	189
Coke-oven	F. L. Slocum	568,074	Sept. 22	2356	569	76	1760
Coke-oven	F. L. Slocum	568,075	Sept. 22	2359	570	76	1760
Coke-oven	N. B. Taylor and J. C. Dias	561,922	June 9	1530	370	75	1684
Colcothar. Manufacture of	M. N. d'Andria	564,731	July 28	2611	.....	76	539
Cold-storage apparatus	W. B. McCrosky	561,910	June 9	1510	365	75	1680
Collapsible boat	J. H. Hatchings	568,255	Sept. 22	2675	641	76	1820
Collapsible box	T. F. W. Schmidt	571,691	Nov. 17	2215	533	77	1092
Collapsible tube	H. E. Van Horne	558,126	Apr. 14	1104	269	75	226
Collar	G. S. Elliott	557,062	Mar. 24	2812	669	74	1706
Collar	A. D. Fenwick	555,943	Mar. 10	791	190	74	1297
Collar	H. S. Kennedy	552,962	Jan. 14	883	214	74	179
Collar	J. K. P. Pine	552,619	Jan. 7	199	55	74	39
Collar. Adjustable	J. Atkinson	569,534	Oct. 13	1401	331	77	280
Collar and hame. Combination horse	J. Reimann	568,208	Sept. 22	2593	624	76	1805
Collar and pad. Horse	F. C. Krieger	565,757	Aug. 11	1487	363	76	912
Collar, bow, and bosom-front. Combined	J. M. Weissman	559,425	May 5	143	30	75	708
Collar-creasing machine	C. L. Burges	557,766	Apr. 7	442	104	75	83
Collar-fastener. Horse	J. C. Weinman	564,671	July 28	2503	592	76	510
Collar-folding machine	J. A. Anderson	572,239	Dec. 1	255	61	77	1327
Collar. Horse	C. E. Akeley	556,953	Mar. 24	2615	{ 614 615 }	74	1668
Collar. Horse	H. Clarke	559,072	Apr. 28	2731	664	75	564
Collar. Horse	E. Garnier and S. J. Prescott	555,087	Feb. 25	2293	547	74	980
Collar. Horse	R. G. Lehman	564,089	July 14	1505	352	76	295
Collar. Horse	J. B. Mathewson	553,350	Jan. 21	1568	374	74	321
Collar. Horse	J. H. and T. G. Threlkeld	557,722	Apr. 7	350	82	75	67
Collar. Horse	A. D. Ulrich	560,333	May 19	1823	415	75	1087
Collar. Horse	J. A. Weider	570,887	Nov. 3	859	200	77	801

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Collar. Horse.....	O. J. Westfall.....	555,545	Mar. 3	104	23	74	1150
Collar-machine.....	W. B. Shadburn.....	572,912	Dec. 8	1427	344	77	1573
Collar, necktie, and stud fastener.....	T. McDermott and F. P. McNulty.....	557,141	Mar. 31	2946	705	74	1756
Collar-pad.....	R. C. Van Derveer.....	569,363	Oct. 13	1117	266	77	230
Collar-pad or bridge-support for harness.....	C. Bartlett.....	568,890	Oct. 6	300	69	77	58
Collar-point-turning machine.....	A. E. Grant.....	559,279	Apr. 28	3154	762	75	643
Collar. Self-adjusting horse.....	J. L. Torrey.....	568,287	Oct. 6	295	68	77	57
Collar shaper. Turn-down.....	J. R. Walsh.....	571,606	Nov. 17	2082	500	77	1066
Collar. Split slip.....	J. B. Johnson.....	555,512	Mar. 3	49	11	74	1139
Collars and cuffs. Machine for folding and pressing.....	A. D. Fenwick.....	563,950	July 14	1251	{ 293 294 295 }	76	247
Collars or cuffs. Clamping device for holding.....	C. Barker.....	568,712	Sept. 29	3498	837	76	1990
Collars. Tool for dampening fold-lines of.....	H. Barnes.....	555,490	Mar. 3	9	3	74	1132
Colloidion.....	G. Michaelis.....	556,017	Mar. 10	933	.....	74	1324
Colloids. Preparing soluble.....	E. J. Mills.....	569,112	Oct. 6	674	.....	77	129
Color-chart.....	L. W. Yaggy.....	556,077	Mar. 10	1054	{ 251 252 253 }	74	1344
Color classing and designing for manufacturing textile goods. Apparatus for.....	W. Littlewood.....	553,007	Jan. 14	953	{ 230 231 }	74	193
Color-exhibiting device. Interchangeable.....	J. E. Patton, Jr.....	572,216	Dec. 1	213	52	77	1318
Color-mill.....	J. Schmidt.....	557,150	Mar. 31	2964	709	74	1759
Color specimens to sample-sheets. Apparatus for attaching.....	C. D. Bradt.....	556,175	Mar. 10	1231	{ 287 288 }	74	1377
Colors. Moist.....	A. Sartorius.....	574,220	Dec. 29	3896	.....	77	2077
Colors on fiber. Producing azo.....	F. Storck.....	569,392	Oct. 13	1165	.....	77	238
Colors, &c. Process of and apparatus for making tubes for artists'.....	H. Goodwin.....	570,728	Nov. 3	570	131	77	743
Coloring fabrics. Composition of matter for.....	M. A. Stevens.....	562,045	June 16	1750	.....	75	1745
Coloring-matter. Blue.....	A. Herrmann.....	567,567	Sept. 8	1454	.....	76	1563
Coloring-matter. Yellow.....	R. Nietzki.....	555,658	Mar. 3	304	.....	74	1184
Coloring or coating paper, &c. Machine for.....	L. Dejonge, Jr.....	557,056	Mar. 24	2802	{ 666 667 }	74	1704
Colter attachment.....	S. A. Miles.....	556,360	Mar. 17	1607	375	74	1462
Colter for plows. Tilting.....	G. A. Jackson, D. Perrine, and R. P. Matthews.....	556,754	Mar. 24	2288	538	74	1607
Colter-holder.....	F. M. Cook.....	571,189	Nov. 10	1376	321	77	923
Column.....	P. Johnson.....	573,151	Dec. 15	1874	451	77	1674
Columns. Means for sinking wall or other supporting Comb.....	R. S. Gillespie.....	573,404	Dec. 15	2322	555	77	1755
Comb.....	See Curling-comb. Hair-cutter's comb.						
Comb.....	W. H. Noyes.....	565,389	Aug. 4	794	189	76	764
Comb.....	H. Traun.....	564,460	July 21	2145	501	76	425
Comb.....	H. M. Wilson.....	563,112	June 30	3629	870	75	2137
Comb-cleaner.....	G. L. Reenstierna.....	562,169	Sept. 22	2530	609	76	1794
Comb dabbng mechanism.....	T. W. Hickey.....	570,095	Oct. 27	2427	576	77	498
Combng fleece or hair of tanned pelts or skins. Machine for.....	B. C. Haskell.....	566,454	Aug. 25	2760	671	76	1188
Combng-machine.....	A. Gunerman and G. Schacht.....	554,265	Feb. 11	839	192	74	675
Combng-machine.....	W. Whalley, A. Clegg, T. W. Benson, W. Parratt, and J. Robinson.....	573,740	Dec. 22	2979	705	77	1897
Combngmachines. Automatic stop-motion for wool.....	F. G. Berwick and S. Hadfield.....	564,912	July 28	2905	696	76	583
Combination-chair.....	G. Salquist.....	562,920	June 30	3262	{ 787 788 }	75	2063
Combination-lock.....	D. J. Cable.....	573,136	Dec. 15	1850	446	77	1669
Combination-lock.....	J. J. Deal.....	552,296	Jan. 14	769	187	74	158
Combination-lock.....	I. Iverson.....	563,039	June 30	3482	837	75	2109
Combination-lock.....	J. E. Lockwood.....	567,146	Sept. 8	736	172	76	1433
Combination-lock.....	H. E. Mooman.....	565,363	Aug. 4	751	179	76	756
Combination-lock.....	E. F. Price.....	563,061	June 30	3516	844	75	2115
Combination-lock.....	J. Richardson.....	567,795	Oct. 6	140	34	77	29
Combination-lock.....	E. Stockwell.....	567,698	Sept. 15	1679	{ 404 405 }	76	1621
Combination-table.....	C. Whitford.....	572,391	Dec. 1	555	131	77	1384
Combustion. Apparatus for producing.....	P. J. Schlicht.....	556,281	Mar. 10	1457	340	74	1418
Combustion. Apparatus for producing.....	P. J. Schlicht.....	556,282	Mar. 10	1458	340	74	1419
Combustion. Apparatus for producing.....	P. J. Schlicht.....	556,283	Mar. 10	1461	340	74	1419
Combustion. Apparatus for producing.....	P. J. Schlicht.....	556,284	Mar. 10	1463	341	74	1420
Combustion. Art of and apparatus for producing.....	P. J. Schlicht.....	556,280	Mar. 10	1451	339	74	1417
Combustion. Attachment for application to apparatus for producing.....	P. J. Schlicht.....	556,285	Mar. 10	1466	341	74	1420
Combustion. Attachment for application to apparatus for producing.....	P. J. Schlicht.....	556,286	Mar. 10	1469	342	74	1421
Commode.....	E. L. Chalke.....	574,134	Dec. 29	3694	880	77	2012
Commode.....	F. Geisman.....	557,067	Mar. 24	2818	671	74	1708
Commode.....	E. W. Jenkins.....	569,206	Oct. 13	839	197	77	176
Commode.....	C. G. Mann.....	571,620	Nov. 17	2104	505	77	1071
Commode.....	W. H. Stoltz.....	559,109	Apr. 28	2802	678	75	580
Communion apparatus.....	A. Ballard and J. M. Harper.....	561,854	June 9	1421	342	75	1663
Communion-service. Sanitary.....	C. Forbes.....	553,846	Feb. 4	59	12, 13	74	516
Commutator.....	F. J. Haerer and C. L. Gikeleiter.....	567,745	Sept. 15	1760	{ 422 423 }	76	1637
Commutator.....	D. P. Thomson and A. R. Goranson.....	558,120	Apr. 14	1094	267	75	224
Commutator-brush.....	O. P. Loomis.....	554,369	Feb. 11	1015	235	74	708
Commutator-brush.....	W. H. Morgan.....	560,737	May 26	2569	591	75	1240
Commutator-brush.....	A. K. Warren.....	571,420	Nov. 17	1758	419	77	1008
Commutator-brush holder.....	R. Hirsch.....	557,678	Apr. 7	278	67	75	53
Commutator. Current-straightening.....	C. Pollak.....	558,983	Apr. 28	2577	{ 626 627 }	75	535
Commutator for high-voltage dynamos.....	A. J. Oehring and H. H. Wait.....	557,218	Mar. 31	3099	743	74	1780
Commutator for magneto-electric machines.....	J. C. Henry.....	554,063	Feb. 4	469	105	74	591
Compass-box reflector.....	A. Mitchell.....	565,011	Aug. 4	83	20	76	633
Compass. Drafting.....	J. W. Kaiser.....	559,177	Apr. 28	2959	714	75	608

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g	Vol.	Page.
Compass. Drawing.....	A. K. Cross.....	555,803	Mar. 3	524	127	74	1225
Compass. Mariner's.....	D. Baker.....	568,227	Sept. 22	2631	632	76	1813
Compasses and logs. Electric recording instrument for ships'.....	C. L. Jaeger.....	556,987	Mar. 24	2676	631	74	1680
Compasses. Machine for holding, lighting, and keeping in position mariners'.....	E. B. Rockwell.....	565,636	Aug. 11	1259	304	76	869
Composition of matter.....	E. C. Brice.....	555,205	Feb. 25	2500	.....	74	1020
Composition of matter.....	E. C. Brice.....	555,425	Feb. 25	2889	.....	74	1093
Composition of matter.....	T. Cotter and T. H. Walker.....	569,859	Oct. 20	2008	.....	77	406
Composition of matter.....	F. R. Hall.....	571,117	Nov. 10	1264	.....	77	901
Composition of matter.....	R. H. Martin.....	569,759	Oct. 20	1847	.....	77	376
Composition of matter.....	S. Le Sieur.....	572,645	Dec. 8	978	.....	77	1484
Composition of matter for building purposes.....	L. Woltersdorf and G. S. Angus.....	566,833	Sept. 1	162	.....	76	1313
Composition of matter for making and sealing joints between pipes, &c.....	J. J. Murphy.....	560,321	May 10	1801	410	75	1083
Compound engine.....	H. D. Dunbar.....	565,335	Aug. 4	705	169	76	746
Compound engine.....	E. W. Harden.....	553,463	Jan. 21	1751	{ 417 418 }	74	356
Compound engine.....	R. C. Smith.....	565,697	Aug. 11	1373	335	76	892
Compound engine.....	G. S. Strong.....	559,502	May 5	265	63	75	733
Compound pipe.....	G. W. Harrington.....	562,359	June 16	2278	553	75	1843
Compound pipe.....	E. C. Storow.....	562,205	June 16	2020	487	75	1795
Compound tube.....	G. T. Warwick.....	574,184	Dec. 29	3814	911	77	2062
Computing instrument.....	J. Michaelson.....	556,761	Mar. 24	2303	{ 541 542 542 }	74	1610
Computing-machine.....	D. E. Felt.....	568,020	Sept. 22	2246	{ 543 544 }	76	1741
Concentrator.....	J. Frey.....	552,995	Jan. 14	935	{ 226 227 }	74	189
Concentrator.....	P. H. McGowan.....	566,607	Aug. 25	2981	728	76	1232
Concentrator.....	W. H. Rockfellow.....	563,805	July 14	971	231	76	198
Concentrator.....	R. D. Woodward and W. C. Brown.....	566,834	Sept. 1	162	38	76	1313
Concentrator and amalgamator.....	J. B. Rossman.....	563,806	July 14	972	231	76	198
Concrete tombstones. Composition for.....	J. D. Belcher and M. J. Hendley.....	567,562	Sept. 8	1443	.....	76	1560
Condenser.....	P. Dunlop.....	560,198	May 19	1570	{ 355 356 }	75	1044
Condenser.....	A. S. Goech.....	561,221	June 2	250	60, 61	75	1416
Condenser.....	G. A. Reichard.....	570,103	Oct. 27	2435	579	77	500
Condenser.....	J. D. Smith.....	572,834	Dec. 8	1315	315	77	1548
Condenser. Air-cooled.....	E. B. Caird and T. J. Rayner.....	563,655	July 7	696	164	76	131
Condenser and aerator. Steam.....	E. Rowe.....	554,539	Feb. 11	1304	307	74	763
Condenser and lint-cotton conveyer. Storage.....	W. A. Patterson.....	561,689	June 9	1118	266	75	1606
Condenser and lint-cotton conveyer. Storage.....	W. A. Patterson.....	562,338	June 16	2248	545	75	1837
Condenser and lint-cotton conveyer. Storage.....	J. S. Tennison.....	555,189	Feb. 25	2464	584	74	1014
Condenser. Steam.....	H. A. Wheeler.....	554,384	Feb. 11	1041	242	74	713
Condenser system.....	L. R. Alberger.....	565,586	Aug. 11	1178	284	76	854
Condenser. Vapor or steam.....	A. Hoberrecht.....	556,674	Mar. 17	2134	498	74	1561
Condensing tube. Surface.....	A. Hoberrecht.....	556,630	Mar. 17	2074	485	74	1549
Condiment-holder.....	J. Frye.....	553,580	Jan. 28	1968	467	74	412
Conductor's hand-clip and check-case.....	L. R. Thomas.....	565,051	Aug. 4	149	35	76	645
Conductors. Making underground.....	J. H. Croskey and J. Locke.....	568,298	Sept. 22	2741	{ 658 659 }	76	1835
Conduit-tube.....	E. T. Greenfield.....	570,169	Oct. 27	2550	606	77	522
Conduit. Underground.....	E. T. Greenfield.....	570,168	Oct. 27	2547	{ 605 606 }	77	522
Conduits. Making interior.....	E. Lavens.....	570,256	Oct. 27	2713	645	77	553
Conduits or pipes. Apparatus for threading.....	T. J. Cope.....	563,360	July 7	215	48	76	44
Cone-shaped tightening appliance.....	D. A. Schröppel.....	558,744	Apr. 21	2161	521	75	440
Confection-molding machine.....	C. H. Grebenstein.....	568,481	Sept. 29	3051	{ 733 734 735 }	76	1906
Confectioner's beating and mixing machine.....	J. Werner.....	561,298	June 2	413	102	75	1450
Confectionery-machine.....	S. J. Hicks.....	572,423	Dec. 1	603	143	77	1392
Confectionery-machine.....	S. J. Hicks.....	573,463	Dec. 22	2476	587	77	1801
Confectionery-machine.....	J. Smith.....	563,330	July 7	174	39	76	35
Confectionery. Machine for coating.....	W. B. Phinney.....	557,426	Mar. 31	3472	{ 832 833 }	74	1851
Confessional. Folding portable.....	A. S. Siebenfoercher.....	570,512	Nov. 3	135	33	77	663
Conjuring apparatus.....	W. Hanlon.....	554,662	Feb. 18	1567	369	74	830
Connecting rod.....	A. F. Champlin.....	560,837	May 26	2743	629	75	1274
Connecting-rod.....	J. W. Pridmore.....	554,727	Feb. 18	1631	385	74	842
Connecting-rods, &c. Effecting automatic adjustment of.....	J. H. Dales.....	578,666	Sept. 29	3425	819	76	1976
Contact device.....	F. W. N. E. Hayn.....	567,899	Sept. 15	2013	483	76	1687
Contact device. Traveling.....	M. D. Law.....	555,958	Mar. 10	816	195	74	1302
Contact-switch. Multiple.....	E. H. Wright.....	558,750	Apr. 21	2170	{ 522 523 }	75	441
Converter bottom. Bessemer.....	W. H. Haws.....	556,539	Mar. 17	1937	452	74	1524
Converter. Pneumatic.....	C. S. Price.....	554,457	Feb. 11	1175	{ 274 275 }	74	739
Convertible chair.....	L. A. Chichester.....	571,088	Nov. 10	1112	260	77	874
Convertible chair.....	J. G. McCaffrey.....	564,253	July 21	1790	{ 419 420 }	76	363
Convertible chair.....	P. M. Shotwell.....	560,547	May 19	2189	499	75	1152
Conveyer.....	J. M. Dodge.....	557,058	Mar. 24	2808	668	74	1705
Conveyer.....	J. M. Dodge.....	557,059	Mar. 24	2809	668	74	1706
Conveyer.....	J. M. Dodge.....	559,370	May 5	33	8	75	687
Conveyer.....	J. M. Dodge.....	559,371	May 5	36	9	75	687
Conveyer.....	J. M. Dodge. (Reissue).....	11,548	June 23	3009	726	75	1997
Conveyer.....	J. M. Dodge. (Reissue).....	11,549	June 23	3010	726	75	1998
Conveyer.....	J. M. Dodge.....	565,334	Aug. 4	703	{ 168 169 }	76	746
Conveyer.....	J. M. Dodge.....	571,347	Nov. 17	1641	389	77	988

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Conveyer	E. R. Draver	566,066	Aug. 18	2042	497	76	1033
Conveyer	F. L. Furbush	561,162	June 2	154	40	75	1396
Conveyer	J. Guller, Jr.	561,582	June 9	936	224	75	1572
Conveyer	C. W. Levalley	573,988	Dec. 29	3434	823	77	1994
Conveyer	F. H. Richards	568,583	Sept. 29	3259	783 784	76	1945
Conveyer	G. Sieurin	562,931	June 30	3287	794	75	2069
Conveyer	M. M. Suppes	569,681	Oct. 20	1687	400	77	349
Conveyer and distributor	J. F. Dornfeld	565,068	Aug. 4	179	43	76	650
Conveyer. Bucket	A. J. Frith	570,251	Oct. 27	2699	642 643	77	549
Conveyer. Endless	F. H. Richards	568,586	Sept. 29	3271	786	76	1946
Conveyer. Endless bucket	T. L. Marvel	567,683	Sept. 15	1658	399	76	1618
Conveyer. Endless-chain	C. W. Hunt	552,664	Jan. 7	284	77	74	55
Conveyer for ore, &c.	T. W. Robinson	560,232	May 19	1637	372 373	75	1055
Conveying apparatus	J. G. Delaney	555,080	Feb. 25	2284	544	74	978
Conveying apparatus	J. G. Delaney	561,973	June 16	1619	394	75	1721
Conveying apparatus	J. H. Dickinson	564,186	July 21	1689	395	76	343
Conveying apparatus	A. J. Frith	557,574	Apr. 7	85	21	75	18
Conveying apparatus	A. L. Le Grand	570,876	Nov. 3	831	193 194	77	794
Conveying apparatus	G. Miles	562,987	June 30	3372	811	75	2088
Conveying apparatus	T. S. Miller	561,334	June 2	479	121 122	75	1462
Conveying apparatus	T. S. Miller	574,039	Dec. 29	3521	840	77	2010
Conveying-machine	O. Gulbrandsen	553,403	Jan. 21	1650	395	74	337
Cooker	T. Van Kannel	556,787	Mar. 24	2347	553	74	1618
Cooker. Coffee	W. B. Lancaster	553,755	Jan. 28	2264	536	74	467
Cooker. Gas	G. Horn	572,486	Dec. 1	692	165 166	77	1410
Cooker. Portable	E. B. Chipman	553,776	Apr. 21	2214	533	75	449
Cooker. Rotary	C. B. Macy	560,808	May 26	2694	619	75	1264
Cooker. Steam	A. M. Amos	566,884	Sept. 1	249	57	76	1330
Cooker. Steam	A. J. Finlay and C. Wilson	565,340	Aug. 4	716	172	76	749
Cooker. Steam	G. A. Griffith	559,028	Apr. 28	2653	646	75	550
Cooker. Steam	J. W. Lee, Jr.	559,137	Apr. 28	2886	695	75	593
Cooker. Steam	T. C. Maddux	567,858	Sept. 15	1958	469	76	1675
Cooker. Steam	J. M. O'Neill	565,787	Aug. 11	1534	373	76	921
Cooker. Steam	A. N. Rooks	558,846	Apr. 21	2329	567	75	471
Cooking apparatus	W. E. Baxter	561,856	June 9	1427	343 344	75	1664
Cooking apparatus. Steam	W. C. Salmon	566,228	Aug. 18	2308	565	76	1089
Cooking-boiler	J. Mulligan	567,490	Sept. 8	1333	392	76	1540
Cooking device. Steam	C. L. Halsted	562,959	June 30	3361	809	75	2085
Cooking outfit. Camp	F. C. Wilson	555,990	Mar. 10	881	210	74	1315
Cooking utensil	G. W. Cross	557,256	Mar. 31	3170	761	74	1792
Cooking utensil	H. H. Erlam	554,996	Feb. 18	2115	503	74	932
Cooking utensil	E. Hartung	557,672	Apr. 7	269	65	75	51
Cooking utensil	G. Kuegler	559,899	May 12	1020	225 226	75	888
Cooking utensil	J. K. Parinton	573,291	Dec. 15	2135	512	77	1720
Cooking utensil	E. A. Sullivan	568,465	Sept. 29	3029	727	76	1903
Cooking utensil. Collapsible	E. G. Jennings	561,167	June 2	165	42	75	1398
Cooler:							
See Beer-cooler.	Syrup-cooler.						
Bottle-cooler.	Water-cooler.						
Milk-cooler.							
Cooling, condensing, and sterilizing apparatus. Combined	W. F. Fey	569,750	Oct. 20	1831	435	77	374
Coop. Chicken	J. P. Hazen	571,592	Nov. 17	2059	493	77	1062
Coop. Chicken	W. W. Mendenhall	569,295	Oct. 13	999	239	77	206
Coop. Poultry	W. T. S. Dickey	553,902	Feb. 4	180	38	74	538
Cop-tube core or spindle	O. Lever and W. S. Grundy	563,043	June 30	3490	898	75	2110
Copper. Apparatus for electrically working and welding	G. D. Burton	558,480	Apr. 21	1716	415	75	358
Copper from ores. Extracting	J. Douglas	563,143	June 30	3679		75	2146
Copper from ores. Extracting	J. Douglas	563,144	June 30	3680	881	75	2146
Copper. Hardening	J. Miller	566,462	Aug. 25	2774		76	1191
Copper. Reducing and refining	T. Roberts	568,700	Sept. 29	3480	832	76	1987
Copper silver bullion. Refining	F. Gutzkow	572,342	Dec. 1	447		77	1364
Copy book. Press	H. D. Honey	560,034	May 12	1260	283	75	934
Copy-holder	M. M. Benson	560,566	May 19	2218	507	75	1157
Copy-holder	L. E. Burton	556,575	Mar. 17	1988	465	74	1534
Copy-holder	W. R. Koller	555,249	Feb. 25	2574	604	74	1034
Copy-holder	G. W. Parker and E. L. Todd	553,292	Jan. 21	1472	354	74	303
Copy-holder	G. E. Smith and F. P. Garrison	556,650	Mar. 17	2100	491	74	1554
Copy-holder	A. A. Wilcox and E. C. Alderman	553,088	Jan. 14	1102	267	74	221
Copy-holder device	A. R. Cook	567,221	Sept. 8	848	201	76	1453
Copying-book attachment	J. W. Twyman	558,882	Apr. 21	2398	584	75	485
Copying book. Manifold	F. J. Wendt	556,484	Mar. 17	1824	424	74	1504
Copying. Dampening device for press	W. S. Hampshire	556,265	Mar. 10	1400	328	74	1409
Copying device	E. Terrell	553,630	Jan. 28	2043	484	74	426
Copying-machine	J. A. Browning and T. M. St. John	554,237	Feb. 11	789	181	74	665
Copying-machine	J. O. Deckert	553,805	Jan. 28	2339	557 558	74	481
Copying manifold sheet or book. Carbon	E. J. Perry. (Reissue)	11,547	June 9	1593	386	75	1696
Copying pad. Manifold	T. M. St. John	559,420	May 5	134	29	75	707
Copying press. Letter	O. W. Anderson	559,657	May 5	525	120	75	782
Copying press. Letter	E. B. Millert	555,653	Mar. 3	299	70	74	1183
Copying-press. Roiler	G. C. Houser	553,240	Jan. 21	1365	332	74	285
Copyist's line-indicator	C. L. Hastings	560,989	May 26	3008	693	75	1323
Copyist's line-marker	L. H. Miller	566,864	Sept. 1	218	50	76	1324
Cord-coupling	J. A. Smith	556,649	Mar. 17	2100	491	74	1554

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Cord-tension attachment	J. A. Kirwin	557,831	Apr. 7	551	133	75	103
Cordage and braiding machine spool-carrier	J. McCahey	563,296	July 7	106	25	76	22
Cordage and braiding machine stop-motion	J. McCahey	563,295	July 7	105	25	76	22
Cordage machine. Interlocked	G. McKay	553,623	Jan. 28	2036	481 482	74	425
Core-boring apparatus and means for gripping and raising cores.	F. H. Davis	555,640	Mar. 3	271	64	74	1179
Core or spool for balls of thread.	W. Clark	555,498	Mar. 3	25	7	74	1135
Core-press	M. P. Coleman	573,643	Dec. 22	2807	665	77	1866
Cores in molding-flasks. Anchoring	W. W. Lobdell and R. C. Tolmie	564,896	July 28	2884	691	76	579
Cores. Method of and apparatus for forming	S. J. Adams	569,986	Oct. 27	2225	528	77	459
Cork	H. H. Higham	566,683	Aug. 25	3099	757	76	1254
Cork-cabinet	G. M. Wilson and H. J. Neely	570,113	Oct. 27	2454	583	77	504
Cork cutting and grinding machine	H. S. Larsen	565,285	Aug. 4	627	149	76	731
Cork-cutting-machine feed mechanism	J. A. Lafrance	559,391	May 5	72	16	75	694
Cork-extractor	J. C. Blevney	557,546	Apr. 7	25	7	75	7
Cork-extractor	L. McMaster	562,645	June 23	2760	670	75	1949
Cork-extractor	E. S. Piper	556,554	Mar. 17	1957	456	74	1528
Cork-puller	E. Walker	557,734	Apr. 7	378	88	75	72
Corking-machine vent attachment	W. O. Vilter	573,426	Dec. 15	2397	571	77	1769
Corkscrew	W. R. Mand	561,016	May 26	3057	704	75	1333
Corkscrew-knife	C. H. Müller	573,475	Dec. 22	2498	592	77	1805
Cork-shaving machine	J. Hughes	558,177	Apr. 14	1186	289	75	241
Corn-cutter	J. M. Shively	559,754	May 5	689	164	75	812
Corn cutter and shocker	R. B. Franklin	558,059	Apr. 14	998	243 244	75	205
Corn cutter. Green.	N. C. McCown	564,832	July 28	2782	661	76	559
Corn, &c. Device for cutting	M. W. Pringle	569,725	Oct. 20	1785	424	77	366
Corn-drill	H. C. Ham	564,425	July 21	2088	488	76	415
Corn-fodder binder	P. E. May	566,333	Aug. 25	2488	610	76	1138
Corn-fork	W. J. Carley	568,237	Sept. 22	2652	635	76	1816
Corn from cobs. Machine for cutting green	W. Roberts	561,523	June 2	834	201	75	1527
Corn holder	G. Albrecht	557,935	Apr. 7	722	174	75	136
Corn holder	T. H. Boyce	556,330	Mar. 17	1546	361	74	1450
Corn holder	J. Eccles	557,762	Apr. 7	464	109	75	87
Corn holder	J. Huxtable	563,771	July 14	909	217	76	186
Corn holder	C. E. Malmquist	553,249	Jan. 21	1384	338	74	288
Corn holder	E. D. Son	565,369	Aug. 4	760	181	76	758
Corn holder. Hot.	J. D. Stanley	558,224	Apr. 14	1271	310	75	257
Corn-holding device.	C. W. Stebbins	567,284	Sept. 8	976	232	76	1475
Corn-husker	P. H. Conner and L. Clark	574,136	Dec. 29	3698	881 882	77	2043
Corn-husker	G. C. Janney	563,861	July 14	1086	256	76	218
Corn-husker	J. Willmann	573,561	Dec. 22	2644	628	77	1832
Corn-husker and stalk-cutter	G. C. Janney	568,981	Oct. 6	458	103 104 105	77	88
Corn-huskers and feed-cutters. Shredding device for	W. Gutenkunst	564,747	July 28	2643	628	76	535
Corn-husking and fodder-cutting machine	G. S. Gundersen	554,061	Feb. 4	465	104 105	74	590
Corn-husking and fodder-preparing machine	C. E. Curtiss	561,539	June 2	857	206	75	1532
Corn-husking attachment for feed-cutters	G. A. Stevens	561,450	June 2	695	171 172	75	1501
Corn-husking machine	L. S. Campbell and I. Woodring	552,606	Jan. 7	176	49, 50	74	35
Corn-husking machine	G. S. Gundersen	554,264	Feb. 11	837	192	74	674
Corn-husking machine	W. T. Irwin	566,181	Aug. 18	2235	546	76	1074
Corn-husking machine	L. W. Stevens and L. D. Swart	559,545	May 5	339	82	75	749
Corn-husking machine	L. D. Swart	559,548	May 5	344	83	75	750
Corn-husking machine	L. D. Swart	560,868	May 26	2820	646	75	1288
Corn-husking machine	L. D. Swart and O. Avery	559,547	May 5	343	83	75	749
Corn-husking machine	J. J. Woodman	573,500	Dec. 22	2541	602	77	1812
Corn-husking-machine feeder.	J. Bauer, Jr	571,148	Nov. 10	1319	307	77	912
Corn or bunion plaster	R. Borgerding	557,251	Mar. 31	3164	759	74	1791
Corn-popper	C. L. Cole	554,772	Feb. 18	1718	402	74	858
Corn-popper	E. M. Gilpatrick	556,922	Mar. 24	2570	605	74	1659
Corn-popper	R. O. Stutsman	564,230	July 21	1751	410	76	355
Corn-popper	R. O. Stutsman	564,231	July 21	1754	410	76	355
Corn product and making same.	M. W. Marsden	572,019	Nov. 24	2816	665	77	1224
Corn. Separating and collecting germs from	J. G. O'Neill	567,790	Sept. 15	1831	439	76	1650
Corn-sheller.	W. C. Rowe	565,926	Aug. 18	1794	437	76	989
Corn sheller and cleaner. Combined	J. B. Cornwall	572,084	Nov. 24	2963	696 697	77	1252
Corn-sheller attachment.	B. A. Kamp	557,585	Apr. 7	104	27	75	21
Corn-sheller feed.	G. W. Packer	553,315	Jan. 21	1507	361	74	310
Corn-shock binders. Compressor for	J. S. Binkley	565,668	Aug. 11	1322	319	76	882
Corn-shock-loading apparatus.	G. D. Foster	562,178	June 16	1974	478 479	75	1786
Corn-shock press. Portable	G. D. Foster	562,177	June 16	1970	478	75	1786
Corn-shocking machine	R. E. Witt	561,249	June 2	292	73, 74	75	1424
Corn-silking machine	J. C. McIntyre	566,465	Aug. 25	2777	675	76	1192
Corn-snapper and fodder-cutter	E. E. Chapman and S. S. Creider	554,241	Feb. 11	797	182 183	74	667
Cornstalk-cutter	J. B. Forbes	567,893	Sept. 15	2006	482	76	1685
Cornstalk-shredder and snapping-machine	J. D. Tracy and J. F. Platt	571,057	Nov. 10	1136	266	77	879
Corner-bead.	E. B. Marsh	562,783	June 23	3001	725	75	1995
Corner-iron. Sheet-metal	L. M. Devore	564,273	July 21	1831	428	76	369
Corner-staying machine	H. A. Inman	555,818	Mar. 3	551	132	74	1231
Cornet	H. G. Neely	571,011	Nov. 10	1067	249	77	865
Cornets, &c. Mouthpiece for.	B. Witmer	566,435	Aug. 25	2692	657	76	1177
Cornice-machine	G. Henderson	573,655	Dec. 22	2840	670	77	1870
Corroding-pot.	F. W. Butler	564,183	July 21	1684	394	76	342
Corroding-pot	H. M. Gabel	554,673	Feb. 18	1549	365	74	826
Corrugating and cutting tool	J. Blumer	570,218	Oct. 27	2639	625	77	538
Corrugating-machine	T. W. Graham	570,729	Nov. 3	572	131	77	743

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Corset	G. A. Close	561,202	June 2	230	55	75	1412
Corset	L. A. Downs	572,787	Dec. 8	1240	299	77	1533
Corset	T. S. Gilbert	557,379	Mar. 31	3387	814	74	1834
Corset	W. W. Gould	561,222	June 2	254	61	75	1417
Corset	A. Grassmann	567,027	Sept. 1	516	122	76	1380
Corset	C. W. Gregg	567,855	Sept. 15	1954	468	76	1674
Corset	M. E. Hall	555,157	Feb. 25	2411	572	74	1004
Corset	F. K. Hickok	570,398	Oct. 27	3013	713	77	607
Corset	N. F. T. Hunt	556,927	Mar. 24	2578	607	74	1661
Corset	F. M. Hunting	560,720	May 26	2544	585	75	1235
Corset	M. F. Linquist	564,020	July 14	1374	319	70	271
Corset	P. Lippmann	561,901	June 9	1499	362	75	1678
Corset	A. F. Loomer and C. B. Howd	562,839	June 30	3122	756	75	2035
Corset	J. Stone	557,713	Apr. 7	333	79	75	64
Corset	H. M. A. Thompson	564,414	July 21	2066	484	76	412
Corset	L. Weingarten and D. Grotta	557,460	Mar. 31	3522	842	74	1860
Corset	C. A. Williamson	560,556	May 19	2205	504	75	1155
Corset	M. Woodruff	561,464	June 2	718	176	75	1505
Corset	L. C. Wright	573,951	Dec. 29	3351	803	77	1980
Corset attachment	C. A. Williamson	560,557	May 19	2206	504	75	1155
Corset-busk splint	J. S. Metcalfe	553,865	Feb. 4	93	20	74	522
Corset-clasp	O. M. Chesney	561,761	June 9	1257	299	75	1633
Corset-clasp protector	J. C. Gilroy	553,611	Jan. 28	2020	478	74	422
Corset-cover	H. Freud	566,392	Aug. 25	2613	638	76	1162
Corset-fastening	O. F. E. Borchardt	554,648	Feb. 18	1509	354	74	817
Corset-fastening	W. A. Coles	561,866	June 9	1440	347	75	1667
Corset-fastening	L. Kidder	561,795	June 9	1319	315	75	1644
Corset-fastening	F. M. Lehnig	569,213	Oct. 13	855	201	77	179
Corset-lacing-stay	C. W. Gregg	561,392	June 2	581	145	75	1481
Corset-steel protector	A. A. Whipple	556,792	Mar. 24	2354	554	74	1619
Corset-steel reinforce	L. Leppert	559,458	May 5	194	42	75	719
Corset-stiffener	J. S. Crotty	573,570	Dec. 22	2655	631	77	1835
Corset-stiffener and making same	E. K. Warren and J. H. Hoiden	559,827	May 12	862	191	75	858
Corset-waist	V. H. Oberly	572,025	Nov. 24	2825	667	77	1226
Corset-waist	I. M. Rew	560,282	May 19	1733	394	75	1072
Cot. Folding	D. T. Helprin	572,422	Dec. 1	601	142	77	1392
Cot. Folding	H. C. Rogers	552,586	Jan. 7	142	39	74	28
Cot. Folding	E. F. Tilley	554,098	Feb. 4	547	121	74	604
Cot. Folding	A. J. Young	560,960	May 26	2975	683	75	1317
Cot or bed frame	J. R. Patterson	556,833	Mar. 24	2419	568	74	1631
Cotter-pin press	W. R. Tilton	569,527	Oct. 13	1392	328	77	279
Cotton-bale opening or picking machine	M. Swenson	574,048	Dec. 29	3538	845	77	2014
Cotton-bale picking or opening machine	M. Swenson	573,931	Dec. 29	3313	791	77	1973
Cotton bolting and cleaning machine	J. M. Gardner	556,179	Mar. 10	1238	289	74	1378
Cotton-can	J. F. White	558,135	Apr. 14	1117	272	75	229
Cotton-chopper	J. I. Duniap	559,938	May 12	1082	240	75	898
Cotton-chopper	W. R. Jackson	567,345	Sept. 8	1093	263	76	1497
Cotton chopper and cultivator	J. Cocke	571,648	Nov. 17	2148	515	77	1079
Cotton chopper and cultivator	H. Peters	558,307	Apr. 14	1407	346	75	284
Cotton chopper and cultivator	D. C. Summers	573,369	Dec. 15	2269	541	77	1745
Cotton cleaner and feeder	M. L. Moore	553,125	Jan. 14	1163	282	74	233
Cotton-cleaning and bat-forming apparatus	W. A. Patterson	563,719	July 7	813	194	76	152
Cotton-condenser	J. M. Cochran	572,650	Dec. 8	986	237	77	1485
Cotton conveyor and distributor. Pneumatic seed-	E. L. Smith	568,892	Oct. 6	287	66	77	55
Cotton drying and cleaning machine	C. W. Brown	556,598	Mar. 17	1819	447	74	1521
Cotton-elevating system. Pneumatic	I. T. Washburne	559,237	Apr. 28	3082	744	75	630
Cotton elevator and distributor	J. W. Elliott	571,473	Nov. 17	1849	440	77	1025
Cotton-elevator and gin-feeder	S. D. Murray	560,914	May 26	2898	664	75	1302
Cotton-gin	H. W. Graber	568,610	Sept. 29	3318	795	76	1956
Cotton-gin and wool-burring machine	H. W. Libbey	572,263	Dec. 1	300	72	77	1336
Cotton-gin. Saw	J. W. Cooper	562,363	June 16	2284	555	75	1843
Cotton-gin. Saw	J. Rice	553,597	Jan. 28	1994	473	74	417
Cotton-gin screen	J. S. Jenkins	574,201	Dec. 29	3855	919	77	2069
Cotton-gin seed-conveyer	R. S. Munger	555,789	Mar. 3	494	120	74	1219
Cotton-lapper grate	A. Arnfield	561,853	June 9	1420	341	75	1663
Cotton. Machinery for handling	R. M. Gill	570,471	Nov. 3	55	13	77	648
Cotton-opener	H. S. Houghton	555,953	Mar. 10	807	194	74	1300
Cotton-picker	D. W. Gaskill	555,691	Mar. 3	352	81, 82	74	1192
Cotton-picker	R. W. Ivy	568,351	Sept. 29	2843	684	76	1868
Cotton-picker	C. C. Neighbours	572,611	Dec. 8	924	223	77	1473
Cotton-picker	D. Rawl	574,218	Dec. 29	3892	926	77	2076
Cotton-picking machine	H. T. Armstrong	570,444	Nov. 3	4	1, 2	77	639
Cotton-picking machine	W. A. Turner	572,493	Dec. 1	704	168	77	1412
Cotton. Pneumatic device for elevating and distributing seed-	J. M. Gardner	556,180	Mar. 10	1240	290	74	1378
Cotton-press	H. G. Ellis	565,069	Aug. 4	180	33, 44	76	651
Cotton-press	F. Garraux	561,661	June 9	1065	257	75	1596
Cotton-press	T. J. Griffin	558,171	Apr. 14	1173	286	75	239
Cotton-press	T. J. Griffin	562,180	June 16	1979	287	75	1788

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cotton-press	J. Little	553,924	Feb. 4	231	50	74	548
Cotton-press	M. Swenson	557,089	Mar. 24	2855	683	74	1716
Cotton-press	M. Swenson	574,121	Dec. 29	3673	876	77	2038
Cotton-press	R. D. Webb	566,431	Aug. 25	2686	656	76	1177
Cotton-scraper	A. C. Rosencranz	568,280	Sept. 22	2716	651	76	1829
Cotton staple, &c. Conveyer for treating	A. H. Morton	572,492	Dec. 1	703	168	77	1412
Cotton thinner and cultivator. Combined	R. J. Gatling	558,682	Apr. 21	2061	497 498	75	421
Couch	R. V. Wicks	559,242	Apr. 28	3094	747	75	632
Couch, bed, &c	T. E. O'Brien	564,531	July 21	2253	529	76	445
Couch, bed, and bath-tub. Combined	J. Bock	569,001	Oct. 6	499	112	77	95
Couch. Folding	J. L. Firm	563,500	July 7	585	136	76	110
Couch. Invalid's	W. L. Logsdon	565,287	Aug. 4	630	150	76	732
Couch or settee. Convertible	E. Harry	570,208	Oct. 27	2620	622	77	535
Couch. Spring	C. S. Rouse	568,101	Sept. 22	2415	582	76	1772
Counter and show-case. Combined	J. H. Gimnich	570,795	Nov. 3	682	156	77	764
Counter attachment for suspending barrels	G. A. Doyle	567,891	Sept. 15	2005	481	76	1685
Counter attachment. Sales	H. Walkinshaw and J. Kapp	571,252	Nov. 10	1481	347	77	942
Counter, drawer, and show-case. Combined	W. R. White	561,743	June 9	1224	290	75	1627
Counter. Moving	F. Ruequoy	565,180	Aug. 4	433	103 104	76	697
Counter-seat	G. W. Dearborn	571,651	Nov. 17	2153	517	77	1080
Counters. Adjustable armor for bank	J. L. De Long	562,712	June 23	2877	698 699	75	1971
Countersinking-bit	J. H. Henry	554,443	Feb. 11	1153	268	74	735
Counting or adding machine	J. J. McGinty	562,143	June 16	1914	464	75	1775
Coupler for pneumatic actions	F. W. Hedgeland	566,314	Aug. 25	2457	602	76	1132
Coupling:							
See Air-brake coupling. Locomotive pilot-bar coupling.							
Air-brake hose-coupling. Locomotive-tender coupling.							
Belt-coupling. ing.							
Bicycle coupling. Pipe-coupling.							
Brake-pipe coupling. Pipe and hose coupling.							
Car-coupling. Pump-coupling.							
Car and air-brake coupling. Shaft-coupling.							
Clutch-coupling. Shaft or pole coupling.							
Cultivator-beam coupling. Shaft or tongue coupling.							
Drill-rod coupling. Steam-coupling.							
Engine-coupling. Stovepipe-coupling.							
Faucet-coupling. Swivel-coupling.							
Hose-coupling. Tap-coupling.							
Hose and pipe coupling. Thill-coupling.							
ing. Tire-coupling.							
Locomotive-pilot coupling. Vehicle-coupling.							
ing. Water-closet coupling.							
ing. Whitetree-coupling.							
Coupling	M. T. Miles	565,770	Aug. 11	1510	368	76	917
Coupling	J. J. Ricketts	555,264	Feb. 25	2600	610	74	1038
Coupling attachment. Interchange	J. B. Thomas	568,420	Sept. 29	2955	709	76	1889
Coupling device	J. Rieppel	567,614	Sept. 15	1538	372	76	1593
Coupling device	E. A. Sperry	562,500	June 23	2501	606 607	75	1901
Coupling device	E. A. Sperry	565,935	Aug. 18	1814	441	76	993
Coupling for electric or other power transmission	E. A. Sperry	562,499	June 23	2500	606	75	1901
Coupling for rolls	J. F. Budke	573,203	Dec. 15	1967	474	77	1690
Coupon system. Credit	W. R. Gillette	572,978	Dec. 15	1572	377	77	1615
Cover and lifting device	G. J. Record	565,567	Aug. 11	1136	274	76	846
Cover for coal-holes, &c. Safety	F. H. Moore	556,894	Mar. 24	2527	595	74	1651
Cover for cooking utensils, &c	R. Clayton	561,763	June 9	1260	300	75	1634
Cover for culinary utensils, &c	L. W. Hammond	561,584	June 9	939	224	75	1573
Cover for vessels, &c	R. Clayton	561,764	June 9	1261	300	75	1634
Cover-holder for culinary pots or kettles	H. A. Schermerhorn	572,774	Dec. 8	1215	294	77	1528
Cover. Preserving-vessel	T. Lea and S. Hazard	553,922	Feb. 4	227	49	74	548
Cover. Saucepan	G. Curley	566,744	Sept. 1	20	5	76	1284
Covers of cans or other receptacles. Device for removing	G. J. Record	571,794	Nov. 24	2423	577	77	1151
Covering for runways, &c	F. J. Lennon	554,129	Feb. 4	612	138	74	617
Covering or envelop. Flexible metallic	A. A. Brooks	559,968	May 12	1135	253	75	912
Cow-tail holder	L. D. Corser	562,379	June 23	2314	562	75	1865
Cowl	A. O'Brien	567,500	Sept. 8	1349	325	76	1543
Cracker-cutter	W. A. Hull	557,821	Apr. 7	530	127	75	100
Cracker-machines. Device for raising or lowering cutting-plates of	H. M. L. Anderson	562,788	June 30	3014	728	75	2015
Cradle. Spring	J. T. Murphy	555,258	Feb. 25	2590	608	74	1037
Crane	F. N. Connet	563,258	July 7	40	10, 11	76	9
Crane	F. N. Connet	563,259	July 7	47	12	76	11
Crane	F. W. Taylor	568,174	Sept. 22	2536	610 611	76	1795
Crane friction-gearing	T. Whitaker	563,344	July 7	196	44	76	40
Crane. Overhead traveling	W. H. Morgan	560,736	May 26	2567	590 591	75	1240
Crane. Overhead traveling	W. H. Morgan	560,738	May 26	2570	591 592	75	1240
Crane. Overhead traveling	W. H. Morgan	564,708	July 28	2564	607	76	522
Crane. Portable	A. N. Hadley	561,313	June 2	440	109	75	1455
Crane. Traveling	V. E. Edwards	562,381	June 23	2316	562	75	1866
Cranes, &c. Electrical apparatus for controlling motion of	J. A. Essberger and A. W. Geyer	561,777	June 9	1291	310 311	75	1639
Crank and pedal	W. L. Decker	571,753	Nov. 24	2354	563	77	1137
Crank-and-pitman connection	C. H. Curran and E. Whalley	565,261	Aug. 4	596	141	76	725
Crank. Detachable	W. H. Williams	567,184	Sept. 8	793	187	76	1444
Crank-handle	J. D. McFarland, Jr.	569,346	Oct. 13	1093	259	77	225

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Crank or the like	B. Pedersen	558,516	Apr. 21	1779	432	75	370
Crank-pin	R. Bragg	572,497	Dec. 1	716	171	77	1414
Crank-pin-box connection	C. H. Robinson	560,650	May 26	2427	555	75	1212
Cranks. Mechanism for varying throw of	C. Seybold	560,434	May 19	2007	460	75	1120
Cranks to shafts. Means for attaching	A. C. Field	553,400	Jan. 21	1646	394	74	336
Crate	R. A. Riviere	557,706	Apr. 7	320	76	75	61
Crate	A. Stratton	573,718	Dec. 22	2944	695	77	1889
Crate. Banana	W. P. Burke	565,958	Aug. 18	1854	450	76	1001
Crate. Bicycle	H. G. Streat	555,833	Mar. 3	571	138	74	1234
Crate. Egg	A. D. Gilpin	559,776	May 5	733	175	75	820
Crate. Egg	G. W. Spurr	569,390	Oct. 13	1163	277	77	238
Crate. Folding	W. J. Aicklen	573,804	Dec. 22	3075	731	77	1915
Crate. Folding	P. B. Cantfield	552,985	Jan. 14	920	223	74	186
Crate. Folding	A. A. Willets	568,553	Sept. 29	3203	771	76	1933
Crate. Folding egg	C. Tucker	570,574	Nov. 3	262	65, 66	77	687
Crate. Folding poultry	D. P. Rosenberger	562,031	June 16	1719	418	75	1740
Crate. Folding shipping	J. H. Pollard	573,529	Dec. 22	2582	613	77	1820
Crate for shipping bananas	O. Andrews	565,822	Aug. 11	1592	390	76	932
Crate. Knockdown	A. Phelps	564,713	July 28	2571	609	76	523
Crate-lid	W. H. H. Sallee	573,040	Dec. 15	1671	401	77	1636
Crate. Poultry	J. H. Antrobus	561,852	June 9	1419	341	75	1662
Crate. Shipping	W. Hall	568,137	Sept. 22	2477	594	76	1784
Crate. Shipping	J. H. Jewett	572,998	Dec. 15	1602	384	77	1692
Crayon or pencil	A. K. Cross	566,845	Sept. 1	189	.....	76	1318
Cream or milk. Apparatus for pasteurizing and cooling	C. B. Petersen	558,980	Apr. 28	2574	625	75	535
Cream separator and purifier. Centrifugal	T. Willing	565,654	Aug. 11	1300	314	76	877
Cream-separator disks. Holder for use in cleaning	W. J. Bush	552,817	Jan. 7	603	146	74	113
Creamer and refrigerator. Combined	L. E. Campbell	562,570	June 23	2639	639	75	1927
Creamer. Centrifugal	O. Anderson	553,223	Jan. 21	1336	324	74	279
Creamer. Centrifugal	E. G. N. Salenius	556,905	Mar. 24	2545	599	74	1654
Creamer. Centrifugal	T. H. Springer	561,829	June 9	1376	330	75	1654
Creamer gage and indicator	W. M. Gartshore	554,259	Feb. 11	829	189	74	673
Crematory. Garbage and excrement	F. K. Plumbly	567,506	Sept. 8	1358	327	76	1544
Crematory. Odorless	C. W. Lent	573,605	Dec. 22	2717	646	77	1848
Crib	C. Pitschner, Jr	557,698	Apr. 7	309	74	75	59
Crib for building piers, &c.	J. G. Haentges	554,680	Feb. 18	1564	368	74	829
Crib. Portable suspended	W. D. Ranney	562,321	June 16	2208	537	75	1830
Crimping and heading machine. Combined	H. Schaafe	557,028	Mar. 24	2762	656	74	1696
Crimping-machine	E. P. Holden	555,244	Feb. 25	2564	602	74	1031
Crimping-tongs	G. L. Thompson	570,413	Oct. 27	3035	719	77	611
Crimping-tool	F. Westerbeck	554,554	Feb. 11	1326	311	74	767
Crochet-hook	A. Knippenberg	572,809	Dec. 8	1277	307	77	1540
Cross-head	G. A. Anderson	555,296	Feb. 25	2665	623	74	1051
Cross-tie holder	Z. McGonegal and H. E. Crilly	552,965	Jan. 14	889	215	74	180
Crown for bridgework. Detachable porcelain	W. L. Mason	559,185	Apr. 28	2971	718	75	609
Crucible	C. Capper	553,702	Jan. 28	2172	514	74	449
Crucible-furnace	E. M. Scoville	559,868	May 12	949	212	75	875
Crupper for restraining horses from kicking	H. Cave	569,812	Oct. 20	1932	459	77	392
Crusher:	R. McCully	566,464	Aug. 25	2776	674	76	1192
See Coal-crusher. Ore-crusher.	J. Walker	564,039	July 14	1408	327	76	276
Crusher-mill	W. Duffield and W. R. Taylor	563,145	June 30	3681	881	75	2146
Crushing and grinding mill	E. D. Self	568,926	Oct. 6	353	81, 82	77	68
Crushing apparatus	R. McCully	566,463	Aug. 25	2774	674	76	1191
Crushing-machine	C. M. Carhart	561,538	June 2	854	205	75	1531
Crushing-mill	F. A. Huntington	556,466	Mar. 17	1799	417	74	1499
Crushing-mill. Centrifugal	R. Sauerbrey	569,238	Oct. 13	903	216	77	189
Crushing or pulverizing ores, &c. Machine for	R. H. Dundee and F. G. Jones	566,672	Aug. 25	3077	751	76	1250
Crushing-roll	F. Cazin	568,662	Sept. 29	3420	818	76	1975
Crushing-roll	T. A. Edison	567,187	Sept. 8	796	188	76	1445
Crushing-rolls	F. Cazin	553,391	Jan. 21	1631	389	74	333
Crutch	G. D. Burdick	563,358	July 7	214	48	76	43
Crutch	E. W. Frantz	557,572	Apr. 7	81	20	75	17
Crutch	F. A. Lund	562,333	June 16	2227	542	75	1834
Cue-rest	W. D. Cronin	570,459	Nov. 3	33	7	77	644
Cue-tip	T. P. Folger	553,905	Feb. 4	185	39	74	530
Cue-trimmer	J. N. McIntire	555,730	Mar. 3	416	96	74	1204
Cuff-holder	A. L. Brand	553,255	Apr. 14	1319	322	75	266
Cuff-holder	O. L. Haven and C. E. Smith	565,078	Aug. 4	203	51	76	655
Cuff-holder	J. W. Payton	553,260	Jan. 21	1402	342	74	292
Cuff-holder	N. L. Reynolds	560,820	May 26	2711	622	75	1268
Cuff-link	O. Congelton	570,457	Nov. 3	31	7	77	644
Cuff or border for undergarments	J. A. Bennett and W. B. Clark	570,694	Nov. 3	518	120	77	734
Cuffs. Tab for attaching	T. E. Wardwell	568,505	Sept. 29	3099	747	76	1915
Culinary appliance	B. Mozer	557,313	Mar. 31	3273	785	74	1811
Culinary device	W. J. Schneider	554,316	Feb. 11	930	214	74	692
Culinary mill	H. A. Stock	564,345	July 21	1947	459	76	390
Culinary utensil	K. R. Ackermann	568,151	Sept. 22	2502	602	76	1789
Culinary utensil	W. G. Bolus	554,048	Feb. 4	447	99	74	566
Culinary utensil	R. C. Cole	561,566	June 9	904	217	75	1568
Culinary utensil	D. E. Cripe	568,664	Sept. 29	3422	818	76	1975
Culinary vessel	E. A. Stears	557,288	Mar. 31	3233	775	74	1804
Culm-loader	A. H. Roberts	564,937	July 28	2969	707	76	594
Cultivating and clearing land. Machinery for	T. Cooper	571,082	Nov. 10	1191	280	77	889
Cultivating implement	J. Darling	571,130	Nov. 10	1292	300	77	906
Cultivation of asparagus	C. A. von Maltzahn	571,273	Nov. 10	1521	360	77	949

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Cultivator	S. L. Allen	562,786	June 30	3011	727	75	2015
Cultivator	D. Brisky	552,684	Jan. 7	327	86	74	64
Cultivator	J. H. Brown	552,743	Jan. 7	438	110	74	83
Cultivator	H. M. Burdick	553,837	Feb. 4	29	8	74	510
Cultivator	H. M. Burdick	557,484	Mar. 31	3564	852 853 854 855	74	1869
Cultivator	S. C. Cobb	555,760	Mar. 3	459	110	74	1212
Cultivator	J. B. Collard and H. J. Hensarling	570,842	Nov. 3	771	176	77	782
Cultivator	F. E. Davis	553,704	Jan. 28	2175	514 515	74	449
Cultivator	F. E. Davis	568,524	Sept. 29	3162	761	76	1926
Cultivator	T. C. Fleming	573,143	Dec. 15	1863	448 449	77	1672
Cultivator	H. H. Franzen and R. Haschemeyer	554,117	Feb. 4	587	132	74	611
Cultivator	D. D. Funk	570,281	Oct. 27	2756	656	77	561
Cultivator	J. Gross and J. H. Moore	563,168	June 30	3717	889 890	75	2153
Cultivator	E. Haiman, R. Huettich, and C. Bishop	571,307	Nov. 10	1576	375	77	961
Cultivator	H. C. Ham	556,746	Mar. 24	2262	529	74	1602
Cultivator	A. J. Harrington, Jr., and R. S. Warnock	565,979	Aug. 18	1907	463	76	1011
Cultivator	R. H. Hick	555,163	Feb. 25	2422	574	74	1006
Cultivator	W. F. Johnson	564,428	July 21	2094	490	76	416
Cultivator	C. P. Lee	558,501	Apr. 21	1752	425	75	365
Cultivator	J. M. W. Long	554,703	Feb. 18	1598	376	74	836
Cultivator	E. F. Louys	552,714	Jan. 7	370	97	74	72
Cultivator	W. D. McCauly	568,866	Oct. 6	265	61	77	51
Cultivator	G. S. McFall	554,892	Feb. 18	1931	455	74	899
Cultivator	J. H. Moore	558,456	Apr. 14	1672	402	75	333
Cultivator	G. H. and J. G. Parker	556,277	Mar. 10	1447	338	74	1417
Cultivator	S. D. Poole	554,952	Feb. 19	2026	479 480	74	916
Cultivator	J. M. Robinson	573,704	Dec. 22	2919	690	77	1885
Cultivator	C. S. Ruef	565,509	Aug. 11	1044	251	76	830
Cultivator	M. and A. Sattley	560,754	May 26	2596	598	75	1245
Cultivator	W. G. Scott	554,841	Feb. 18	1836	431 432	74	882
Cultivator	A. H. Sears	566,417	Aug. 25	2657	649	76	1171
Cultivator	A. H. Sears	566,418	Aug. 25	2659	649	76	1172
Cultivator	G. W. Shailer and J. S. Watchorn	555,623	Mar. 3	236	55, 56	74	1173
Cultivator	M. W. Thomas	566,549	Aug. 25	2902	708	76	1216
Cultivator	S. K. Vaughn	556,225	Mar. 10	1322	310	74	1393
Cultivator	P. F. Wells	555,059	Feb. 18	2240	535	74	953
Cultivator	H. Wiard	557,465	Mar. 31	3534	844 845	74	1862
Cultivator and chopper, Cotton	A. J. Spain and S. K. Christopher	554,153	Feb. 4	653	147	74	625
Cultivator and weed-cutter, Combined	A. J. Morley	557,080	Mar. 24	2835	676	74	1712
Cultivator attachment	A. T. and W. J. Boney	554,647	Feb. 18	1507	354	74	817
Cultivator attachment	T. R. Morris	570,492	Nov. 3	104	25, 26	77	657
Cultivator attachment	D. Parker	554,087	Feb. 4	525	117	74	600
Cultivator attachment	W. T. Ray	553,937	Feb. 4	251	54	74	552
Cultivator attachment	H. C. Wittrock	553,324	Jan. 21	1523	364 365	74	312
Cultivator attachment, Corn	W. S. Runyon	554,735	Feb. 18	1650	389	74	845
Cultivator-beam coupling	G. D. Mitchell	572,813	Dec. 8	12-2	308	77	1541
Cultivator, Corn	J. A. Smith	552,930	Jan. 14	832	202	74	170
Cultivator, Disk	A. L. Brock	570,660	Nov. 3	454	107	77	724
Cultivator, Disk	W. T. M. Brunner	553,100	Jan. 14	1122	272 273 274	74	225
Cultivator, Disk	G. P. Kistner	564,524	July 21	2238	525	76	443
Cultivator gopher attachment	F. C. Brower	557,764	Apr. 7	440	104	75	83
Cultivator, Hand	W. B. Bachelder	556,327	Mar. 17	1542	359 360	74	1449
Cultivator, Lister	R. Lyons	566,594	Aug. 25	2962	723	76	1228
Cultivator, Lister	W. G. Teal	556,112	Mar. 10	1111	264 265	74	1354
Cultivator or plow	F. Reimers	572,829	Dec. 8	1310	314	77	1547
Cultivator, planter, and roller	F. P. Burdge	571,827	Nov. 24	2479	588	77	1161
Cultivator, Riding	J. M. W. Long	554,704	Feb. 18	1600	377	74	836
Cultivator, Riding	M. and A. Sattley	555,710	Mar. 3	3-2	88, 89	74	1198
Cultivator seeder attachment	W. R. Frost and W. H. Butlin	556,263	Mar. 10	1396	327 328	74	1409
Cultivator shield, Corn	J. A. Rekenenthaler	563,508	July 7	467	109	76	89
Cultivator shovel-standard	H. C. Ham	554,928	Feb. 18	1990	470	74	909
Cultivator, Sulky corn	H. G. Thompson	566,248	Aug. 18	2336	572 573	76	1094
Cultivator, Tongueless	J. V. Rowlett	568,308	Sept. 22	2760	664	76	1838
Cultivator-tooth	E. Boos	560,677	May 26	2472	566	75	1221
Cultivator, Trip-shank	M. Sattley	553,691	Jan. 28	2152	509	74	444
Cultivator, Two-row	S. I. Bailor	571,146	Nov. 10	1312	305 306	77	910
Cultivator-wheel	A. Anderson	558,250	Apr. 14	1308	319	75	264
Cultivator, Wheel	W. Sobey	558,995	Apr. 28	2599	632 633	75	539
Cultivator, Wheel	W. H. Foote	565,886	Aug. 18	1713	420	76	972
Cultivators, Spring attachment for spring-tooth	J. A. Publow	565,505	Aug. 11	1042	250	76	829
Cultivators, Weeder attachment for sulky	E. Fanning	564,478	July 21	2169	508	76	430
Culvert	W. S. Parker	567,653	Sept. 15	1613	387 388	76	1609
Culvert, Corrugated-metal	J. H. Watson	559,642	May 5	499	114	75	777

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Cup: See Drinking-cup. Oil-cup. Lubricant-cup. Shaving-cup.							
Cup.....	F. P. Derr.....	566,563	Aug. 25	2920	713	76	1320
Cupola-furnace.....	J. B. Magill.....	573,825	Dec. 22	3124	744	77	1324
Cuprous oxids. Producing.....	C. Hoepfuer.....	552,960	Jan. 14	880	.....	74	179
Curb and gutter.....	G. A. and F. Schillinger.....	567,173	Sept. 8	779	183	76	1441
Curb-bit.....	F. A. Clark.....	565,431	Aug. 11	866	205	76	797
Curbs or tubes from the ground. Implement for removing.....	A. L. Clark.....	559,932	May 12	1074	239	75	897
Curler. Hair.....	A. Fosgate.....	567,767	Sept. 15	1796	431	76	1644
Curler. Hair.....	J. Taylor.....	568,175	Sept. 22	2541	611	76	1796
Curling-comb.....	I. G. Kraus.....	573,887	Dec. 29	3240	771	77	1960
Curling-iron.....	N. Berryman.....	569,536	Oct. 13	1404	332	77	251
Curling-iron.....	C. W. Major.....	563,291	July 7	98	23	76	21
Curling-iron.....	A. Morley.....	563,783	July 14	927	222	76	190
Curling-iron.....	A. Morley.....	563,784	July 14	930	222	76	190
Curling-iron.....	A. Morley.....	563,785	July 14	931	222	76	191
Curling-iron.....	G. Skinner.....	573,112	Dec. 15	1802	434	77	1661
Curling-iron.....	R. T. Thomas and T. B. Gorton.....	558,533	Apr. 21	1803	438	75	375
Curling-iron.....	R. T. Thomas and T. B. Gorton.....	558,861	Apr. 21	2356	574	75	476
Curling-iron. Hair.....	E. B. Jacobson.....	565,991	Aug. 18	1932	467	76	1017
Curling-irons. Means for heating.....	F. Bowman and S. E. Kerr.....	565,426	Aug. 11	860	203	76	796
Current-controller or rheostat.....	E. E. Werner.....	574,231	Dec. 29	3924	934	77	2082
Current-controlling device.....	J. J. Hogan.....	572,507	Dec. 1	731	174	77	1417
Current generator. Alternating.....	B. G. Lamme.....	564,702	July 28	2555	605	76	520
Current generator. Alternating.....	B. G. Lamme.....	564,703	July 28	2556	605	76	520
Current generator. Alternating.....	W. S. Moody.....	560,735	May 26	2565	590	75	1239
Current generators. Method of and means for regulating alternating.....	B. G. Lamme.....	574,035	Dec. 29	3514	839	77	2008
Current-motor.....	M. G. Bunnell.....	571,063	Nov. 10	1149	268 269	77	881
Current motor. Alternating.....	E. Arnold.....	562,365	June 23	2287	556 557	75	1861
Current motor. Alternating.....	M. Hutin and M. Leblanc.....	553,469	Jan. 21	1760	420	74	358
Current motor. Alternating.....	M. Hutin and M. Leblanc.....	571,478	Nov. 17	1856	442	77	1036
Current motor. Alternating.....	H. L. Tyler.....	558,239	Apr. 14	1294	316	75	262
Current motor. Alternating.....	M. J. Wightman.....	562,686	June 23	2825	676	75	1961
Current motors. Regulating alternating.....	C. P. Steinmetz and E. J. Berg.....	558,119	Apr. 14	1092	267	75	224
Current regulation and distribution. System of alternating.....	B. G. Lamme.....	571,836	Nov. 24	2495	591	77	1164
Current-regulator. Automatic.....	S. C. C. Currie.....	553,901	Feb. 4	178	37, 38	74	538
Current-regulator. Automatic.....	S. C. C. Currie.....	554,414	Feb. 11	1101	256	74	725
Current system. Alternating.....	E. W. Rice, Jr.....	556,865	Mar. 24	2476	584	74	1642
Current system of distribution. Alternating.....	C. P. Steinmetz.....	559,913	May 12	1141	231	75	892
Currents. Changing frequency of periodic.....	L. Gutmann.....	566,076	Aug. 18	2058	501	76	1041
Currents of high frequency. Method of and apparatus for producing.....	N. Tesla.....	568,179	Sept. 22	2548	613	76	1797
Currents of high frequency. Regulating apparatus for producing.....	N. Tesla.....	568,178	Sept. 22	2546	613	76	1797
Currents of rivers, &c. Means for utilizing.....	J. G. Haentges.....	554,681	Feb. 18	1565	368 369	74	829
Currents. Regulating phase relation of alternating.....	E. J. Berg.....	554,230	Feb. 11	765	175	74	661
Currents. System of distribution for alternating.....	C. S. Bradley.....	570,118	Oct. 27	2462	584	77	505
Currycomb.....	C. E. Ballain.....	566,124	Aug. 18	2145	523	76	1056
Currycomb.....	F. H. Burke.....	560,468	May 19	2063	470	75	1129
Currycomb.....	J. Carden.....	553,300	Jan. 21	1482	356	74	306
Currycomb.....	R. C. Eldridge.....	564,367	July 21	1987	467	76	396
Currycomb.....	W. L. Frisbie.....	564,987	Aug. 4	48	11	76	626
Currycomb.....	C. E. Piper.....	572,063	Nov. 24	2899	684	77	1240
Currycomb and singeing device. Combined.....	G. Hicks.....	559,580	May 5	389	94	75	758
Curtain and fixture. Window.....	J. House.....	565,461	Aug. 11	921	219	76	807
Curtain and pillow-sham supporter. Window.....	E. W. Farnham.....	554,619	Feb. 11	1448	340	74	790
Curtain bracket and support. Adjustable.....	A. Walton.....	569,898	Oct. 20	2068	491 492	77	417
Curtain-cabinet.....	P. H. Yawman.....	556,394	Mar. 17	1659	388	74	1472
Curtain-drying frame.....	J. E. Weisel.....	560,073	May 12	1340	300	75	948
Curtain-fixture.....	A. A. Agüero.....	555,031	Feb. 18	2175	518	74	942
Curtain-fixture.....	M. T. and M. E. Bentley.....	554,330	Feb. 11	955	221	74	697
Curtain-fixture.....	J. Bodensab.....	557,183	Mar. 31	3021	722	74	1769
Curtain-fixture.....	J. Darling.....	556,255	Mar. 10	1372	323	74	1402
Curtain-fixture.....	A. F. Girouard.....	567,466	Sept. 8	1295	314	76	1533
Curtain-fixture.....	W. F. Goerdes.....	564,277	July 21	1838	430	76	370
Curtain-fixture.....	A. Johnson.....	559,469	May 5	240	54	75	729
Curtain-fixture.....	A. C. Jones.....	558,077	Apr. 14	1028	251	75	210
Curtain-fixture.....	W. H. Kirkman.....	559,103	Apr. 28	2767	675	75	576
Curtain-fixture.....	J. W. Lang.....	552,870	Jan. 7	698	170	74	131
Curtain-fixture.....	F. C. Lounsbery.....	568,091	Sept. 22	2398	577	76	1769
Curtain-fixture.....	C. Matthews.....	564,630	July 28	2446	575 576	76	499
Curtain-fixture.....	A. N. Russell.....	567,171	Sept. 8	776	182	76	1441
Curtain-fixture.....	J. H. Scott.....	551,959	Feb. 18	2041	484	74	919
Curtain-fixture.....	E. L. Slight.....	569,592	Oct. 13	1527	358	77	303
Curtain-fixture. Adjustable.....	W. T. A. Murphy.....	562,380	June 23	2315	562	75	1865
Curtain-fixture. Adjustable.....	J. R. Thom.....	570,349	Oct. 27	2915	691	77	589
Curtain-fixture. Adjustable.....	F. L. Watts.....	553,143	Jan. 14	1189	289	74	239
Curtain fixture and fastening. Sash.....	D. Karger.....	556,505	Mar. 17	1877	438	74	1513
Curtain fixture or support.....	G. W. Bamford.....	571,184	Nov. 10	1368	319	77	921
Curtain. Flexible.....	T. R. Bunn.....	563,738	July 14	852	202	76	176
Curtain-folding hanger.....	J. H. Best.....	562,779	June 23	2994	724	75	1994
Curtain-frame.....	J. J. Gostowski and B. Kiniewski.....	561,106	June 2	51	14	75	1377
Curtain-guide.....	E. T. Burrows.....	564,682	July 28	2521	596	76	513
Curtain-hanger.....	J. Hitchcock.....	554,692	Feb. 18	1580	372	74	832
Curtain-hanger. Adjustable.....	J. M. Murdock.....	562,017	June 16	1697	413	75	1735

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Curtain-hanging device	J. Spencer	566,425	Aug. 25	2672	653	76	1174
Curtain-holder	C. J. Swanstrom	564,121	July 14	1566	368	76	308
Curtain or canopy holder	M. Vickers	560,288	May 19	1741	396	75	1074
Curtain or portiere hanger	G. A. Gernand	562,601	June 23	2697	632	75	1937
Curtain or shade fixture	O. H. P. G. Spencer	562,257	June 16	2098	508	75	1809
Curtain-pole	C. S. Chaffee and W. H. Moore	557,091	Mar. 24	2860	683	74	1717
Curtain-pole	E. S. Cross	566,665	Aug. 25	3065	748	76	1248
Curtain-pole	H. Eckert	572,249	Dec. 1	271	66	77	1330
Curtain-pole	P. B. Harvey and C. F. Harris	555,603	Mar. 3	203	47	74	1167
Curtain-pole	W. Hodgson	572,165	Dec. 1	126	29	77	1301
Curtain-pole	M. Lansing	557,331	Mar. 31	3304	793	74	1818
Curtain-pole	W. Michelfelder	562,966	June 30	3371	811	75	2088
Curtain-pole	J. F. Yarnall	557,932	Apr. 7	717	173	75	135
Curtain pole and fixture	F. A. Herrick	562,726	June 23	2906	705	75	1976
Curtain pole and fixture	F. J. Schloer	572,687	Dec. 8	1054	256	77	1499
Curtain pole and hanger	J. H. Hilliker	563,592	July 7	602	140	76	113
Curtain-pole bracket	G. P. Neal	569,563	Oct. 13	1460	344	77	292
Curtain-pole fixture	R. B. Starbuck	568,048	Sept. 22	2300	558	76	1751
Curtain-pole ornament	C. C. Vosburgh	566,488	Aug. 25	2812	685	76	1198
Curtain-pole ring	F. Druckhammer	553,607	Jan. 7	180	50	74	36
Curtain-poles. Extension-bracket for	H. Reubel	568,628	Sept. 29	3347	802	76	1961
Curtain-ring	M. L. Munson	572,441	Dec. 1	626	148	77	1397
Curtain-rod	J. M. Kerr	559,716	May 5	612	146	75	799
Curtain-rod	T. D. Pratt	569,010	Oct. 6	509	115	77	97
Curtain-rod. Extension	J. L. Kingston	565,546	Aug. 11	1099	266	76	840
Curtain-rod support	W. S. Grant	565,075	Aug. 4	199	50	76	654
Curtain-roll bracket. Adjustable	R. T. Green	578,945	Apr. 28	2516	610	75	523
Curtain-roller. Extension	A. F. Temple	570,719	Nov. 3	552	128	77	741
Curtain-roller. Extension	A. F. Temple	570,720	Nov. 3	554	128	77	741
Curtain-stretcher	W. Simon, Jr.	570,210	Oct. 27	2626	623	77	536
Curtain-stretcher	J. Smith	568,991	Oct. 6	484	109	77	92
Curtain-stretcher bar	W. C. Backof	561,693	June 9	1125	268	75	1608
Curtain-stretcher pin	J. P. McAlister	553,127	Jan. 14	1165	283	74	234
Curtain-support	D. Turbeville	574,848	Dec. 29	4111	977	77	2118
Curtain-suspending device	J. Pursell	572,616	Dec. 8	932	226	77	1475
Curtain. Window	J. G. Williams	553,375	Jan. 21	1612	384	74	329
Curtains. Detachable fixture-bar for window	U. S. Jackson	559,582	May 5	392	94	75	759
Curtains, &c. Device for raising or lowering	J. H. Nitzsche	563,299	July 7	110	26	76	23
Curtains into awnings. Brace for converting window	H. G. Schrenkeisen	554,958	Feb. 18	2039	483	74	919
Cushion:							
See Elevator safety-cushion.							
Cushion	H. Wüst	556,606	Mar. 17	2038	477	74	1542
Cushion. Spring and air	P. Forsberg	563,225	June 30	3822	915	75	2172
Cuspidor	N. J. Guttendorf	574,148	Dec. 29	3713	886	77	2046
Cuspidor	J. R. Powell	568,070	Sept. 22	2349	567	76	1758
Cuspidor	W. Westlake	559,959	May 12	1115	249	75	905
Cuspidor	G. A. Wolff, L. W. Johnson, and J. F. Wallace	564,463	July 21	2147	502	76	426
Cuspidor. Car	J. F. Miller	561,681	June 9	1103	264	75	1602
Cuspidor or waste-basket support	C. C. La Riviere	567,275	Sept. 8	959	228	76	1472
Cuspidor. Self-cleaning	E. Benoit	570,217	Oct. 27	2637	625	77	538
Cut-off and filter. Automatic	E. C. Fremaux	562,718	June 23	2889	701	75	1974
Cut-off and pointing machine	H. H. Rockwell, C. F. Gerlach, and E. Gebel	565,090	Aug. 4	239	58, 59	76	660
Cut-off. Water-pipe	A. J. Welsh	561,148	June 2	131	35	75	1391
Cut-out and resistance-regulator. Automatic	E. B. W. Reichel	558,109	Apr. 14	1076	264	75	221
Cut-out. Automatic	H. F. Parshall	567,608	Sept. 15	1531	368	76	1592
Cut-out. Circuit-reestablishing	A. L. Tucker and F. H. Loveridge	563,335	July 7	180	40	76	37
Cut-out. Fusible	L. W. Downes	561,159	June 2	148	39	75	1395
Cut-out. Multifuse	W. Ehrhardt	568,971	Oct. 6	436	97	77	84
Cutlery-handle	W. B. Steeles	570,346	Oct. 27	2911	690	77	588
Cutter:							
See Advertising cigar-cutter.	Egg-cutter.						
See Axle-cutter.	Feed-cutter.						
See Band-cutter.	Flue-cutter.						
See Blank-cutter.	Fuel-cutter.						
See Bog-cutter.	Glass-cutter.						
See Boiler-tube cutter.	Hair-cutter.						
See Bolt-cutter.	Meat-cutter.						
See Butter or cheese cutter.	Paper-cutter.						
See Buttonhole-cutter.	Pipe-cutter.						
See Cane-cutter.	Potato-cutter.						
See Card-cutter.	Revolving cutter.						
See Cardboard-cutter.	Rod or bolt cutter.						
See Cheese-cutter.	Rotary cutter.						
See Cigar-cutter.	Screw-thread cutter.						
See Cigar-tip cutter.	Stalk-cutter.						
See Circular cutter.	Thread-cutter.						
See Cloth or wine cutter.	Ticket-cutter.						
See Coal-cutter.	Tire-bolt cutter.						
See Corn-cutter.	Tobacco-cutter.						
See Cornstalk-cutter.	Tube-cutter.						
See Cracker-cutter.	Vegetable-cutter.						
See Dowel-cutter.	Wire-cutter.						
See Wire or rod cutter.							
Cutter and head	W. B. Holbrook	574,151	Dec. 29	3722	887	77	2047
Cutter-bar guard	B. F. Shepherd	572,728	Dec. 8	1138	274	77	1514
Cutter-head	H. Fletcher	559,971	May 12	1138	254	75	913
Cutter-head	W. H. Holder	560,166	May 12	1506	341	75	980
Cutter-head	W. Munch	567,545	Sept. 8	1412	339	76	1555

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Cutter-head.....	G. H. Rice.....	567,046	Sept. 1	556	{ 129 130	76	1387
Cutter-head.....	S. J. Shimer.....	555,742	Mar. 3	437	{ 103 104	74	1208
Cutter-head.....	S. J. Shimer.....	555,743	Mar. 3	438	104	74	1208
Cutter-head.....	F. Stutzman.....	553,366	Jan. 21	1594	380	74	326
Cutter-head and bit.....	S. J. Shimer.....	567,815	Sept. 15	1889	452	76	1662
Cutter-head and jewel-burnisher. Adjustable.....	L. N. Jackman.....	552,687	Jan. 7	329	88	74	65
Cutter-head templet.....	S. J. Shimer.....	573,304	Dec. 15	2169	517	77	1726
Cutting and panning machine.....	L. B. Davidson.....	570,870	Nov. 3	821	191	77	792
Cutting-blade.....	B. L. Campbell.....	556,615	Mar. 17	2053	480	74	1545
Cutting cheese, &c. Machine for.....	L. Sigmund.....	553,434	Jan. 21	1705	{ 406 407	74	347
Cutting elliptical figures from sheet metal. Machine for.....	S. S. Wood.....	556,393	Mar. 17	1653	387	74	1472
Cutting helically-coiled shavings or strips. Machine for.....	C. W. Boman.....	562,273	June 16	2125	{ 515 516	75	1814
Cutting-machine.....	C. Seybold.....	557,157	Mar. 31	2976	711	74	1761
Cutting-tool.....	J. L. McFarlane.....	572,539	Dec. 8	820	197	77	1450
Cyanids. Making.....	J. Raschen.....	567,551	Sept. 8	1425	343	76	1557
Cyanids. Making.....	J. Raschen.....	567,552	Sept. 8	1426	343	76	1557
Cyanids. Process of and apparatus for making.....	J. A. Kendall.....	569,104	Oct. 6	663	153	77	127
Cyanids. Process of and apparatus for producing.....	P. Danckwardt.....	569,325	Oct. 13	1056	250	77	218
Cyanogen compounds from gas liquors. Recovering.....	H. Bower.....	560,965	May 26	2980	75	1318	
Cyanogen compounds. Manufacture of.....	J. J. Hood and A. G. Salamon.....	570,480	Nov. 3	75	77	651	
Cycle.....	H. Brings.....	571,298	Nov. 10	1562	371	77	958
Cycle.....	G. C. W. and W. A. D. Hipperling.....	572,544	Dec. 8	796	190	77	1445
Cycle.....	A. A. Munro.....	572,941	Dec. 8	1496	358	77	1585
Cycle chain-gear case.....	R. F. Hall.....	553,461	Jan. 21	1748	{ 416 417	74	355
Cycle driving-gearing.....	G. W. Amos.....	565,659	Aug. 11	1309	816	76	879
Cycle driving mechanism.....	I. E. Kohlmeyer.....	563,971	July 14	1295	303	76	255
Cycle. Elevated-track.....	W. H. Martin.....	559,298	Apr. 28	3181	{ 768 769	75	648
Cycle handle-bar.....	A. J. Smith.....	557,035	Mar. 24	2773	658	74	1698
Cycle or velocipede.....	P. H. Pritchett.....	564,099	July 14	1521	356	76	299
Cycle-pedal.....	W. Morton and J. Marshall.....	560,913	May 26	2896	664	75	1302
Cycle-pedal.....	O. Pibfeldt.....	557,507	Mar. 31	3619	867	74	1873
Cycle-saddle.....	J. B. Brooks.....	567,882	Sept. 15	1990	477	76	1682
Cycle-saddle.....	J. B. Brooks.....	567,883	Sept. 15	1992	{ 477 478	76	1683
Cycle-saddle.....	L. Perissé.....	569,977	Oct. 20	2206	525	77	413
Cycle-seat.....	S. H. Pullman.....	563,063	June 30	3520	845	75	2116
Cycle. Skating.....	T. A. Marteeny.....	573,096	Dec. 15	1777	427	77	1656
Cycle-stand.....	T. H. Walker.....	556,789	Mar. 24	2351	{ 553 554	74	1619
Cycle-stand and mud-guard. Combined.....	D. Schwarz and G. Luxeder.....	573,542	Dec. 22	2610	619	77	1826
Cycle-wheel.....	J. McConechy.....	572,683	Dec. 8	1044	253	77	1497
Cycle-wheel decorative attachment.....	H. V. Swan.....	554,400	Feb. 11	1065	248	74	718
Cycle wood rim.....	W. H. Herhold.....	561,166	June 2	164	42	75	1398
Cycles. Umbrella or sunshade holder for.....	M. Strohbach.....	566,352	Aug. 25	2523	617	76	1145
Cycling-machine driving-gear.....	J. J. Marshall.....	567,787	Sept. 15	1828	438	76	1650
Cyclometer.....	F. M. Carroll.....	552,819	Jan. 7	604	147	74	113
Cyclometer.....	C. H. Clawson.....	569,322	Oct. 13	1050	249	77	216
Cyclometer.....	G. Nutting.....	555,659	Mar. 3	305	72	74	1185
Cyclometer.....	U. E. Penney.....	562,415	June 23	2360	577	75	1874
Cyclometer.....	A. F. Rockwell.....	565,034	Aug. 4	127	31	76	642
Cyclometer.....	J. Rogginger.....	554,460	Feb. 11	1183	276	74	740
Cylinder-lock.....	C. S. Kennedy and J. W. McKee.....	565,622	Aug. 11	1235	297	76	865
Cylinder-stop.....	J. T. Smith.....	556,563	Mar. 17	1970	460	74	1530
Cylinders. Means for balancing inertia of oscillating.....	H. H. Westinghouse.....	557,294	Mar. 31	3240	777	74	1805
Dam. Movable.....	B. F. Thomas.....	574,229	Dec. 29	3918	932	77	2081
Dam, revetment, and jetty and apparatus for building same.....	J. I. Newburg.....	565,019	Aug. 4	96	23, 24	76	636
Dams. Hydraulic splash-board for.....	R. A. Lang.....	555,102	Feb. 25	2323	552	74	986
Damper.....	F. I. Couch.....	556,738	Mar. 24	2250	526	74	1600
Damper.....	W. A. Dugan and C. H. Bailey.....	564,061	July 14	1457	341	76	286
Damper and ventilator. Stovepipe.....	J. G. Coleman.....	557,768	Apr. 7	444	105	75	84
Damper. Automatic.....	H. Broeker.....	562,799	June 30	3034	733	75	2019
Damper-regulator.....	J. B. Hutchinson.....	570,804	Nov. 3	697	159	77	767
Damper-regulator.....	W. B. Mason.....	561,600	June 9	964	{ 230 231	75	1578
Damper-regulator.....	G. F. Nilsson.....	569,513	Oct. 13	1370	321	77	275
Damper. Stovepipe.....	H. L. Ferris.....	567,025	Sept. 1	513	121	76	1379
Damper. Stovepipe.....	F. D. Goddard.....	565,976	Aug. 18	1904	462	76	1011
Damping and erasing device.....	W. C. Wilson.....	564,238	July 21	1766	413	76	359
Dampness in cellars, &c. Means for preventing.....	C. C. Gilman.....	559,941	May 12	1090	242	75	900
Dandy-roll frame.....	H. E. Wambold.....	566,825	Sept. 1	151	35	76	1811
Danger-signal.....	H. Harris and F. Bernardin.....	573,218	Dec. 15	1992	479	77	1696
Dark room.....	F. A. Wattenberg.....	553,743	Jan. 28	2248	532	74	464
Dark room. Portable.....	R. Daeschner.....	561,568	June 9	912	219	75	1567
Darning apparatus.....	E. Goodwin.....	568,110	Sept. 22	2430	584	76	1774
Darning apparatus.....	J. H. Wilday.....	572,921	Dec. 8	1459	351	77	1578
Darning device.....	M. P. C. Hooper.....	556,752	Mar. 24	2283	537	74	1606
Darning-holder.....	M. P. C. Hooper.....	556,751	Mar. 24	2282	537	74	1606
Dashboard. Vehicle.....	J. H. Wall.....	561,365	June 2	535	135	75	1473
Dash-pot. Electromagnetic.....	J. D. Ihlder.....	560,216	May 19	1603	{ 362 363	75	1050
Dead-centers. Device for overcoming.....	H. H. Tyrrell and C. M. Holford.....	573,801	Dec. 22	3067	727	77	1914
Dead-centers. Mechanism for overcoming.....	W. H. Johnson.....	554,223	Feb. 4	755	172	74	644
Decorating interior walls of houses or other surfaces.....	H. M. Johnston.....	574,332	Dec. 29	4083	970	77	2113
Decoration for textile fabrics.....	E. Siron.....	570,612	Nov. 3	328	81	77	699
Decorticating machine. Ramie.....	J. N. Maingot.....	553,034	Jan. 14	990	{ 240 241	74	199

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Decorticating ramie, &c. Machinery for	P. P. Faure	564,982	Aug. 4	40	8, 9	76	624
Decoy	W. Kunselman	554,368	Feb. 11	1015	235	74	708
Deflector	A. Eby	574,024	Dec. 29	3495	835	77	2005
Deflector	J. and J. E. Rutherford	561,134	June 2	101	27	75	13-6
Deflector. Heat	S. P. Hanson	562,530	June 23	2551	620	75	1910
Deflector. Heat	H. C. Olsen and J. B. Goodwin	555,967	Mar. 10	834	199	74	1306
Deflector. Hot-air	S. S. Clark	551,909	Feb. 18	1957	460	74	903
Deflector. Hot-air	B. V. Gintz	557,068	Mar. 24	2819	671	74	1708
Delivery-receptacles. Device for securing	W. H. Miller	573,341	Dec. 15	2224	532	77	1736
Density-regulator. Automatic	S. M. Lillie	559,857	May 12	929	207	75	871
Dental apparatus. Electric	H. F. Waite	566,103	Aug. 18	2111	515	76	1050
Dental articulator	W. E. Walker	566,949	Sept. 1	366	85	76	1352
Dental articulator	W. E. Walker	566,950	Sept. 1	368	86	76	1352
Dental cataphoric apparatus	M. W. Hollingsworth	569,380	Oct. 13	1144	272	77	235
Dental chair	A. W. Browne	573,133	Dec. 15	1842	{ 444 445 }	77	1668
Dental chair	A. P. Gould	562,390	June 23	2325	566	75	1867
Dental chair	W. B. Mann	557,847	Apr. 7	578	138	75	109
Dental chair	F. Ritter	553,042	Jan. 14	1004	{ 245 246 }	74	202
Dental disk-carrier	W. M. Speakman	552,625	Jan. 7	208	57	74	41
Dental disk-holder	R. M. Chivers	552,514	Jan. 7	22	7	74	7
Dental disk-holder	G. B. Hakens	574,031	Dec. 29	3505	837	77	2007
Dental disk-mandrel	M. L. Rowe	560,047	May 12	1285	289	75	939
Dental engine	F. H. Berry	562,793	June 30	3020	730	75	2017
Dental engine	S. H. Brooks	555,035	Feb. 18	2183	520	74	944
Dental engine	B. S. Brown	561,561	June 9	897	216	75	1565
Dental engine	A. W. Browne	558,152	Apr. 14	1143	279	75	234
Dental engine	O. H. and A. F. Pieper	562,742	June 23	2930	711	75	1981
Dental engine	F. C. Ries and H. H. Johnson	572,030	Nov. 24	2832	668	77	1228
Dental engine	J. D. Wilkens	559,426	May 5	144	30, 31	75	708
Dental-engine handpiece	C. O. Perkins	572,310	Dec. 1	400	95	77	1355
Dental-engine drip apparatus	T. E. Daugherty	568,163	Sept. 22	2518	607	76	1791
Dental-engine shafts. Ball-bearing for	A. W. Browne	558,772	Apr. 21	2208	532	75	448
Dental-engine-tool rest	C. H. Land	569,210	Oct. 13	851	{ 200 201 }	77	178
Dental engines. Electric-generator attachment for	E. L. Woolley	563,995	July 14	1331	310	76	263
Dental excavator	C. M. Fredericks	567,589	Sept. 15	1504	360	76	1587
Dental facial clinometer	W. E. Walker	566,948	Sept. 1	364	85	76	1352
Dental-flask press	S. Mignault	566,207	Aug. 18	2281	558	76	1083
Dental floss-holder	J. D. Cutter	566,667	Aug. 25	3067	749	76	1248
Dental forceps	J. Markowsky	560,419	May 19	1977	452	75	1115
Dental forceps	S. A. Stienbarger	534,844	Feb. 18	1840	433	74	882
Dental furnace	G. W. Schwartz and B. J. Cigrand	573,361	Dec. 15	2260	540	77	1743
Dental handpiece	B. S. Brown	563,131	June 30	3663	877	75	2143
Dental handpiece	A. W. Browne and G. L. Harrison	560,312	May 19	1783	{ 406 407 }	75	1080
Dental handpiece	J. T. Pedersen	552,669	Jan. 7	294	79	74	57
Dental handpiece	H. C. Register	554,032	Feb. 4	421	93	74	582
Dental-handpiece angle attachment	T. Dill-Richard	565,533	Aug. 11	1082	260	76	816
Dental handpieces, &c. Angle attachment for	C. A. Meister	533,124	Jan. 14	1161	282	74	233
Dental hot-air syringe	A. J. Burns and H. C. Reeves	559,511	May 5	277	66	75	735
Dental instrument	J. T. Barker	571,965	Nov. 24	2731	645	77	1209
Dental light and heater	F. H. Stafford	553,572	Jan. 28	1951	460	74	409
Dental matrix	J. P. Flaherty	560,702	May 26	2515	577	75	1229
Dental matrix	C. J. Peterson	552,697	Jan. 7	347	91	74	68
Dental matrix carrier and retainer	J. M. Strout	574,012	Dec. 29	3475	830	77	2002
Dental-mouth-mirror support	O. P. Myers	552,693	Jan. 7	341	90	74	67
Dental obtunder	H. F. Harvey	571,970	Nov. 24	2737	647	77	1210
Dental operating-chairs. Chin-rest for	J. F. Adams	571,209	Nov. 10	1407	329	77	928
Dental plate and making	J. F. X. Hamer	555,158	Feb. 25	2412	572	74	1004
Dental-plate clasp	W. S. Elliott	564,600	July 28	2395	565	76	489
Dental-plate-polishing tool	P. B. Barnes	569,535	Oct. 13	1403	331	77	281
Dental plugger	F. S. Belyea	570,864	Nov. 3	806	185	77	788
Dental plugger	G. W. Nütz	556,202	Mar. 10	1283	300	74	1386
Dental plugger	R. N. Stockton	571,176	Nov. 10	1355	316	77	919
Dental plugger	O. E. Wall	558,443	Apr. 14	1646	396	75	329
Dental plugger. Electrical	P. R. Skinner	557,159	Mar. 31	2979	711	74	1762
Dental plugger. Electrically-actuated	A. W. Browne	558,153	Apr. 14	1145	{ 280 281 }	75	234
Dental plugger. Electrically-actuated	J. W. Gilbert	560,315	May 19	1791	408	75	1081
Dental plugger or mallet	H. A. Edgcomb	574,025	Dec. 29	3496	835	77	2005
Dental plugger. Pneumatic	A. Pelham	566,220	Aug. 18	2298	562	76	1087
Dental spittoon	F. Hurlbut	563,664	July 7	715	{ 168 169 }	76	134
Dental suction-plates. Making	J. O. Scott	563,809	July 14	977	233	76	199
Dental tool	A. J. Brown	557,523	Mar. 31	3643	873	74	1882
Dental tool and plugger	J. W. Dennis	569,093	Oct. 6	649	149	77	324
Dental vulcanizer	J. E. Robie	560,327	May 19	1812	412	75	1085
Dentist's cap-crown splitter	J. B. Monfort	553,718	Jan. 28	2198	522	74	454
Dentists' gold. Preparing	C. A. Flower	564,877	July 28	2358	685	76	574
Dentists' gold. Preparing	C. A. Flower	564,919	July 28	2919	.....	76	586
Dentures. Adhesive plate for artificial	J. Spyer	554,740	Feb. 18	1656	391	74	846
Deodorizing petroleum and products thereof	A. J. Tempère	557,291	Mar. 31	3237	.....	74	1805
Deoxidizing-furnace	H. A. Jones	566,186	Aug. 18	2244	{ 548 549 }	76	1075
Derrailing-switch	J. Y. Porter	556,317	Mar. 10	1518	353	74	1430
Derrick	L. H. Timmans	565,708	Aug. 11	1388	338	76	895
Derrick-frame	A. C. Wilson	566,364	Aug. 25	2559	625	76	1151
Derrick or crane	G. H. Williams	556,950	Mar. 24	2611	614	74	1667
Derrick. Sectional	O. Crosby	570,124	Oct. 27	2472	{ 585 586 }	77	507
Desk	W. T. Dodd	571,652	Nov. 17	2154	517	77	1081
Desk	W. P. Kidder	570,311	Oct. 27	2857	677	77	578

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Pr. g.	Vol.	Page.
Desk.....	A. Munich.....	554,452	Feb. 11	1168	272	74	737
Desk.....	G. Thielor.....	561,454	June 2	701	173	75	1502
Desk and seat. Adjustable school.....	S. Springsteen and H. Harris.....	572,731	Dec. 8	1141	275 276	77	1514
Desk and seat. Adjustable school.....	W. L. Starkey.....	556,565	Mar. 17	1972	461	74	1531
Desk. Duplicate.....	J. C. Laughlin.....	571,486	Nov. 17	1874	447	77	1029
Desk. Folding.....	J. E. H. Kunze.....	558,285	Apr. 14	1370	334	75	277
Desk-lid support.....	B. E. Kipp.....	566,191	Aug. 18	2253	551	76	1077
Desk. Roll-top.....	A. L. Lofstrom.....	552,846	Jan. 7	648	159	74	122
Desk. School.....	Z. Baber.....	563,638	July 7	674	158	76	127
Desk. School.....	J. J. Feely.....	561,779	June 9	1294	311	75	1640
Desk. School.....	C. B. Towle.....	553,631	Jan. 28	2044	484	74	426
Desk-support.....	F. W. Tobey.....	555,293	Feb. 25	2661	622	74	1050
Desk-top. Adjustable.....	F. W. Hill.....	559,330	Apr. 28	3247	784	75	661
Despatch system. Electric.....	C. F. Pike.....	566,532	Aug. 25	2875	699	76	1211
Despatch-tube switch.....	L. G. Bostedo.....	563,550	July 7	534	123	76	101
Detachable clasp for wearing-apparel.....	J. H. and W. C. Stewart.....	561,736	June 9	1210	287	75	1624
Detachable handle and lifter.....	W. C. Burghum.....	564,469	July 21	2155	504	76	427
Detachable holder.....	A. W. Rothchild.....	559,310	Apr. 28	3199	773	75	652
Detector-bar clip.....	C. Hansel.....	566,078	Aug. 18	2060	502	76	1041
Detergent.....	J. Altimira.....	572,853	Dec. 8	1339	.....	77	1533
Detergent and starch-polishing compound.....	W. A. Shepher.....	560,758	May 26	2601	.....	75	1546
Detergent composition.....	F. T. James.....	556,847	Mar. 24	2438	.....	74	1636
Detergent compounds. Making.....	T. C. Burgis.....	573,438	Dec. 22	2433	.....	77	1793
Detonator. Electrical.....	C. H. Rudd.....	556,902	Mar. 24	2541	599	74	1653
Detonator. Electrical.....	C. H. Rudd.....	556,903	Mar. 24	2542	599	74	1654
Detonator. Electrical.....	C. H. Rudd.....	556,904	Mar. 24	2544	599	74	1654
Developing-tray.....	E. L. C. Lambert.....	573,888	Dec. 29	3241	771	77	1960
Dial for recording apparatus.....	F. G. Lougee.....	573,606	Dec. 22	2720	646	77	1848
Diamond-polishing dop.....	E. and E. Loesser.....	573,672	Dec. 22	2868	677	77	1875
Diamond-polishing tool.....	E. and E. Loesser.....	558,909	Apr. 21	2443	595	75	493
Diamond-polishing tool.....	R. and E. Loesser.....	558,734	Apr. 21	2141	516	75	486
Diamond-setting.....	J. G. Heppding.....	554,870	Feb. 18	1889	444	74	891
Diamond-setting.....	J. G. Heppding.....	554,871	Feb. 18	1890	445	74	891
Diaper.....	A. L. Stevens.....	554,203	Feb. 4	728	165	74	638
Diaphanie.....	R. Grimme.....	564,613	July 28	2412	.....	76	492
Dice-box.....	J. Walter.....	560,874	May 26	2832	648	75	1290
Die: See Metal-drawing die. Press-die. Screw-cutting die. Welding-die.							
Die.....	B. F. Kelsey and F. E. Dunham.....	567,030	Sept. 1	520	123	76	1380
Die.....	J. R. Smith.....	562,859	June 30	3158	765	75	2042
Die.....	J. J. Theobald.....	573,371	Dec. 15	2274	542	77	1746
Die and die-holder.....	F. H. La Pierre.....	556,060	Mar. 10	1021	244	74	1339
Die-hammering machine.....	C. H. Morgan.....	566,086	Aug. 18	2073	505 506	76	1043
Die-head. Open.....	H. Kupsch.....	564,700	July 28	2551	603 604	76	520
Die-press.....	J. D. Colomy.....	558,601	Apr. 21	1917	466 467	75	395
Die-stock.....	F. R. Coats.....	556,304	Mar. 10	1498	348	74	1426
Digestive compound.....	J. Carnrick.....	565,329	Aug. 4	694	.....	76	744
Digger: See Post-hole digger. Potato-digger.							
Digging and stable fork.....	C. W. Skeels.....	568,962	Oct. 6	422	94	77	81
Digging apparatus. Ditch.....	C. W. Billings.....	557,949	Apr. 7	757	180	75	142
Digging machine. Earth.....	J. H. Stephens.....	567,622	Sept. 15	1552	374	76	1596
Dilator. Rectal irrigating.....	P. C. Meengs.....	565,386	Aug. 4	7-9	188	76	763
Dimples. Device for producing.....	M. Goetze.....	560,351	May 19	1857	423	75	1093
Dipper.....	J. Marbury.....	558,503	Apr. 21	1754	426	75	365
Dipper.....	H. M. O. Thode.....	554,550	Feb. 11	1321	310	74	766
Direct-acting engine.....	J. G. Leyner.....	567,682	Sept. 15	1654	399	76	1617
Directory and advertising medium. Rotary mechanical.....	P. C. Fish and H. T. Sullivan.....	557,571	Apr. 7	79	20	75	16
Directory. Building.....	H. Willson.....	560,878	May 26	2837	650	75	1291
Directory. Business.....	J. D. Browning.....	556,842	Mar. 24	2429	571	74	1634
Directory. Office.....	W. W. Powers.....	573,354	Dec. 15	2247	537	77	1741
Dish-cleaner.....	E. Atkinson.....	560,673	May 26	2466	565	75	1219
Dish-cleaner.....	G. W. Blackburn.....	555,671	Mar. 3	329	75	74	1189
Dish-cleaner.....	G. S. Blakeslee.....	569,606	Oct. 20	1550	364	77	324
Dish-cleaner.....	W. B. Bond.....	553,329	Jan. 21	1530	366	74	314
Dish-cleaner.....	W. H. Cox.....	562,710	June 23	2874	697 698	75	1970
Dish-cleaner.....	F. D. Crain.....	559,933	May 12	1075	239	75	898
Dish-cleaner.....	S. Cripe.....	556,005	Mar. 10	903	216	74	1319
Dish-cleaner.....	J. E. Durand.....	563,914	July 14	1187	279	76	937
Dish-cleaner.....	G. S. Finney.....	555,570	Mar. 3	144	34	74	1157
Dish-cleaner.....	C. T. Guy.....	553,612	Jan. 28	2021	478	74	422
Dish-cleaner.....	J. S. Hoyt.....	553,677	Jan. 28	2129	504	74	440
Dish-cleaner.....	T. E. Jones.....	558,961	Apr. 28	2542	616	75	528
Dish-cleaner.....	M. L. Julian.....	554,937	Feb. 18	2005	475	74	912
Dish-cleaner.....	J. H. Lippard.....	568,202	Sept. 22	2584	622	76	1803
Dish-cleaner.....	W. C. Maxfield.....	556,358	Mar. 17	1604	375	74	1462
Dish-cleaner.....	W. H. Mullins.....	554,135	Feb. 4	621	140	74	618
Dish-cleaner.....	N. F. Olson.....	567,769	Sept. 15	1798	431	76	1644
Dish-cleaner.....	F. Rowley.....	552,588	Jan. 7	147	40	74	29
Dish-cleaner.....	C. E. Ruhl.....	560,371	May 19	1887	430	75	1008
Dish-cleaner.....	R. W. Springmire.....	553,943	Feb. 4	260	57	74	553
Dish-cleaner.....	A. M. Unger.....	554,324	Feb. 11	942	217	74	694
Dish-cleaner.....	S. E. Williams.....	565,317	Aug. 4	679	163	76	741
Dish-cleaner.....	W. T. Willie.....	556,604	Mar. 17	2036	476	74	1542
Dish-drauer.....	W. B. George.....	563,369	July 7	231	52	76	47
Dish-drauer.....	J. G. Kerner.....	573,983	Dec. 29	3425	821	77	1993
Dish-washer.....	M. Covell.....	557,112	Mar. 31	2893	691	74	1745

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Disinfectant-holder	H. P. Roberts	555,888	Mar. 3	681	164	74	1256
Disinfecting apparatus	H. R. Allen	569,596	Oct. 20	1537	361	77	321
Disinfecting apparatus	C. Herscher	555,700	Mar. 3	367	85	74	1195
Disinfecting apparatus	J. H. Semmes	566,628	Aug. 25	3008	735	76	1237
Disinfecting apparatus	J. C. Thresh	560,951	May 26	2960	679 680	75	1314
Disinfecting apparatus	F. W. Weiss	563,825	July 14	1004	238	76	204
Disinfecting, &c. Apparatus for	H. C. Kürten	565,758	Aug. 11	1488	364	76	913
Disinfecting liquids. Automatic distribution of	W. Pearson	560,922	May 26	2910	667 668	75	1305
Disinfecting material, &c. Apparatus for delivering	E. Taussig	570,518	Nov. 3	146	36	77	665
Disinfecting ships or other structures. Apparatus for	H. R. Cassel	569,173	Oct. 13	782	183	77	165
Disinfector. Graduated	R. S. West	556,948	Mar. 24	2608	613	74	1666
Disintegrating-machine	G. L. Riley	557,886	Apr. 7	632	150 151	75	119
Disk meter	E. Ruud and A. G. Holmes	568,924	Oct. 6	349	81	77	67
Display apparatus	F. W. G. Boettcher	569,950	Oct. 20	2169	514 515 640	77	436
Display-box	A. E. Mealy	556,999	Mar. 24	2708	641	74	1685
Display-box	L. Sonn	558,432	Apr. 14	1634	394	75	326
Display-box cover	G. M. Hudson	566,765	Sept. 1	56	14	76	1290
Display-box cover	G. M. Hudson	573,661	Dec. 22	2849	672	77	1872
Display-cabinet. Combination	T. E. Wood	569,367	Oct. 13	1125	268	77	231
Display-card for exhibiting materials for dress, &c	B. Nichols	564,836	July 28	2786	662	76	560
Display case. Bottle	A. J. Wallis	570,972	Nov. 10	996	231	77	852
Display-cover for barrels	W. H. Hunt	553,000	Jan. 14	943	238	74	191
Display device	E. S. Bachrach	568,711	Sept. 29	3497	837	76	1990
Display device	W. H. Knautz	567,857	Sept. 15	1957	469	76	1675
Display-figure	E. Leger	560,907	May 26	2885	662	75	1300
Display-fixture attachment	B. G. Casler	561,865	June 9	1439	347	75	1667
Display-fixtures. Adjustable bracket for	B. G. Casler	562,887	June 30	3213	777	75	2053
Display-frame	L. T. Snow	564,034	July 14	1397	325	76	274
Display-frame. Garment	H. L. Welling	566,259	Aug. 18	2355	577	76	1097
Display-hook and price-card holder. Combined	F. W. Pelster	557,872	Apr. 7	615	146	75	116
Display-rack	M. E. Batson	565,826	Aug. 11	1598	391	76	933
Display-rack	W. Hager	570,704	Nov. 3	534	124	77	737
Display-rack	F. E. Hartzell	562,532	June 23	2553	620	75	1910
Display-rack	W. Henderson and O. A. Morse	569,715	Oct. 20	1769	420	77	362
Display-rack	J. M. Keeler	568,199	Sept. 23	2579	621	76	1802
Display-rack	D. C. Martin	562,007	June 16	1682	409	75	1732
Display-rack	T. F. McGann	554,717	Feb. 18	1619	382	74	840
Display-rack	J. M. Taylor	573,835	Dec. 22	3141	748	77	1927
Display-rack	C. L. Willits	562,265	June 16	2113	512	75	1812
Display rack. Fabric	F. Ames	563,004	June 30	3423	824	75	2099
Display rack. Hat	C. C. Deane	562,809	June 30	3055	739	75	2023
Display-receptacle for barrel-covers	W. H. Bloom	568,126	Sept. 22	2459	590	76	1780
Display-stand	F. L. Carr, Jr.	562,215	June 16	2033	491	75	1797
Display-stand	W. J. Drew	569,961	Oct. 20	2185	518	77	439
Display-stand	R. L. Peyton	558,308	Apr. 14	1410	347	75	284
Display-stand	P. Weaver and N. S. Haller	571,961	Nov. 21	2726	644	77	1209
Display-stand for bills of fare	H. J. Geer	564,785	July 28	2710	643	76	546
Display-stand. Illuminating	A. F. Baumer	563,732	July 14	842	200	76	173
Displaying lace curtains. Device for	J. J. Reid	564,451	July 21	2126	497	76	422
Displaying, measuring, and cutting apparatus. Cloth	A. B. Black	560,294	May 19	1753	399	75	1075
Distance and direction of remote objects. Apparatus for indicating	G. G. Greenough	568,755	Oct. 6	75	17, 18	77	18
Distance instrument	F. T. and G. E. Marchand	563,196	June 30	3772	903	75	2164
Distillation of oil. Process of and apparatus for	W. P. Lowe and C. W. Bilfinger	556,155	Mar. 10	1197	280	74	1371
Distillation of petroleum	H. Frasch	561,216	June 2	245		75	1415
Distilling apparatus	D. Cantor	553,206	Jan. 14	1311	318	74	260
Distilling apparatus	I. H. Jewell	552,688	Jan. 7	330	88	74	65
Distilling apparatus	J. Van Ruyambeke	568,219	Sept. 22	2613	629	76	1810
Distilling apparatus. Self-regulating	S. L. Bigelow	564,734	July 28	2614	623	76	530
Distilling apparatus. Water	C. and A. J. Chase	558,775	Apr. 21	1212	533	75	449
Distilling apparatus. Water	E. C. Hargrave	552,835	Jan. 7	631	155	74	119
Distilling apparatus. Water	M. L. Sargent	562,326	June 16	2216	539	75	1832
Distilling fatty substances. Process of and apparatus for	V. J. Kuess	568,258	Sept. 22	2682	642 643	76	1822
Distributing-box and fuse-plug	P. S. Brown	554,438	Feb. 11	1142	266 267	74	733
Ditching and grading machine	C. F. Hinman and M. G. Bunnell	554,875	Feb. 18	1903	446 447	74	893
Ditching-machine	O. Hetlesæter	561,939	June 9	1561	379	75	1690
Ditching-machine	D. F. Kain	555,010	Feb. 18	2140	510	74	936
Ditching or excavating machine	M. C. Mackey	569,975	Oct. 20	2204	524	77	442
Divan. Combination	P. B. Jackson	571,000	Nov. 10	1042	244	77	861
Dividers	C. Klau	567,810	Sept. 15	1879	449	76	1660
Dividers. Circumferential	J. E. Worthen	559,559	May 5	362	88	75	753
Dividing-machine for caked articles	P. F. Nelson	554,830	Feb. 18	1815	425	74	878
Dock and ship-cleaning device. Floating dry-	M. W. Marsden	570,489	Nov. 3	96	23 24	77	656
Dock and vessel leveling device	J. Weeks	568,421	Sept. 29	2957	709	76	1889
Dock-bents, &c. Device for use in erecting	M. J. Peppard	563,405	July 7	285	65	76	57
Dock. Dry	J. W. Boggs and A. Cameron	566,734	Sept. 1	5	2	76	1281
Docks. Construction of dry-	E. S. Walsh	561,458	June 2	709	174	75	1503
Doctor. Automatic	T. H. Latimer	559,723	May 5	621	149	75	801
Doll	E. A. Hinrichs and F. P. Bemis	564,563	July 21	2321	545	76	457
Doll-joint. Universal	C. Fausel	553,643	Jan. 28	2079	490	74	431
Doll-walker	H. R. Hinckley	569,333	Oct. 13	1069	253	77	221
Domestic boiler	H. E. Grant	557,504	Mar. 31	3615	866	74	1877
Domestic boiler	G. C. Twyman	564,128	July 14	1574	369	76	310

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Door.....	E. A. Hill.....	552,578	Jan. 7	128	35	74	26
Door.....	F. Mansfield.....	554,888	Feb. 18	1923	453	74	897
Door.....	J. W. Rapp.....	557,148	Mar. 31	2961	709	74	1759
Door. Automatic self-closing.....	I. F. Miller.....	555,652	Mar. 3	297	70	74	1183
Door-brace.....	C. Hoffman.....	559,382	May 5	56	12	75	691
Door-catch.....	P. Mickelson.....	567,036	Sept. 1	532	125	76	1382
Door-catch.....	C. H. Paxson.....	553,868	Feb. 4	95	20	74	523
Door-catch.....	H. Schumann and B. C. Alvord.....	574,004	Dec. 29	3460	828	77	1999
Door-catch.....	F. W. Tobey.....	573,372	Dec. 15	2275	543	77	1746
Door catch. Swinging.....	F. Sweet.....	568,638	Sept. 29	3367	807	76	1964
Door-check.....	T. J. Campbell.....	561,373	June 2	548	138	75	1476
Door-check.....	T. Curley.....	566,063	Aug. 18	2038	495 497	76	1037
Door-check.....	T. Curley.....	571,153	Nov. 10	1326	309	77	913
Door-check.....	C. B. Harkness.....	565,896	Aug. 18	1729	424	76	975
Door-check.....	W. K. Henry.....	558,071	Apr. 14	1018	248	75	208
Door-check.....	M. Moore and F. A. Holliday.....	570,039	Oct. 27	2314	549	77	476
Door-check.....	J. D. Platt.....	559,600	May 5	425	101	75	765
Door-check.....	E. L. Schacht.....	573,300	Dec. 15	2149	515	77	1732
Door-check.....	F. Wankel.....	565,100	Aug. 4	259	62	76	664
Door-check.....	A. Wright.....	568,554	Sept. 29	3204	772	76	1933
Door check and closer.....	E. I. Blount. (Reissue).....	11,537	May 5	761	183	75	825
Door check and closer.....	C. E. Brunthaver.....	565,377	Aug. 4	769	183 184	76	760
Door check and closer.....	W. H. Taylor.....	558,621	Apr. 21	1948	472	75	400
Door check and closer.....	W. H. Taylor.....	558,622	Apr. 21	1949	473	75	401
Door-check. Liquid.....	G. W. Wright.....	559,156	Apr. 28	2922	706	75	600
Door-check. Pneumatic.....	R. Wright.....	560,668	May 26	2460	564	75	1218
Door-clasp.....	H. W. Harris.....	570,017	Oct. 27	2276	541	77	468
Door closer and stop. Combined.....	B. M. Davis.....	573,395	Dec. 15	2312	553	77	1753
Door closer, check, and holder.....	C. J. Wagener.....	573,487	Dec. 22	2535	601	77	1811
Door-closing mechanism. Thermal.....	H. B. Newhall.....	570,710	Nov. 3	539	125	77	738
Door. Combination screen and storm.....	J. Branca.....	563,649	July 7	689	162	76	130
Door-fastener.....	A. B. Caminetti.....	553,496	Jan. 21	1810	430	74	366
Door-fastener.....	N. H. Colwell.....	554,615	Feb. 11	1443	338	74	789
Door-fastener.....	G. A. Manchester.....	560,809	May 26	2695	619	75	1264
Door-fastener and alarm. Combined.....	A. E. Veon.....	571,546	Nov. 17	1984	472	77	1049
Door fastener. Sliding.....	A. Bataille.....	556,572	Mar. 17	1983	463	74	1533
Door fastener. Sliding.....	J. Johnston and J. M. Cooper.....	553,856	Feb. 4	80	16	74	520
Door fastener. Sliding.....	T. Tighe.....	568,078	Sept. 22	2366	571 572	76	1762
Door. Flexible.....	A. S. Spaulding.....	558,577	Apr. 21	1873	455	75	387
Door. Grain.....	H. Pries and J. W. Meyer.....	570,269	Oct. 27	2739	631 652	77	557
Door-guard.....	O. H. Hicks.....	565,206	Aug. 4	473	113	76	704
Door guide-bracket. Sliding.....	R. G. Chase.....	559,568	May 5	373	90	75	755
Door-handle.....	A. F. Dustin.....	560,697	May 26	2509	576	75	1228
Door-handle with electric alarm.....	A. J. Moulart.....	560,043	May 12	1279	287	75	938
Door-hanger.....	H. L. Ferris.....	569,965	Oct. 20	2190	520	77	440
Door-hanger.....	W. McIntyre.....	565,915	Aug. 18	1777	433	76	986
Door-hanger.....	M. C. Richards.....	573,108	Dec. 15	1795	432	77	1659
Door-hanger.....	J. Schlutter.....	568,171	Sept. 22	2533	609 610	76	1794
Door-hanger.....	O. Seely.....	558,704	Apr. 21	2096	506	75	427
Door-hanger.....	A. D. Sinex.....	558,667	Apr. 21	2035	490	75	415
Door-hanger.....	N. M. G. Syverson.....	564,318	July 21	1903	449	76	382
Door hanger. Folding.....	W. S. Roof.....	569,937	Oct. 20	2145	508	77	432
Door. Hanging and sliding.....	H. C. Ashenfelter.....	568,152	Sept. 22	2503	602 603	76	1789
Door holder. Roller or sliding.....	D. H. Jackson.....	562,470	June 23	2450	597	75	1893
Door-indicator.....	F. Arenas.....	556,525	Mar. 17	1915	446	74	1520
Door lock.....	E. S. Sutton.....	553,367	Jan. 21	1596	381	74	326
Door lock and skid. Combined.....	E. F. Pendexter.....	557,694	Apr. 7	300	72	75	57
Door lock. Hotel.....	C. W. Andrews.....	571,210	Nov. 10	1408	329	77	928
Door lock. Sliding.....	W. E. Deibert.....	556,309	Mar. 10	1504	349	74	1427
Door lock. Sliding.....	A. P. Larsson and K. Schultz.....	555,779	Mar. 3	481	115	74	1217
Door lock. Sliding.....	A. H. C. Trepte.....	573,934	Dec. 29	3317	792	77	1974
Door-opener.....	J. W. Regan.....	569,056	Oct. 6	588	134	77	113
Door-opener.....	A. J. Woodin.....	555,993	Mar. 10	887	212	74	1316
Door opener and holder.....	J. H. Clay.....	562,377	June 23	2311	561	75	1865
Door-opener. Automatic.....	B. Genaust.....	559,448	May 5	177	39	75	716
Door-opening apparatus.....	G. Gerstmann.....	564,880	July 28	2860	685	76	574
Door-opening device. Screen.....	K. W. Congill.....	560,478	May 19	2079	473	75	1133
Door-operating apparatus.....	O. H. Hicks.....	572,299	Dec. 1	371	88	77	1350
Door-operating apparatus.....	O. H. Hicks.....	572,300	Dec. 1	372	88	77	1350
Door-operating apparatus.....	H. T. Moody.....	556,158	Mar. 10	1202	281	74	1372
Door-operating apparatus. Electric.....	O. H. Hicks.....	554,818	Feb. 18	1797	422	74	874
Door-operating apparatus. Electric.....	O. H. Hicks and R. F. Troy.....	554,819	Feb. 18	1798	422 88 89 91	74	875
Door-operating apparatus. Electric.....	O. H. Hicks and R. F. Troy.....	572,301	Dec. 1	374	89 90 91	77	1350
Door or blind clamping machine.....	C. D. Marsh.....	556,684	Mar. 17	2153	503	74	1564
Door or sash lock. Portable.....	G. W. Haas.....	565,978	Aug. 18	1905	462	76	1011
Door or shutter.....	C. J. Mathewson and W. W. Grier.....	563,779	July 14	920	220	76	188
Door or window fastening.....	L. Grossmann.....	563,855	July 14	1073	253	76	216
Door-securer.....	H. E. and F. A. Casto.....	568,189	Sept. 22	2562	616	76	1800
Door-securer.....	A. N. Woodard.....	566,107	Aug. 18	2119	516	76	1051
Door-securer and key-ring chain. Combined.....	G. F. Bailey.....	572,046	Nov. 24	2866	674	77	1234
Door. Sliding.....	M. W. Forbes and F. Hart.....	566,159	Aug. 18	2202	536	76	1067
Door. Sliding.....	J. A. McElroy.....	562,141	June 16	1910	462 463	75	1774
Door. Sliding or folding.....	O. T. Springer.....	567,570	Sept. 8	1460	350	76	1563

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Door-spring.....	G. W. Warner.....	567,329	Sept. 8	1069	255	76	1492
Door spring and check. Combined.....	J. Bardsley.....	567,121	Sept. 8	691	161	76	1425
Door stop and retainer.....	J. H. Ward.....	564,237	July 21	1765	412	76	359
Door stop or holder.....	P. and S. Westra.....	572,622	Dec. 8	940	228	77	1477
Door. Swinging and sliding.....	E. Muchmore.....	552,879	Jan. 7	720	175	74	135
Door system. Trolley.....	H. B. Newhall.....	570,711	Nov. 3	540	126	77	739
Door-track. Sliding.....	J. W. Conchar.....	555,848	Mar. 3	602	143	74	1241
Doors, &c. Apparatus for manufacturing.....	W. W. Grier.....	570,992	Nov. 10	1028	240	77	858
Doors. Device for automatically controlling closing hatchway or other.....	F. F. Jackson.....	554,517	Feb. 11	1271	298	74	756
Doors or window-sashes. Construction of.....	H. A. Cordray.....	564,780	July 28	2701	642	76	544
Double-shell tube.....	W. T. Mersereau.....	558,651	Apr. 21	2002	484	75	410
Doubletree.....	G. G. F. Boswell.....	567,939	Sept. 15	2087	503	76	1699
Doubletree. Spring.....	E. L. Lidke.....	557,332	Mar. 31	3305	793	74	1818
Doubling machine. Warp.....	J. MacCallum.....	558,411	Apr. 14	1581	386	75	315
Douche. Nasal.....	M. G. Melvin.....	555,107	Feb. 25	2333	554	74	989
Dough-board and bread-cutting tray. Combined.....	F. S. Farquhar.....	571,349	Nov. 17	1644	391	77	988
Dough-dividing machine.....	H. F. W. Hueg.....	560,718	May 26	2540	584	75	1234
Dough-dropping machine.....	E. J. Arnold.....	560,885	May 26	2851	653	75	1294
Dough. Machine for forming loaves of.....	H. M. L. Anderson and J. Nelson.....	558,337	Apr. 14	1454	357	75	292
Dough-mixer.....	W. B. Edwards and G. E. Potter.....	569,449	Oct. 13	1256	295	77	254
Dough-moistening machine.....	J. W. Ruger.....	558,987	Apr. 28	2586	629	75	536
Dough-molding machine.....	G. Lewis and C. E. Pointon.....	571,775	Nov. 24	2389	571	77	1144
Dough preparing and shaping machine.....	H. F. W. Hueg.....	554,273	Feb. 11	852	195	74	678
Dough-twisting machine.....	N. E. Drake.....	559,323	Apr. 28	3228	780	75	657
Dowel-cutter.....	T. Nichols.....	553,624	Jan. 28	2037	462	74	425
Dowel pin and joint.....	H. H. Rockwell.....	569,235	Oct. 13	899	215	77	188
Dowel-pin for pattern-makers. Metallic.....	W. N. Gartside.....	573,970	Dec. 29	3405	816	77	1969
Dowel-pins. Machine for making.....	H. H. Rockwell.....	569,234	Oct. 13	896	214	77	187
Downdraft-furnace.....	J. O'Brien.....	557,419	Mar. 31	3462	830	74	1849
Downdraft-kiln.....	H. A. Wheeler.....	553,947	Feb. 4	267	59	74	554
Draft appliance.....	J. B. Kennedy.....	570,484	Nov. 3	87	20	77	655
Draft. Bank.....	M. M. Kallman.....	563,490	July 7	433	100	76	83
Draft-equalizer.....	J. W. Gamble.....	561,076	May 26	3150	728	75	1350
Draft-equalizer.....	C. P. Houtsuma.....	559,286	Apr. 28	3163	764	75	645
Draft-equalizer.....	S. A. Miller.....	554,285	Feb. 11	874	201	74	682
Draft-equalizer.....	N. H. Nelson.....	566,008	Aug. 18	1956	474	76	1022
Draft-equalizer.....	L. J. Seivison.....	555,622	Mar. 3	235	55	74	1173
Draft-producer.....	J. A. Clinton.....	560,475	May 19	2075	472	75	1132
Draft-regulating mechanism. Automatic.....	W. E. Nageborn.....	564,935	July 28	2965	706	76	593
Draft-regulator.....	J. S. Fox.....	566,073	Aug. 18	2051	500	76	1039
Draft-regulator.....	H. Stutsman.....	557,715	Apr. 7	336	80	75	65
Draft-regulator.....	F. H. Treat.....	569,254	Oct. 13	930	222	77	193
Draft-regulator and spark-arrester. Combined.....	R. Deissler.....	570,985	Nov. 10	1015	236	77	856
Draft-rigging.....	W. Case.....	564,867	July 28	2843	621	76	571
Draft-rigging.....	T. Eubank.....	570,987	Nov. 10	1018	237	77	856
Draft-rigging.....	W. M. Piper.....	566,935	Sept. 1	344	80	76	1348
Draft-screen.....	C. Y. Taylor.....	566,815	Sept. 1	128	31	76	1305
Drafting device.....	T. F. Horrigan.....	555,287	Feb. 25	2651	620	74	1048
Drafting-plate. Tailor's.....	J. R. Storey.....	552,976	Jan. 14	907	221	74	184
Drain.....	J. Franklin.....	568,195	Sept. 22	2574	619	76	1801
Drainer. Cellar.....	W. Lee.....	573,014	Dec. 15	1628	391	77	1627
Draw-bar.....	J. S. Stout.....	568,378	Sept. 29	2886	693	76	1876
Draw-bar attachment.....	A. D. Stentiford.....	559,228	Apr. 28	3072	741	75	628
Draw-bar lift.....	J. Schultz.....	571,540	Nov. 17	1975	470	77	1047
Draw-gear and buffing apparatus.....	F. Moore.....	556,197	Mar. 10	1275	298	74	1385
Draw-plate.....	J. Hudson.....	569,335	Oct. 13	1071	254	77	221
Drawer and support therefor.....	W. A. McCool and W. G. Algeo, Jr.....	567,606	Sept. 15	1529	368	76	1591
Drawer attachment.....	D. E. Hunter and H. E. Davidson.....	573,978	Dec. 29	3418	819	77	1991
Drawer. Desk.....	A. L. Smith.....	567,693	Sept. 15	1672	402	76	1620
Drawer for holding documents, &c.....	W. Horrocks.....	553,031	Jan. 14	987	239	74	199
Drawer-pull.....	T. G. Knight.....	573,665	Dec. 22	2854	673	77	1873
Drawer-support. Antifriction.....	E. Schoup.....	562,491	June 23	2488	603	75	1898
Drawer-support. Sliding.....	J. C. Kimball.....	562,768	June 23	2971	719	75	1990
Drawers. Adjustable partition for.....	F. Hamilton.....	573,461	Dec. 22	2473	586	77	1801
Drawers. Night.....	L. Conant.....	560,893	May 26	2866	657	75	1296
Drawers. Night.....	C. Arnold.....	569,483	Oct. 13	1306	307	77	263
Drawing-board.....	D. B. Benedict.....	572,739	Dec. 8	1159	278	77	1518
Drawing-board.....	R. B. Cochrane.....	565,433	Aug. 11	868	205	76	797
Drawing-board.....	J. O. Poole.....	564,840	July 28	2791	665	76	561
Drawing instrument.....	L. Picard.....	559,041	Apr. 28	2683	654	75	555
Drawing press.....	P. F. Holmgren.....	562,360	June 16	2279	553	75	1843
Drawing-press. Hydraulic.....	L. Schuler.....	570,063	Oct. 27	2363	562	77	485
Drawing-table.....	S. J. Langhlin and J. Hough.....	563,931	July 14	1218	285	76	242
Dredge. Flour or condiment.....	W. D. F. Loryea.....	572,362	Dec. 1	488	114	77	1371
Dredge. Suction.....	J. H. Bacon.....	567,443	Sept. 8	1259	304	76	1526
Dredger.....	P. Bunau-Varilla.....	568,234	Sept. 22	2640	634	76	1814
Dredger.....	G. H. Nichols.....	563,876	July 14	1115	262	76	224
Dredger-sleeve.....	A. L. Horner.....	562,963	June 30	3366	810	75	2087
Dredgers and excavators. Dipper-tooth for steam.....	G. Trim and J. F. Pryor.....	564,664	July 28	2492	589	76	509
Dredging and excavating apparatus.....	G. H. Breymann.....	558,769	Apr. 21	2303	530	75	447
Dredging apparatus.....	L. Hussey.....	555,704	Mar. 3	372	86	74	1196
Dredging apparatus.....	G. D. Miller.....	562,232	June 16	2058	498	75	1802

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Dredging apparatus	W. B. Pless	572,769	Dec. 8 1205	{ 291		77	1526
Dredging apparatus	A. D. Stevens	558,118	Apr. 14 1089	{ 292		75	223
Dredging apparatus	H. S. Wood and R. A. Perry	557,178	Mar. 31 3011	{ 267		74	1767
Dredging apparatus. Hydraulic	A. W. Robinson	566,473	Aug. 25 2791	{ 678		76	1195
Dredging-bucket	W. A. Collins	572,651	Dec. 8 987	{ 679		77	1486
Dredging-machine	F. B. Barrows	552,810	Jan. 7 590	{ 238		74	110
Dredging-machine	S. A. Hill	554,510	Feb. 11 1262	{ 295		74	755
Dredging-machine	C. H. Olson	573,832	Dec. 22 3137	{ 296		77	1926
Dredging-machine	W. T. Urie	559,154	Apr. 28 2920	{ 747		75	600
Dress-case. Telescoping	B. Nusbaum and S. Feldenheimer	561,808	June 9 1336	{ 705		75	1647
Dress-facing and skirt-binding. Combined	A. M. Weber	562,943	June 30 3317	{ 706		75	2076
Dress-fastener for closing ladies' dresses	W. Luft	567,348	Sept. 8 1097	{ 798		76	1497
Dress-protector	L. M. Leeds	565,759	Aug. 11 1489	{ 264		76	912
Dress-protector	G. H. Taylor	560,241	May 19 1655	{ 364		75	1059
Dress-shield	D. Basch	569,599	Oct. 20 1541	{ 377		77	321
Dress-shield	V. Lavallette	555,383	Feb. 25 2811	{ 361		74	1078
Dress-shield	B. F. Sutton	561,067	May 26 3139	{ 725		75	1348
Dress-shield	D. H. Warner	560,389	May 19 1742	{ 396		75	1074
Dress-shield	I. Wormer	567,285	Sept. 8 977	{ 396		76	1476
Dress-shield clasp	F. F. Hurd	572,508	Dec. 1 732	{ 174		77	1417
Dress-shield fastener	P. W. Nefflen	561,125	June 2 83	{ 22		75	1383
Dressing-bag	W. F. Williams	573,742	Dec. 22 2962	{ 706		77	1897
Dressmaker's stand	A. L. Jones	570,931	Nov. 10 933	{ 217		77	841
Drier:							
See Clothes-drier. Lumber-drier.							
Fruit-drier. Malt-drier.							
Garbage-drier. Ore-drier.							
Grain-drier. Paper-drier.							
Hair-drier. Sand-drier.							
Hop-drier.							
Drier	F. L. Bigelow	555,756	Mar. 3 456	{ 108		74	1212
Drier	M. A. Cornes	560,975	May 26 2991	{ 109		75	1320
Drier	W. J. Hall and J. W. Casper	567,386	Sept. 8 1169	{ 687		76	1509
Drier	T. T. Oliver	561,175	June 2 186	{ 280		75	1402
Drier	C. E. Ord	568,696	Sept. 29 3473	{ 46, 47		76	1985
Drier	F. J. Wing	563,348	July 7 200	{ 831		76	41
Dry-kiln	A. T. Bemis	555,067	Feb. 25 2252	{ 45		74	972
Dry-kiln	A. T. Bemis	563,704	July 7 789	{ 188		76	148
Dry-kiln	V. L. Emerson	554,251	Feb. 11 816	{ 189		74	671
Dry-kiln	A. S. Nichols	553,928	Feb. 4 237	{ 51		74	549
Dry-kiln	J. F. Oldfield	568,987	Oct. 6 475	{ 107		77	91
Dry-kilns. Steam heating-pipe for	V. L. Emerson	565,856	Aug. 11 1665	{ 408		76	946
Drying and filtering machine. Centrifugal	C. A. Snider	569,677	Oct. 20 1681	{ 398		77	349
Drying apparatus	C. B. McDonald	568,096	Sept. 22 2406	{ 579		76	1770
Drying apparatus	W. G. Stone	554,743	Feb. 18 1659	{ 580		74	847
Drying apparatus	G. Stucky	565,522	Aug. 11 1067	{ 391		76	833
Drying-closet	J. McGlone	564,254	July 21 1792	{ 256		76	363
Drying-frame. Shirt	H. A. Rowland	571,537	Nov. 17 1971	{ 257		77	1047
Drying-furnace	W. P. Taggart	562,345	June 16 2260	{ 469		75	1839
Drying-kiln	L. Moore	554,134	Feb. 4 619	{ 548		74	618
Drying-kilns. Heating system for	A. T. Bemis	563,641	July 7 677	{ 140		76	127
Drying-machine. Centrifugal	M. S. Ayau	557,939	Apr. 7 727	{ 159		75	137
Drying-machine. Steam	H. Cutler	567,887	Sept. 15 1999	{ 479		76	1684
Drying machine. Wadding	O. E. Drown	554,585	Feb. 11 1386	{ 480		74	779
Drying materials. Method of and apparatus for	H. W. Rappleye	566,797	Sept. 1 101	{ 326		76	1299
Drying process	H. C. Zappert	560,561	May 19 2212	{ 25		75	1156
Drying-rack	J. Marshall	563,605	July 7 625	{ 506		76	117
Drying textile articles. Device for	C. Pease	568,874	Oct. 6 278	{ 146		77	54
Drying-tray	H. A. Orr	572,660	Dec. 8 1002	{ 64		77	1489
Drift-bolt or railway-track-spike drawer	H. N. Lewis	556,469	Mar. 17 1804	{ 242		74	1500
Drill:							
See Bench-drill. Ratchet-drill.							
Breast-drill. Reciprocating drill.							
Corn-drill. Rock-drill.							
Electric drill. Rock and coal drill.							
Grain-drill. Seed-drill.							
Hand-drill. Track-drill.							
Mining-drill. Traveling swing-drill.							
Multiple drill. Twist-drill.							
Press-drill. Well-drill.							
Radial drill. Wheat-drill.							
Drill	C. Blakely	554,209	Feb. 4 737	{ 167		74	640
Drill	J. J. Crist	556,252	Mar. 10 1368	{ 168		74	1402
Drill	G. H. Fuller	568,067	Sept. 22 2345	{ 322		76	1758
Drill	W. Olds	566,327	Aug. 25 2870	{ 586		76	1370
Drill attachment	F. W. Williams	561,036	May 26 3093	{ 697		75	1339
Drill-bits, &c. Tool for handling	J. Barrett	561,305	June 2 427	{ 713		75	1452
Drill-column	A. Ball	568,470	Sept. 29 3035	{ 106		76	1904
Drill-column	A. Ball	568,471	Sept. 29 3037	{ 728		76	1904
Drill-jack	G. W. Lovell	559,730	May 5 636	{ 729		75	803
Drill-puller	C. H. Johnson	557,824	Apr. 7 539	{ 152		75	101
Drill-rod coupling	J. T. Moran	573,433	Dec. 15 2411	{ 129		77	1771

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Vol.	Official Gazette.
				Spec.	Dr. g.		
Drill-tetrapod.....	A. E. W. Meissner.....	573,608	Dec. 22	2722	647	77	1849
Drills. Driving mechanism for.....	F. Milliken.....	569,115	Oct. 6	677	152	77	129
Drills. Machine for cutting grooves in twist.....	O. Parpart.....	558,205	Apr. 14	1230	300	75	249
Drills, &c. Machine for cutting twist.....	H. C. Peters.....	569,565	Oct. 13	1469	346	77	293
Drills. Machine for making twist.....	E. E. Claussen.....	566,966	Sept. 1	397	92, 93	76	1358
Drills. Rotary support for.....	W. J. Mewer.....	566,923	Sept. 1	323	76	76	1344
Drilling apparatus.....	W. L. Finfeld.....	555,442	Feb. 25	2931	696	74	1100
Drilling-machine.....	C. H. Baush.....	563,545	July 7	522	121	76	99
Drilling-machine.....	W. Bynon.....	573,808	Dec. 22	3081	732	77	1916
Drilling-machine.....	W. R. Fox.....	564,479	July 21	2170	508	76	430
Drilling-machine.....	L. Fritz and A. Bohy.....	564,879	July 23	2559	685	76	574
Drilling-machine.....	A. W. Kinney.....	558,497	Apr. 21	1745	423	75	363
Drilling-machine.....	A. C. Liebendorfer.....	554,940	Feb. 18	2010	476	74	913
Drilling-machine.....	A. Schiefer.....	561,346	June 2	505	126	75	1467
Drilling-machine. Reciprocating.....	A. E. W. Meissner.....	555,254	Feb. 25	2583	696	74	1035
Drilling-machine. Slot.....	J. C. Harrison.....	570,091	Oct. 27	2420	573	77	497
Drilling or boring tool.....	B. and T. Wesselmann.....	571,253	Nov. 10	1482	348	77	942
Drilling wells, tunnels, &c. Electrical apparatus for.....	P. Semmer.....	556,718	Mar. 17	2292	515	74	1574
Drink-mixer.....	J. L. Nelson.....	562,018	June 16	1699	413	75	1736
Drinks. Apparatus for producing carbonic-acid.....	H. Hauser and O. Bünzli.....	566,172	Aug. 18	2217	540	76	1070
Drinking-cup. Invalid's.....	P. J. McDonough and T. E. Shelly.....	560,916	May 26	2901	665	75	1303
Drinking-fountain.....	E. M. Christ.....	568,835	Oct. 6	202	49	77	40
Drinking vessel.....	H. Bauer.....	563,640	July 7	676	159	76	127
Drip-conduit.....	M. A. Gilbert.....	557,576	Apr. 7	87	22	75	18
Drive-gate.....	T. A. Hill.....	559,708	May 5	599	142	75	796
Drive-gate.....	H. W. Ragsdale.....	562,912	June 30	3252	785	75	2061
Drive mechanism for machines in series. Successive.....	G. E. Henry.....	569,414	Oct. 13	1206	244	77	245
Driving-band.....	T. C. Dennison.....	556,663	Mar. 17	2119	495	74	1558
Driving device. Reversing.....	F. H. Richards.....	558,661	Apr. 21	2016	488	75	413
Driving mechanism.....	J. Grimm.....	561,260	June 2	309	78	75	1428
Driving mechanism for propulsion of wheels.....	C. H. O. Hamann.....	564,194	July 21	1699	397	76	345
Dropper:							
See Poison-dropper.							
Drum.....	G. W. Bemis.....	570,693	Nov. 3	515	120	77	734
Drum.....	E. Boulanger.....	573,320	Dec. 15	2189	523	77	1730
Drum. Heat-radiating.....	J. P. Lynott.....	557,211	Mar. 31	3092	741	74	1779
Drum. Heat-regulating.....	E. H. Donaldson.....	566,149	Aug. 18	2187	532	76	1064
Ductile articles. Mechanism for ornamenting.....	S. H. Leavenworth.....	562,309	June 16	2187	531	75	1826
Dumb-bell.....	L. Metzger.....	560,517	May 19	2136	488	75	1143
Dumb waiter.....	A. Larsen.....	556,992	Mar. 24	2656	633	74	1682
Dump. Cradle.....	D. C. Boyce.....	560,567	May 19	2219	507	75	1158
Dumping apparatus.....	J. R. Wilson.....	565,399	Aug. 4	812	192	76	767
Duplex forming machine.....	G. C. Bardons, J. G. Oliver and G. W. Drake.....	553,802	Jan. 28	2333	554	74	480
Duplex tube.....	J. T. Thorpe.....	554,322	Feb. 11	938	216	74	694
Dust and draft arrester.....	H. C. Schoyer.....	567,922	Sept. 15	2043	490	76	1692
Dust-bag.....	D. Hunt.....	569,830	Oct. 20	1958	466	77	397
Dust-collecting machine.....	H. J. Livergood. (Reissue).....	11,528	Mar. 31	3660	876	74	1885
Dust-collector.....	W. E. Allington.....	570,443	Nov. 3	2	1	77	639
Dust-collector.....	A. C. Brantingham.....	566,737	Sept. 1	9	2, 3	76	1282
Dust-collector.....	J. M. Case.....	563,709	July 7	796	190	76	149
Dust-collector.....	W. D. Gray.....	567,341	Sept. 8	1086	261	76	1496
Dust-collector.....	W. R. Marshall.....	556,357	Mar. 17	1603	374	74	1461
Dust-collector same.....	E. Miller.....	554,891	Feb. 18	1928	454	74	898
Dust-collector.....	F. Prinz.....	560,107	May 12	1406	316	75	962
Dust-collector.....	F. Prinz.....	560,108	May 12	1410	317	75	963
Dust-collector.....	E. B. Whitmore.....	573,837	Dec. 22	3143	749	77	1927
Dust-collector.....	J. W. Wilson.....	568,968	Oct. 6	432	96	77	83
Dust collector and separator.....	R. W. Maske.....	561,599	June 9	963	230	75	1578
Dust-collector cleaner.....	F. G. Gauntt.....	566,978	Sept. 1	430	101	76	1363
Dust-collector cleaner.....	J. F. Staiger and G. W. Grabert.....	572,620	Dec. 8	936	227	77	1476
Dust from cars, rooms, or buildings. Apparatus for removing.....	J. R. Young and J. P. Douglass.....	566,554	Aug. 25	2910	710	76	1218
Dust-guard.....	D. Focer.....	571,354	Nov. 17	1655	392	77	990
Dust-pan.....	A. C. Gerow.....	573,460	Dec. 22	2472	586	77	1800
Dust-pan.....	G. H. Gerow.....	561,219	June 2	248	59	75	1416
Dust-pan.....	W. J. Hopkins.....	572,343	Dec. 1	449	105	77	1364
Dust-pan.....	D. Hunt.....	569,829	Oct. 20	1957	466	77	397
Dust-pan.....	A. Koehler.....	570,026	Oct. 27	2294	544	77	472
Dust-pan.....	A. V. Parker.....	567,357	Sept. 8	1121	269	76	1501
Dust-pan.....	S. T. Percy.....	572,180	Dec. 1	150	37	77	1307
Dust-pan.....	E. S. Rothrock.....	561,917	June 9	1520	368	75	1682
Dust-pan.....	E. H. Whitney.....	554,848	Feb. 13	1845	434	74	824
Dust-pan and ventilator. Combined.....	F. M. Rector.....	554,537	Feb. 11	1300	306	74	762
Dust-pan attachment.....	S. F. Williams.....	565,059	Aug. 4	166	39	76	648
Dust-separator.....	M. G. Davis.....	556,534	Mar. 17	1931	450	74	1523
Dust-separator.....	A. C. Lynch and G. W. Christoph.....	567,988	Sept. 22	2181	525	76	1729
Dye and making it. Azin.....	R. Reyher.....	559,062	Apr. 23	2714	.....	75	561
Dye and making it. Azin.....	R. Reyher.....	559,063	Apr. 28	2715	.....	75	561
Dye and making same. Alizarin.....	R. Brasch.....	569,404	Oct. 13	1188	.....	77	242
Dye and making same. Black azo.....	A. Blank, A. Israel, and M. Herzberg.....	561,694	June 9	1126	.....	75	1608
Dye and making same. Blue.....	H. Laubmann.....	569,418	Oct. 13	1210	.....	77	246
Dye and making same. Brown diazo.....	C. Ris.....	567,413	Sept. 8	1212	.....	76	1518
Dye and making same. Gray.....	C. Ris and C. Simon.....	556,164	Mar. 10	1216	.....	74	1374
Dye and making same. Green alizarin.....	R. Brasch.....	569,405	Oct. 13	1190	.....	77	242
Dye and making same. Red.....	H. A. Bernthsen and P. Julius.....	555,359	Feb. 25	2772	74	1071

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dis.	Vol.	Page
Dye. Azine	R. Reyher	557,032	Mar. 24	2754	.....	74	1695
Dye. Azo	F. Krecke and I. Rosenberg	563,383	July 7	252	.....	76	51
Dye. Black	M. Ulrich	560,334	May 19	1825	.....	75	1087
Dye. Black	A. Weinberg	560,449	May 19	2030	.....	75	1124
Dye. Black azo	M. Herzberg, A. Blank, and A. Israel	561,709	June 9	1159	.....	75	1615
Dye. Black azo	A. Weinberg	560,448	May 19	2029	.....	75	1124
Dye. Black triazo	C. Ris	571,933	Nov. 24	2682	.....	77	1200
Dye. Black trisazo	J. Schmid	557,437	Mar. 31	3490	.....	74	1854
Dye. Blackish-blue azo	M. Hoffmann	560,796	May 26	2678	.....	75	1260
Dye. Blue	J. Bammann and M. Ulrich	556,298	Mar. 10	1487	.....	74	1424
Dye. Blue	H. A. Bernthsen and P. Julius	558,344	Apr. 14	1464	.....	75	294
Dye. Blue	B. Heymann	560,795	May 26	2677	.....	75	1260
Dye. Blue	J. Schmid	557,435	Mar. 31	3488	.....	74	1854
Dye. Blue	J. Schmid	557,436	Mar. 31	3489	.....	74	1854
Dye. Blue	J. Schmid	557,438	Mar. 31	3491	.....	74	1855
Dye. Blue azo	F. Rünkel	567,615	Sept. 15	1540	.....	76	1593
Dye. Blue-black disazo	J. Schmid	557,440	Mar. 31	3492	.....	74	1855
Dye. Blue tetrazo	F. Krecke and I. Rosenberg	563,385	July 7	253	.....	76	51
Dye. Brown azo	C. Rudolph	558,612	Apr. 21	1936	.....	75	399
Dye. Brown azo	C. Rudolph	558,614	Apr. 21	1938	.....	75	399
Dye. Dark-green	J. Schmid and K. Jedlicka	562,200	June 16	2010	.....	75	1793
Dye. Disazo	F. Krecke and I. Rosenberg	563,384	July 7	252	.....	76	51
Dye from dinitro-anthrachryson-disulfo-acid.	H. Laubmann	555,904	Mar. 3	710	.....	74	1262
Dye. Greenish-blue	T. Sandmeyer	564,801	July 28	2733	.....	76	550
Dye. Greenish-blue tetrazo	F. Krecke and I. Rosenberg	563,386	July 7	253	.....	76	51
Dye of rosindulin series. Red	W. Herzberg and H. Heimann	567,473	Sept. 8	1303	.....	76	1535
Dye. Oxyquinolin azo	C. Rudolph	558,613	Apr. 21	1937	.....	75	399
Dye. Polyazo black	J. Schmid	557,439	Mar. 31	3492	.....	74	1855
Dye. Red	T. Sandmeyer	573,299	Dec. 15	2148	.....	77	1722
Dye. Red azo	F. Runkel	561,615	June 9	991	.....	75	1583
Dye. Sulfureted	A. F. Poirrier	561,276	June 2	343	.....	75	1436
Dye. Sulfureted	A. F. Poirrier	561,277	June 2	345	.....	75	1436
Dye. Trisazo	C. Rudolph	572,723	Dec. 8	1128	.....	77	1512
Dye. Yellow	C. Rudolph and E. Voges	568,549	Sept. 29	3198	.....	76	1932
Dyes in fabrics. Fixing	H. L. Brevoort	558,718	Apr. 21	2117	.....	75	431
Dyeing and shrinking. Art of and apparatus for electric	G. D. Burton	557,326	Mar. 31	3295	790	74	1816
Dyeing anilin-black	V. G. Bloede	570,117	Oct. 27	2460	.....	77	504
Dyeing apparatus	J. Berger	573,755	Dec. 22	2998	710	77	1901
Dyeing apparatus	C. Corron	563,569	July 7	571	132	76	107
Dyeing apparatus	C. A. Hunt, Jr.	564,619	July 28	2426	571 572	76	495
Dyeing apparatus	J. H. Lorimer	570,488	Nov. 3	93	21, 22	77	656
Dyeing apparatus	H. A. Metz	573,229	Dec. 15	2014	483	77	1699
Dyeing apparatus	L. Weldon	566,258	Aug. 18	2352	576 577	76	1097
Dyeing, &c. Apparatus for	L. Frotscher	552,638	Jan. 7	228	83	74	45
Dyeing apparatus. Yarn	J. C. Blundell	560,019	May 12	1230	275	75	928
Dyeing. Art of and apparatus for electro	G. D. Burton	557,325	Mar. 31	3294	790	74	1816
Dyeing. Electric	G. D. Burton	557,324	Mar. 31	3292	790	74	1815
Dyeing-machine cloth-spreader	G. Lies	562,831	June 30	3106	752	75	2032
Dyeing machine. Yarn	J. C. Blundell	554,646	Feb. 18	1502	352 353 354	74	816
Dyeing machine. Yarn	J. C. Blundell	560,020	May 12	1232	276 277	75	928
Dyeing machine. Yarn	J. W. Grant	563,165	June 30	3713	888	75	2152
Dyeing machine. Yarn	J. G. Haslam	556,184	Mar. 10	1254	292 293	74	1380
Dyeing machine. Yarn	M. H. Masland	555,609	Mar. 3	212	49	74	1169
Dyeing machinery	A. Falkenau and H. L. Hund	560,125	May 12	1434	323 324	75	967
Dyeing phenetidin-red	E. Ullrich and M. von Gallois	569,395	Oct. 13	1168	.....	77	239
Dyeing. Process of and apparatus for	L. Le Blois and G. Piceni	570,316	Oct. 27	2867	680	77	580
Dyeing skeins. Apparatus for	W. J. Gleason and J. H. Bower	569,453	Oct. 13	1260	296 297	77	254
Dyeing. Vapor	V. G. Bloede	570,115	Oct. 27	2458	.....	77	504
Dyeing. Vapor	V. G. Bloede	570,116	Oct. 27	2459	.....	77	504
Dyeing with indigo	E. Cabiati	559,163	Apr. 28	2935	.....	75	603
Dyer's basket	C. M. Green	572,634	Dec. 8	963	232	77	1481
Dynamo. Alternating-current	M. Hutin and M. Leblanc	564,200	July 21	1707	399	76	347
Dynamo brush. Arc	H. H. Wait	563,337	July 7	187	41, 42	76	38
Dynamo brush-holder	W. M. Hand	569,824	Oct. 20	1950	464	77	395
Dynamo. Inductor	C. P. Steinmetz	559,419	May 5	133	28	75	707
Dynamo. Inductor	C. P. Steinmetz. (Reissue)	11,576	Nov. 24	3021	707	77	1260
Dynamo voltage-regulator	T. M. Pusey	574,217	Dec. 29	3890	926	77	2076
Dynamometer	G. W. Lewin	557,133	Mar. 31	2933	702	74	1753
Dynamometer. Registering	G. W. Lewin	560,271	May 19	1712	389	75	1069
Dynamos or motors. Wire-gauze brush for	A. B. Soar and E. W. Collier	556,870	Mar. 24	2486	586	74	1644
Ear-ring	V. Jansky	561,893	June 9	1487	358	75	1676
Earth and earth alkali metals into indissoluble organic or inorganic salts, &c. Electrolytic process of converting hydroxids of	R. Langhans	571,533	Nov. 17	1959	.....	77	1045
Earth-closet	C. Fischer	553,060	Jan. 14	1042	253	74	209
Earth, &c. Collecting and transporting	A. S. Hallide	558,645	Apr. 21	1926	482	75	407
Earthenware connection	W. M. Gilmore	566,074	Aug. 18	2053	500	76	1040
Earthy oxids. Producing coatings composed of	R. Langhans	571,531	Nov. 17	1954	466	77	1044
Earthy oxids. Producing coatings composed of	R. Langhans	571,532	Nov. 17	1957	.....	77	1045
Easel	G. L. R. Dahlberg	569,410	Oct. 13	1202	221	77	244
Easel	G. L. R. Dahlberg	574,242	Dec. 29	3938	937	77	2085
Easel	T. Fillebrown	571,068	Nov. 10	1157	270	77	882
Easel	W. E. and J. Marhoff	562,138	June 16	1905	461	75	1773
Easel attachment	G. A. Robbins	573,703	Dec. 22	2918	689 690	77	1885

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Base-support for books, &c.	W. A. Holman	571,045	Nov. 10	1121	262	77	876
Beaves-troughs. Apparatus for forming	C. F. Throm	557,348	Mar. 31	3335	800	74	1825
Eccentric	D. T. Lane	556,680	Mar. 17	2148	502	74	1564
Eccentric	C. Linstrom	565,169	Aug. 4	410	99	76	693
Eccentric	W. N. Reazor	552,547	Jan. 7	74	21	74	17
Eccentric-strap	F. Mertsheimer	557,687	Apr. 7	291	70	75	55
Edge-finishing machine	S. D. Tripp	566,819	Sept. 1	132	32	76	1306
Edge-finishing machine	S. D. Tripp. (Reissue)	11,580	Dec. 29	4146	{ 984 985 }	77	2124
Edge-runner mill	H. Mantey	573,890	Dec. 29	3242	772	77	1960
Edge-setting machine	H. A. Oldershaw	571,602	Nov. 17	2072	497	77	1065
Edge-setting tool	H. Daniel	553,777	Jan. 28	2295	544	74	473
Edge-tool	J. R. Mann	561,400	June 2	611	152	75	1486
Edged tools. Manufacturing	W. K. Thompson	566,037	Aug. 18	1995		76	1030
Educational appliance	S. P. Barnard	560,964	May 26	2979	684	75	1318
Educational appliance	H. Eckhardt	572,972	Dec. 15	1562	375	77	1614
Educational appliance	J. B. Lord	553,533	Jan. 28	1882	445	74	397
Educational appliance	W. E. Munson	563,872	July 14	1107	261	76	222
Educational appliance	A. E. Shaw	555,026	Feb. 18	2170	517	74	941
Educational appliance	F. Sheppard	564,396	July 21	2036	478	76	407
Egg and packing separator	A. W. McFarland	556,431	Mar. 17	1740	404	74	1488
Egg-beater, &c.	S. E. Cripe	554,170	Feb. 4	684	154	74	630
Egg-beater	H. A. Dalrymple and P. C. McGrath	563,139	June 30	3672	879	75	2144
Egg-beater	F. Kohlenberg	570,668	Nov. 3	470	110	77	726
Egg-beater	H. W. Mason	567,909	Sept. 15	2023	486	76	1689
Egg-carrier	J. W. Almack	572,466	Dec. 1	665	157	77	1405
Egg-case	M. E. Chamberlain	564,914	July 28	2908	697	76	583
Egg-case fastener	W. D. Mayfield	565,115	Aug. 4	291	69	76	671
Egg-case. Safety	J. Matheny	569,760	Oct. 20	1848	438	77	376
Egg-caster	G. W. Spurr	557,622	Apr. 7	162	42	75	32
Egg-cutter	K. Hedberg	562,605	June 23	2703	654	75	1938
Egg-cutter guide and holder	H. B. Everest	560,402	May 19	1946	444	75	1109
Egg-tester	S. I. Bitting	564,300	July 21	1869	438	76	376
Egg-tester	C. E. Lindquist	558,290	Apr. 14	1377	336	75	278
Egg-tester	I. and J. Miller	561,906	June 9	1505	364	75	1679
Egg-tester	J. L. Ritter	563,804	July 14	968	230	76	198
Egg-tester	J. Schneberger and V. Kotva	569,941	Oct. 20	2155	{ 510 511 }	77	433
Egg-tester	J. H. Smith and W. A. Landis	573,305	Dec. 15	2170	518	77	1736
Egg-whipper	G. T. Cook	565,260	Aug. 4	596	140	76	724
Egg-whisk	T. A. Moody	567,684	Sept. 15	1659	399	76	1618
Eggs and apparatus for turning them to keep them fresh. Storing	T. R. C. Christianson	559,676	May 5	550	{ 128 129 }	75	787
Eggs. Preserving	H. Bierer	558,253	Apr. 14	1317		75	266
Elastic cord and making same	A. M. Ziegler	563,001	June 30	3422	823	75	2098
Elastic fabrics. Producing	R. Plechner	554,535	Feb. 11	1299	306	74	762
Elbow	O. P. Briggs	555,494	Mar. 3	21	5	74	1134
Elbow	C. L. Laubsch	568,537	Sept. 29	3177	765	76	1928
Elbow-making machine	O. P. Briggs	555,493	Mar. 3	15	4, 5	74	1133
Election-booth	C. G. Weber	573,250	Dec. 15	2045	490	77	1705
Electric accumulators. Manufacture of plates for	J. Körner	571,598	Nov. 17	2065		77	1064
Electric accumulators. Paste-carrying plate for	F. W. Schneider	564,652	July 28	2476	584	76	505
Electric alarm. Automatic	T. J. Stansel	552,733	Jan. 7	418	{ 106 107 }	74	81
Electric alarm. Automatic	G. B. Williams	552,203	Jan. 7	562	136	74	106
Electric-arc-light globe	S. Heimann	565,269	Aug. 4	607	143	76	727
Electric-arc lighting	G. R. Lean	553,919	Feb. 4	223	48	74	546
Electric-arc lighting	G. R. Lean	553,921	Feb. 4	226	49	74	547
Electric-arc lighting	G. R. Lean. (Reissue)	11,559	July 21	2357	{ 554 555 }	76	463
Electric-arc-lighting system	G. R. Lean	553,920	Feb. 4	225	49	74	547
Electric arcs. Controlling	E. Thomson	571,463	Nov. 17	1830	{ 436 437 }	77	1022
Electric arcs. Extinguishing	W. B. Potter	568,459	Sept. 29	3021	725	76	1901
Electric automatic brake. Aero.	C. Luyers	563,934	July 14	1222	286	76	243
Electric band	J. E. Luce	569,649	Oct. 20	1632	386	77	339
Electric battery	C. J. Hirlmann	554,124	Feb. 4	602	136	74	614
Electric battery	J. W. T. Olan	553,719	Jan. 28	2199	522	74	454
Electric battery	A. E. Stephenson	573,493	Dec. 22	2527	599	77	1810
Electric battery	H. C. Thomson	568,007	Sept. 22	2220	536	76	1736
Electric battery	D. S. Williams and H. M. Hamrick	554,043	Feb. 4	438	97	74	585
Electric battery	C. Willms	554,759	Feb. 18	1696	399	74	854
Electric battery	C. Willms	554,760	Feb. 18	1698	399	74	854
Electric battery and sealing battery-cells	C. Willms	554,761	Feb. 18	1700	399	74	855
Electric boiler	F. W. Schindler-Jenny	559,223	Apr. 28	3066	740	75	627
Electric bond	M. J. Wightman	569,266	Oct. 13	948	227	77	196
Electric brake	A. F. Macdonald	567,989	Sept. 22	2182	{ 525 526 }	76	1730
Electric brake	W. B. Potter	560,428	May 19	1994	{ 455 456 }	75	1118
Electric brake	W. B. Potter	560,751	May 26	2591	597	75	1244
Electric brake	E. A. Sperry	565,937	Aug. 18	1817	{ 441 442 }	76	994
Electric brake	E. A. Sperry	571,409	Nov. 17	1738	415	77	1005
Electric brake. Emergency	B. F. Card	562,118	June 16	1876	455	75	1767
Electric cable	F. Borel	573,176	Dec. 15	1916	480	77	1681
Electric cable	T. Guillaume	554,263	Feb. 11	835	191	74	674
Electric cable	T. Guillaume	563,274	July 7	68	17	76	82
Electric cable	S. P. Thompson	568,964	Oct. 6	426	95	77	82
Electric cable	S. P. Thompson	571,706	Nov. 17	2249	540	77	1098
Electric cable	S. P. Thompson	571,707	Nov. 17	2251	{ 540 541 }	77	1099
Electric cable conductor and sheave-wheel	J. F. Place	566,697	Aug. 25	3119	762	76	1257

Alphabetical list of inventions—Continued.

Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &c.	Vol.	Page.
Electric-cable terminal.....	E. S. Reid	574,343	Dec. 29	4106	975	77	2117
Electric cables. Armoring or covering for	H. Edmunds	569,748	Oct. 20	1829	434	77	373
Electric cables. Clip for supporting.....	R. H. Lewis	553,194	Jan. 14	1287	311	74	255
Electric-circuit connector.....	T. F. Nevins	553,014	Jan. 14	963	233	74	194
Electric-circuit controller.....	H. A. Gorn	552,756	Jan. 7	465	116	74	88
Electric-circuit cut-out.....	G. W. Scovil and E. F. Gooding	562,980	June 30	3391	815 816	75	2092
Electric-circuit switch.....	A. J. Wurts	570,418	Oct. 27	3044	721 722	77	613
Electric circuits. Automatic safety device for.....	L. G. Rowand	570,892	Nov. 3	846	197 198	77	797
Electric circuits. Cut-out for.....	L. W. Downes	569,373	Oct. 13	1134	270	77	233
Electric conductor and contact device therefor.....	W. P. Allen	554,103	Feb. 4	556	124	74	606
Electric-conductor conduit.....	F. Fuller and J. M. Kinney	554,631	Feb. 11	1481	346	74	796
Electric conductors. Automatic grounding device for.....	G. A. Jewett	556,823	Mar. 24	2405	565	74	1623
Electric conductors. Automatic grounding device for.....	G. A. Jewett	573,222	Dec. 15	1999	480	77	1697
Electric conductors. Connecting device for.....	H. Gilmore	565,344	Aug. 4	725	173	76	751
Electric conductors. Machine for connecting.....	H. J. Savory	554,541	Feb. 11	1306	307	74	763
Electric conductors. Machine for connecting.....	H. J. Savory	554,836	Feb. 18	1824	427	74	880
Electric conductors. Machine for connecting.....	H. J. Savory	555,403	Feb. 25	2441	671	74	1085
Electric conductors. Means for supporting and insulating.....	T. T. Eckert	554,664	Feb. 18	1534	362	74	822
Electric conductors. Testing-joint for.....	B. L. Toquet	562,261	June 16	2104	510	75	1810
Electric conduit and appurtenances.....	M. Dickerson	569,618	Oct. 20	1571	369	77	324
Electric connection.....	J. W. Marsh	558,971	Apr. 28	2560	620	75	532
Electric contact device.....	R. Skeen	567,816	Sept. 15	1890	452	76	1662
Electric controller.....	E. A. Sperry	562,501	June 23	2503	607	75	1901
Electric controller.....	E. A. Sperry	571,410	Nov. 17	1740	415	77	1005
Electric controllers. Drum for.....	S. Harris	573,874	Dec. 29	3215	765	77	1955
Electric-current meter. Alternating.....	T. Duncan	560,087	May 12	1363	306	75	953
Electric-current regulation. Automatic device for.....	E. W. G. C. Hoffmann	567,982	Sept. 22	2171	523	76	1727
Electric-current regulator.....	A. S. Krotz	559,585	May 5	396	95, 96	75	760
Electric-current regulator and distributor.....	A. H. Washburn	564,951	July 28	2998	714	76	599
Electric-current transformer.....	R. Thury	567,424	Sept. 8	1227	294 295	76	1520
Electric currents. Converter of frequency for alternating.....	M. Hutin and M. Leblanc.....	557,094	Mar. 24	2863	684	74	1717
Electric currents. Distribution of.....	I. Kitsee	557,398	Mar. 31	3418	821	74	1841
Electric currents. Means for controlling.....	P. Kennedy	558,650	Apr. 21	1997	424	75	409
Electric currents. Method of and apparatus for transforming alternating.....	M. Hutin and M. Leblanc.....	572,510	Dec. 1	734	175 176 177	77	1417
Electric currents of high frequency and potential. Apparatus for.....	N. Tesla	568,176	Sept. 22	2543	612	76	1796
Electric cut-out.....	R. G. Davis and A. M. Torrance	557,757	Mar. 31	3172	761	74	1792
Electric cut-out.....	J. C. Reynolds	560,821	May 26	2712	623	75	1263
Electric cut-out.....	B. F. Rout	571,734	Nov. 17	2314	553	77	1111
Electric cut-out and annunciator.....	J. Kips	567,599	Sept. 15	1517	365	76	1589
Electric cut-out and insulator.....	H. A. Wagner and F. Schwedtmann.....	552,680	Jan. 7	319	85	74	63
Electric distributing system.....	R. R. Bowker	562,209	June 16	2023	488 489	75	1796
Electric distribution machine.....	W. E. Sinclair	566,874	Sept. 1	231	53, 54	76	1326
Electric-distribution system.....	P. O. Keilholtz	561,002	May 26	3031	698	75	1327
Electric-distribution system.....	E. C. Myrick	555,326	Feb. 25	2717	637	74	1061
Electric-distribution system. Regulating.....	J. Burke	555,301	Feb. 25	2671	625	74	1052
Electric drill.....	M. Hebben	556,502	Mar. 17	1872	436 437	74	1512
Electric elevator.....	J. P. Casey	572,525	Dec. 8	768	182	77	1439
Electric elevator.....	G. T. Francis	564,480	July 21	2172	509	76	431
Electric elevator.....	F. E. Herdman	568,567	Sept. 29	3223	777 778 779	76	1937
Electric elevator.....	P. W. Leffler	573,820	Dec. 22	3101	738 739 740	77	1920
Electric elevator.....	J. Parkinson, T. M. Martin, and C. C. Bowen.....	556,435	Mar. 17	1747	406	74	1489
Electric elevator.....	F. B. Perkins	570,410	Oct. 27	3029	708	77	610
Electric elevator.....	E. W. Rice, Jr.	556,866	Mar. 24	2477	584	74	1643
Electric elevator.....	H. R. Smith	555,979	Mar. 10	856	204	74	1310
Electric elevator.....	H. R. Smith	561,828	June 9	1372	329 330	75	1653
Electric elevator.....	R. Wilson	571,502	Nov. 17	1908	456	77	1036
Electric engine.....	I. T. Dyer	573,581	Dec. 22	2672	634	77	1838
Electric floor-push.....	H. C. Thomson	573,723	Dec. 22	2950	697	77	1891
Electric furnace.....	A. C. Girard and E. A. G. Street.....	556,626	Mar. 17	2069	424	74	1548
Electric furnace.....	A. C. Girard and E. A. G. Street.....	571,655	Nov. 17	2158	519	77	1081
Electric furnace.....	J. E. Hewes	572,636	Dec. 8	965	232 233	77	1482
Electric furnace.....	W. R. King	562,404	June 23	2345	572	75	1872
Electric furnace.....	W. R. King and F. Wyatt	562,400	June 23	2339	570	75	1870
Electric furnace.....	W. R. King and F. Wyatt	562,403	June 23	2344	571	75	1871
Electric furnace.....	E. F. Price	572,312	Dec. 1	403	96	77	1355
Electric furnace.....	M. Schindler	573,041	Dec. 15	1672	401 402	77	1636
Electric generation. Method of and means for.....	S. H. Short	569,591	Oct. 13	1521	358	77	303
Electric generator. Direct-current dynamo.....	B. G. Lamme	573,009	Dec. 15	1619	389	77	1625
Electric generator. Dynamo.....	B. G. Lamme	561,593	June 9	956	229	75	1576
Electric generator. Magneto.....	A. G. Leonard	563,599	July 7	614	143 144	76	115
Electric generator. Magneto.....	C. H. North	569,385	Oct. 13	1152	274	77	236
Electric generator or motor.....	C. E. F. Ahlm	566,120	Aug. 18	2140	521	76	1055

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Electric generators. Automatic operation of.....	F. E. Kinsman	562,541	June 23	2567	623	75	1913
Electric generators or motors. Method of and apparatus for regulating dynamo.....	J. W. Easton	570,663	Nov. 3	457	108	77	724
Electric heater	B. E. Baker	572,467	Dec. 1	666	157	77	1405
Electric heater	G. B. Fraley	569,278	Oct. 13	964	231	77	200
Electric heater	T. Grutting	563,715	July 7	806	193	76	151
Electric heater	W. S. Hadaway, Jr.	563,032	June 30	3471	835	75	2107
Electric heater	J. F. McElroy	555,259	Feb. 25	2592	608	74	1037
Electric heater	J. E. Meek	567,247	Sept. 8	889	213	76	1461
Electric heater	J. E. Meek	567,248	Sept. 8	891	213	76	1461
Electric heater	C. H. Minchew	563,780	July 14	921	230	76	188
Electric heater	F. L. Pruyn	566,795	Sept. 1	99	24	76	1299
Electric heater	H. O. Rockwell	566,341	Aug. 25	2502	614	76	1141
Electric heater	R. V. Sill	565,574	Aug. 11	1156	277	76	850
Electric heater	H. A. Thomas	561,294	June 2	408	101	75	1449
Electric heater	H. L. Tyler	573,629	Dec. 22	2782	659	77	1861
Electric heater	W. F. Warner	559,553	May 5	350	84	75	751
Electric heater	E. P. Wetmore and C. E. Roehl.....	570,077	Oct. 27	2391	567	77	491
Electric heater	J. E. Williamson, C. E. Collins, and J. B. Graham.....	556,524	Mar. 17	1914	445	74	1520
Electric heater or rheostat	F. Kraemer and M. Krüger.....	554,632	Feb. 11	1483	347	74	796
Electric-heater regulator	A. D. Lagrelle	573,670	Dec. 22	2865	676	77	1875
Electric heater, resistance, or rheostat	P. B. Delany	554,910	Feb. 18	1958	461	74	904
Electric hydraulic elevator. Combined.....	J. Parkinson	569,933	Oct. 20	2126	505 506	77	428
Electric hydraulic elevator. Combined.....	J. Parkinson	569,934	Oct. 20	2131	506 507	77	429
Electric hydraulic elevator. Combined.....	J. Parkinson	571,730	Nov. 17	2288	549 550	77	1106
Electric hydraulic elevator. Combined.....	J. Parkinson	571,732	Nov. 17	2304	551 552	77	1109
Electric indicator system. Automatic	G. E. Painter	559,038	Apr. 28	2670	650 651	75	553
Electric light and signaling device	D. Misell	559,143	Apr. 28	2904	702	75	597
Electric-light attachment	J. H. Rusby	571,248	Nov. 10	1476	346	77	941
Electric-light cabinet	E. L. Slocum	554,379	Feb. 11	1033	239	74	711
Electric-light-cord adjuster	G. L. Gulliford	571,761	Nov. 24	2369	565	77	1140
Electric-light fixture	G. A. Schmidt	570,411	Oct. 27	3032	718	77	611
Electric light for bicycles	B. B. Hoffman	559,801	May 12	782	188	75	844
Electric light for cold-storage rooms	D. B. and R. H. Hawes	563,960	July 14	1276	299	76	252
Electric-light globes. Bracket for pendent	J. Christiansen and R. W. Pittman.....	570,452	Nov. 3	18	4	77	642
Electric-light globes. Means for attaching or detaching	F. W. Mayer	568,408	Sept. 29	2932	705	76	1885
Electric-light hanger	J. F., J. F., Jr., and D. Diehl.....	567,022	Sept. 1	510	121	76	1378
Electric-light or telephone brackets. Swing for	A. Petersit	567,550	Sept. 8	1423	342	76	1556
Electric-light shade	W. E. Robinson	557,888	Apr. 7	635	152	75	120
Electric-light shade	H. Stenz	559,149	Apr. 28	2913	703	75	598
Electric-light support	E. J. Fulghum	573,817	Dec. 22	3096	736	77	1919
Electric-light switch	H. W. Lawrence	553,857	Feb. 4	81	16	74	520
Electric lights. Door-lock switch for	W. E. Goucher	561,107	June 2	52	14	75	1377
Electric lighter	H. E. Rider	562,775	June 23	2987	723	75	1993
Electric lighting by wind-power	J. W. Gibboney	569,754	Oct. 20	1837	436	77	375
Electric-lighting mechanism for bicycles	F. E. Magee	572,430	Dec. 1	613	145	77	1394
Electric-lighting system	E. L. Slocum	555,057	Feb. 18	2237	534 535	74	953
Electric-lighting system	S. L. Tripp	555,192	Feb. 25	2473	585	74	1016
Electric-line conduit	J. Graizier	559,701	May 5	590	140	75	794
Electric lock	W. S. Nash	567,156	Sept. 8	756	177	76	1437
Electric machine	A. Schmid	569,802	Oct. 20	1915	455	77	389
Electric machine and electric motor. Dynamo.....	W. B. Elliott and J. W. Eskholme	564,743	July 28	2631	626 627	76	532
Electric machine and electric motor. Dynamo.....	G. A. Welles, Jr.	555,544	Mar. 3	104	23	74	1149
Electric machine and motor. Dynamo.....	J. G. Germann and F. B. Downing.....	562,179	June 16	1979	479	75	1787
Electric-machine controller. Dynamo.....	W. H. Knight and J. W. Darley, Jr.	554,276	Feb. 11	860	198	74	679
Electric machine. Dynamo.....	E. Caemmerer and F. G. Mayer	565,529	Aug. 11	1077	258 259	76	835
Electric machine. Dynamo.....	E. Caemmerer and F. G. Mayer	565,530	Aug. 11	1079	259	76	835
Electric machine. Dynamo.....	W. Cooper	563,911	July 14	1184	279	76	237
Electric machine. Dynamo.....	G. E. Dorman	567,586	Sept. 15	1499	359	76	1526
Electric machine. Dynamo.....	G. E. Dorman	570,914	Nov. 10	900	209	77	834
Electric machine. Dynamo.....	R. Eickemeyer	564,559	July 21	2313	544	76	455
Electric machine. Dynamo.....	A. I. Gravier	561,390	June 2	577	144 145	75	1481
Electric machine. Dynamo.....	J. F. Kelly	559,531	May 5	309	75	75	742
Electric machine. Dynamo.....	J. F. Kelly, C. C. Chesney, and P. W. Power.....	559,584	May 5	394	95	75	760
Electric machine. Dynamo.....	H. W. Libbey	567,719	Sept. 15	1716	412	76	1629
Electric machine. Dynamo.....	R. Lundell	571,310	Nov. 10	1581	376	77	962
Electric machine. Dynamo.....	W. F. Marzahn	571,780	Nov. 24	2396	572 573	77	1145
Electric machine. Dynamo.....	F. G. Mayer	561,803	June 9	1327	318	75	1646
Electric machine. Dynamo.....	W. M. Mordey	555,963	Mar. 10	830	197	74	1305
Electric machine. Dynamo.....	A. L. Parcellle	563,940	July 14	1237	289	76	245
Electric machine. Dynamo.....	R. Schorch	560,328	May 19	1813	412	75	1085
Electric machine. Dynamo.....	N. W. Storer	562,864	June 30	3164	766	75	2043
Electric machine. Dynamo.....	R. Thury	567,423	Sept. 8	1224	293 294	76	1520
Electric machine. Dynamo.....	C. C. and H. B. Warren	562,868	June 30	3179	770	75	2046
Electric machine. Magneto.....	P. J. Crouse and E. W. Milgate	563,453	July 7	367	84, 85	76	71
Electric machine or electric motor. Dynamo.....	O. Patin and L. Levavasseur	560,006	May 12	1204	268 269	75	924
Electric machines and means for supporting same. Pillow-block for dynamo.....	P. W. Power	559,538	May 5	325	78	75	745
Electric machines and motors. Brush for dynamo.....	F. W. Kreinberg	555,381	Feb. 25	2809	660	74	1078

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Electric machines. Automatic current regulation of dynamo.	F. H. Loveridge	563,290	July 7	96	23	76	21
Electric machines. Brush for dynamo.	F. J. and R. Chaplin	556,176	Mar. 10	1232	288	74	1377
Electric machines. Brush-holder for dynamo.	C. E. Woods	566,366	Aug. 25	2561	626	76	1151
Electric machines. Carbon-brush holder for dynamo.	W. E. Knowlton	558,164	Apr. 14	1198	292	75	244
Electric machines. Construction of dynamo.	S. H. Short	565,930	Aug. 18	1836	439	76	991
Electric machines. Core and coil for dynamo.	A. L. Cushman	555,850	Mar. 3	605	144	74	1241
Electric machines in multiple. Operating dynamo.	E. Verstraete	556,788	Mar. 24	2350	553	74	1618
Electric mat.	O. H. Hicks	564,485	July 21	2181	511	76	433
Electric meter.	H. Burger and W. H. McFall	571,036	Nov. 10	1109	259	77	873
Electric meter.	H. Burger and W. H. McFall	571,037	Nov. 10	1110	260	77	874
Electric meter.	T. Duncan	573,079	Dec. 15	1747	418	77	1650
					419		
Electric meter.	T. Duncan	573,080	Dec. 15	1750	420	77	1651
					421		
Electric meter.	C. Erben	573,082	Dec. 15	1756	422	77	1652
					423		
Electric meter.	R. O. Hood	561,711	June 9	1161	276	75	1615
					277		
Electric meter.	W. D. Marks	573,021	Dec. 15	1637	393	77	1629
Electric meter.	W. H. McGrath and J. M. Oram	552,540	Jan. 7	64	18	74	15
Electric meter.	C. P. Steinmetz	557,164	Mar. 31	2989	714	74	1764
Electric meter.	G. A. J. Telge	555,589	Mar. 3	177	41	74	1162
Electric meter.	A. G. Waterhouse	561,183	June 2	198	49	75	1404
Electric meter.	A. G. Waterhouse	562,680	June 23	2816	683	75	1959
Electric meter.	C. Wirt	555,992	Mar. 10	883	210	74	1315
					211		
Electric meter.	C. Wirt, G. R. Green, and H. Burger	571,032	Nov. 10	1100	257	77	872
Electric metering system.	J. W. Gibboney	558,585	Apr. 21	1888	457	75	389
Electric motor.	E. J. Berg	563,440	July 7	350	80	76	68
Electric motor.	J. Bram	566,889	Sept. 1	260	61	76	1332
Electric motor.	S. G. Brinkman	570,424	Oct. 27	3058	724	77	616
Electric motor.	H. B. Collins	569,746	Oct. 20	1824	433	77	372
Electric motor.	W. H. Cooley	561,699	June 9	1130	272	75	1610
Electric motor.	W. H. Cooley	561,700	June 9	1144	272	75	1612
					273		
Electric motor.	J. Conner, J. R. MacMillan, and A. J. Fuller	565,155	Aug. 4	383	89, 90	76	689
Electric motor.	R. Eickemeyer	567,119	Sept. 1	680	158	76	1411
					159		
Electric motor.	S. D. Field	552,521	Jan. 7	32	10	74	9
Electric motor.	W. E. Freeman	569,866	Oct. 20	2018	481	77	408
Electric motor.	G. R. Green	571,043	Nov. 10	1117	261	77	875
Electric motor.	J. H. Guest	554,365	Feb. 11	1009	234	74	707
Electric motor.	D. C. Jackson and C. M. Conradson	552,961	Jan. 14	882	213	74	179
					214		
Electric motor.	G. J. Scott	564,455	July 21	2132	499	76	423
Electric motor.	I. E. Storey	557,714	Apr. 7	335	80	75	64
Electric motor.	G. L. Thomas	552,858	Jan. 7	699	163	74	126
Electric motor.	E. Thomson	555,191	Feb. 25	2469	585	74	1015
Electric motor. Alternating.	R. Lundell	560,591	May 19	2261	518	75	1166
Electric motor. Alternating.	J. A. G. Trudeau	561,144	June 2	116	31, 32	75	1390
Electric motor. Alternating-current.	F. S. Hunting	568,350	Sept. 29	2842	683	76	1868
					684		
Electric motor and dynamo.	E. Arnold	562,366	June 23	2292	557	75	1861
Electric motor and motor-generator.	W. H. Cooley	561,867	June 9	1441	348	75	1667
Electric motor and motor-generator.	L. Gutmann	559,360	May 5	54	12	75	691
Electric-motor controller.	E. A. Bryant	562,116	June 16	1872	454	75	1766
Electric-motor controller.	W. B. Potter	554,307	Feb. 11	914	211	74	690
Electric-motor controller.	E. D. Priest	556,862	Mar. 24	2466	580	74	1641
					581		
Electric-motor-controlling apparatus.	H. W. Leonard	568,088	Sept. 22	2390	576	76	1767
Electric-motor-controlling mechanism.	L. T. Gibbs	555,503	Mar. 3	32	8	74	1136
Electric-motor-controlling mechanism.	R. C. Smith	562,745	June 23	2933	711	75	1982
					712		
Electric-motor cut-out.	E. P. Warner	565,867	Aug. 11	1684	412	76	951
Electric motor. Oscillating reciprocating tripolar.	T. H. Hicks	568,947	Oct. 6	393	88, 89	77	75
Electric-motor regulator.	W. A. Anthony	569,989	Oct. 27	2230	529	77	460
Electric-motor regulator.	O. H. Pieper	558,517	Apr. 21	1780	433	75	370
Electric-motor safety device.	J. D. Ihlder	560,503	May 19	2115	484	75	1140
Electric-motor speed-regulator.	R. Eickemeyer	564,558	July 21	2310	543	76	455
Electric-motor support.	S. H. Short	564,902	July 24	2890	692	76	590
Electric motors. Alarm device for.	W. A. Gibbs	568,608	Sept. 29	3315	795	76	1955
Electric motors, &c. Automatic device for removing resistance in starting.	G. H. Whittingham. (Reissue)	11,545	May 26	3163	731	75	1353
Electric motors. Automatic regulator for.	H. P. Merriam	567,651	Sept. 15	1606	386	76	1607
					387		
Electric motors. Automatic starter for.	J. E. Putnam	566,936	Sept. 1	345	80	76	1348
Electric motors. Construction and operation of circuits for.	F. E. Herdman	568,566	Sept. 29	3219	775	76	1936
					776		
Electric motors. Control system for.	G. Santer, J. M. L. Savatier, and C. E. de Lagabbe	553,819	Jan. 28	2367	563	74	486
					564		
Electric motors. Regulating.	J. Burke	557,185	Mar. 31	3035	726	74	1769
Electric motors. Regulating.	H. W. Leonard	572,903	Dec. 8	1410	341	77	1588
Electric motors. Reversing-controller for.	A. C. Dinkey	563,575	July 7	579	134	76	108
Electric motors. System of control for.	E. A. Sperry	555,291	Feb. 25	2656	622	74	1049
Electric motors. System of control for.	E. A. Sperry	566,426	Aug. 25	2673	653	76	1174
					654		
Electric motors. System of control for.	E. A. Sperry	569,305	Oct. 13	1022	244	77	211
Electric regulation. System of automatic.	W. L. Bliss	572,627	Dec. 8	947	230	77	1478
Electric regulator.	R. M. Hunter	560,035	May 12	1261	284	75	934
Electric resistances. Instrument for measurement of.	S. Evershed	563,917	July 14	1192	280	76	238

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Electric selector	A. Le Blanc	566,914	Sept. 1	304	71, 72	76	1341
Electric selector	A. Le Blanc	566,915	Sept. 1	308	72, 73	76	1341
Electric signal	C. H. Sherwood	562,929	June 30	3281	793	75	2068
Electric signal	C. P. Wilkinson	567,759	Sept. 15	1785	428	76	1642
Electric snap-switch	G. W. Hart	554,221	Feb. 4	752	171	74	643
Electric snap-switch	C. G. Perkins	569,299	Oct. 13	1009	241	77	208
Electric snap-switch	G. B. Thomas	569,309	Oct. 13	1027	244	77	212
Electric steam and gas engine	F. A. Rich	572,449	Dec. 1	639	151	77	1400
Electric switch	C. Bach, Jr.	565,662	Aug. 11	1315	317	76	880
Electric switch	S. Bergmann	552,574	Jan. 7	118	33	74	24
Electric switch	C. G. Bergquist	558,343	Apr. 14	1462	359	75	294
Electric switch	W. and H. Boardman	573,807	Dec. 22	3080	321	77	1916
Electric switch	W. L. Denio	565,673	Aug. 11	1330	321	76	883
Electric switch	A. K. Dresher	557,777	Apr. 7	457	108	75	86
Electric switch	G. Emmett	569,576	Oct. 13	1497	353	77	299
Electric switch-operating apparatus	J. C. Fagan	653,730	Jan. 28	2227	528	74	459
Electric switch	T. W. Gabel	556,264	Mar. 10	1397	328	74	1409
Electric switch	M. Guett	561,581	June 9	934	223	75	1572
Electric switch	C. H. Haberer	572,929	Dec. 8	1475	354 } 355 }	77	1581
Electric switch	W. W. Hibbard	571,119	Nov. 10	1266	294	77	902
Electric switch	J. L. Hornig	561,588	June 9	944	226	75	1574
Electric switch	J. L. Hornig	566,760	Sept. 1	48	13	76	1289
Electric switch	J. T. Hunt	564,283	July 21	1847	432 } 433 }	76	371
Electric switch	F. Land	561,116	June 2	65	18	75	1379
Electric switch	P. E. Marchand	557,848	Apr. 7	580	138	75	109
Electric switch	N. Marshall	556,510	Mar. 17	1885	439	74	1515
Electric switch	J. F. McElroy	562,142	June 16	1911	463 } 464 }	75	1774
Electric switch	J. E. Meek	568,450	Sept. 29	3002	722	76	1898
Electric switch	M. Moskowitz	571,952	Nov. 24	2712	641	77	1206
Electric switch	J. T. Norton	571,927	Nov. 24	2667	632	77	1196
Electric switch	C. G. Perkins	557,224	Mar. 31	3107	745	74	1782
Electric switch	C. G. Perkins	563,407	July 7	289	66	76	58
Electric switch	W. H. Powell	569,300	Oct. 13	1010	242	77	208
Electric switch	W. H. Powell	569,301	Oct. 13	1014	242	77	209
Electric switch	W. H. Powell	569,302	Oct. 13	1017	243	77	210
Electric switch	H. Ross	561,284	June 2	392	98	75	1446
Electric switch	C. B. Sterling	572,319	Dec. 1	417	99	77	1358
Electric switch	S. A. Stewart	570,068	Oct. 27	2370	563	77	487
Electric switch	P. G. Tisner	559,916	May 12	1044	232	75	892
Electric switch	H. B. Whitehead	554,557	Feb. 11	1331	312	74	768
Electric switch and signal apparatus	J. G. Schreuder	566,541	Aug. 25	2894	705	76	1215
Electric switch. Automatic	W. S. Barstow and R. Lindsay	561,958	June 16	1598	387 } 388 }	75	1717
Electric switchboard and circuit-maker	A. L. Pratt	562,658	June 23	2781	675	75	1953
Electric-switch-operating apparatus	D. Hinchliffe and A. D. Edes	558,687	Apr. 21	2071	501	75	423
Electric system. Three-wire	E. M. Hewlett and W. B. Potter	554,270	Feb. 11	848	194	74	677
Electric track-signal	C. P. Wilkinson	567,760	Sept. 15	1786	429	76	1642
Electric transformer	W. Carter	555,074	Feb. 25	2263	540	74	974
Electric transformer	W. K. Freeman	553,847	Feb. 4	64	13	74	516
Electric transformer	F. L. Sessions	564,944	July 28	2984	710	76	596
Electric trap-pulling devices. Multiple circuit-closer for	T. R. Barney	568,013	Sept. 22	2227	538	76	1738
Electric visual indicator	F. W. Cole and W. M. Chapman	555,076	Feb. 25	2268	541 } 542 }	74	975
Electric wall-box	W. F. Bossert	571,297	Nov. 10	1561	371	77	958
Electric waves or oscillations. Means for generating	D. M. Moore	568,863	Oct. 6	259	60, 61	77	50
Electric-wire sleeve connections. Tool for twisting	S. Olsen	566,614	Aug. 25	2991	730	76	1234
Electric wires. Conduit outlet-box for	C. A. Mezger	564,527	July 21	2242	526	76	444
Electrical accumulator	G. D. de Dormael	561,872	June 9	1451	350	75	1669
Electrical apparatus	J. F. Kelly	570,310	Oct. 27	2856	426	77	578
Electrical apparatus and system	M. B. Leonard	560,360	May 19	1868	453 } 454 }	75	1095
Electrical apparatus. Coin-controlled	J. N. Peirce	560,423	May 19	1885	453 } 454 }	75	1116
Electrical apparatus. Protective appliance for	A. de Khotinsky	564,084	July 14	1498	351	76	294
Electrical circuit-closer	L. B. Miller	554,074	Feb. 4	495	112	74	596
Electrical circuits. Apparatus for protecting	J. M. Oram	552,542	Jan. 7	67	18	74	16
Electrical communication	J. A. Sullivan	567,112	Sept. 1	670	156 } 157 }	76	1409
Electrical condenser	N. Tesla	567,818	Sept. 15	1892	453	76	1662
Electrical-conductor conduit	J. F. Cummings	562,806	June 30	3051	738	75	2022
Electrical-conductor conduit	J. M. Kinney	557,830	Apr. 7	550	132	75	103
Electrical conductor. Incandescing	J. W. Aylsworth	553,328	Jan. 21	1529	366	74	314
Electrical conductors. Means for protecting underground	F. Davis and R. E. B. Crompton	562,808	June 30	3054	738	75	2023
Electrical conductors. Method of and apparatus for preparing or treating	C. E. Carpenter	555,885	Mar. 3	699	169	74	1260
Electrical conductors. Subway for	W. H. Hart	564,994	Aug. 4	62	14	76	629
Electrical connecting-cord	C. H. McEvoy	554,716	Feb. 18	1618	381	74	840
Electrical connecting-cord	C. H. McEvoy	573,612	Dec. 22	2728	648	77	1650
Electrical connection	T. Grutting	561,951	June 9	1587	384	75	1695
Electrical connector	P. H. Fielding	556,967	Mar. 24	2642	621	74	1673
Electrical connector	B. L. Toquet	557,037	Mar. 24	2777	660	74	1699
Electrical connector	B. L. Toquet	563,695	July 7	772	182	76	145
Electrical construction, regulation, and distribution	T. H. Hicks	566,860	Sept. 1	210	49	76	1323
Electrical contact device for subways or conduits	A. S. Krotz and W. P. Allen	559,586	May 5	398	96	75	760
Electrical converters. Automatic cut-out for	W. J. Greene	554,508	Feb. 11	1258	294	74	754
Electrical currents of high frequency. Apparatus for producing	N. Tesla	568,180	Sept. 22	2550	614	76	1797
Electrical decomposing-tanks. Conductor for	J. Leith	556,854	Mar. 24	2445	574	74	1637
Electrical-discharge device	C. E. Skinner	571,099	Nov. 10	1235	287	77	896
Electrical distributing system	R. R. Bowker	560,772	May 26	2637	605 } 606 }	75	1252

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Electrical distribution	J. Burke	554,240	Feb. 11	795	182	74	666
Electrical distribution. Multiple-series system of	F. B. Badt	557,099	Mar. 31	2872	687	74	1741
Electrical distribution. Multiple-series system of	F. B. Badt	558,924	Apr. 28	2481	603	75	516
Electrical-distribution system	C. C. Chesney and J. F. Kelly	571,300	Nov. 10	1565	372	77	959
Electrical-distribution system	F. D. Gould	565,740	Aug. 11	1455	355	76	906
Electrical-distribution system	J. F. Kelly	559,530	May 5	308	75	75	742
Electrical-distribution system	J. F. Kelly and C. C. Chesney	571,270	Nov. 10	1515	358	77	948
Electrical-distribution system	B. G. Lamme	559,721	May 5	619	148	75	800
Electrical-distribution system	L. K. Oppenheimer	562,647	June 23	2762	671	75	1949
Electrical-distribution system	G. J. Scott	562,924	June 30	3270	789	75	2065
Electrical-distribution system	O. B. Shallenberger	571,849	Nov. 24	2521	597	77	1168
Electrical-distribution system	C. P. Steinmetz	561,735	June 9	1207	286	75	1624
Electrical-distribution system	C. P. Steinmetz	563,426	July 7	326	73. 74	76	64
Electrical-distribution system	G. T. Woods	569,443	Oct. 13	1246	293	77	252
Electrical-distribution-system switchboard	L. B. Stillwell	565,811	Aug. 11	1573	383	76	928
Electrical energy. Converting potential energy of carbon into	W. W. Jacques	555,511	Mar. 3	46	10	74	1139
Electrical-energy indicator	T. Duncan	561,977	June 13	1626	396	75	1722
Electrical energy. Means for transmitting	T. W. Onderdonk	557,422	Mar. 31	3466	831	74	1850
Electrical energy. System for generating and distributing	C. M. Green	573,647	Dec. 22	2820	667	77	1867
Electrical energy. Transforming chemical energy of fuel into	W. Borchers	567,959	Sept. 22	2130	513	76	1721
Electrical furnace	E. G. Acheson	560,291	May 19	1744	397	75	1074
Electrical furnace	M. R. Conley	558,357	Apr. 14	1481	364	75	297
Electrical illumination by metallic coating upon glass. Phosphorescent	D. M. Moore	565,776	Aug. 11	1518	370	76	918
Electrical illumination by secondary currents. Phosphorescent	D. M. Moore	565,777	Aug. 11	1519	369	76	919
Electrical incandescing conductors. Manufacturing	J. W. Aylsworth	553,296	Jan. 21	1477	355	74	304
Electrical instruments. Contact-point for	C. E. Scribner	563,326	July 7	167	37	76	34
Electrical lighting apparatus	R. A. Schoenberg, J. W. Flucker, and A. N. Keedwell	557,434	Mar. 31	3487	835	74	1854
Electrical machine. Static	C. M. Holloper	560,852	May 26	2783	638	75	1281
Electrical power, &c. System of distributing	W. D. Gharky	569,634	Oct. 20	1601	378	77	333
Electrical production of chemical reactions	W. Lobach	563,288	July 7	90	22	76	19
Electrical resistance device	D. C. Voss	573,558	Dec. 22	2634	626	77	1830
Electrical resistances. Manufacture of	A. J. Marquand and D. Lowdon	571,489	Nov. 17	1878	448	77	1030
Electrical selecting instrument	A. Duppler	566,496	Sept. 1	272	63	76	1334
Electrical selector	S. S. Bogart	563,443	July 7	352	81	76	69
Electrical transformer	H. M. Hobart	567,237	Sept. 8	874	209	76	1458
Electrical transformer	W. S. Moody	567,250	Sept. 8	894	214	76	1462
Electrical transformers. Automatic cut-out for	A. C. Booth	569,538	Oct. 13	1406	332	77	282
Electrical transmitting instrument	A. Le Blanc	566,917	Sept. 1	314	73	76	1342
Electrical-transportation system	P. K. Stern	559,872	May 12	960	214	75	877
Electrical transportation system	P. K. Stern	564,262	July 21	1806	423	76	366
Electrically-controlled elevator	S. D. Strohman	570,827	Nov. 3	737	168	77	775
Electricity and conduit for holding same. Conductor of	A. Selkirk	573,302	Dec. 15	2155	516	77	1723
Electricity-carrying cables. Connector for	D. E. Evans	559,168	Apr. 28	2946	711	75	605
Electricity for lighting or heating railway-cars. Apparatus for generating	C. E. Dressler	568,193	Sept. 22	2569	618	76	1801
Electricity from car-wheel axles. Means for generating	M. Moskowitz	564,333	July 21	1927	455	76	386
Electricity from car-wheel axles. Means for generating	M. Moskowitz	564,335	July 21	1931	456	76	387
Electricity from car-wheel axles. Means for generating	M. Moskowitz	564,336	July 21	1933	456	76	387
Electricity from car-wheel axles. Means for generating	M. Moskowitz	571,951	Nov. 24	2707	640	77	1205
Electricity from car-wheels. Means for generating	M. Moskowitz	564,334	July 21	1929	455	76	386
Electricity. Producing	J. R. Payson, Jr.	567,721	Sept. 15	1718	412	76	1629
Electrode	H. Blackman	568,229	Sept. 22	2634	413	76	1814
Electrode for electric-power storage batteries. End	J. Langelaan	570,028	Oct. 27	2297	545	77	473
Electrode for electrical apparatus	W. Schäfer and A. Heinemann	566,231	Aug. 18	2312	77	1089	
Electrode for electrolytic decomposition	H. Blackman	568,230	Sept. 22	2636	76	1814	
Electrode for secondary voltaic batteries	G. A. Grindle	574,322	Dec. 29	4065	966	77	2109
Electrode. Galvanic-belt	E. S. Collicott	563,016	June 30	3442	828	75	2102
Electrode. Secondary-battery	G. Hübner	565,140	Aug. 4	359	76	684	
Electrode. Secondary-battery	O. Pirsch	556,769	Mar. 24	2313	544	74	1612
Electrode. Secondary-battery	H. Woodward	571,143	Nov. 10	1309	304	77	909
Electrode. Therapeutic	J. S. Muir	568,095	Sept. 22	2405	579	76	1770
Electrodes for secondary batteries. Manufacturing	I. Kitsée	558,692	Apr. 21	2077	502	75	424
Electrodes. Substance for telephone	D. Drawbaugh	567,966	Sept. 22	2142	76	1733	
Electrodes. Substance for telephone	D. Drawbaugh	568,526	Sept. 29	3164	76	1926	
Electrodes. Substance for telephone	D. Drawbaugh	570,845	Nov. 3	777	77	783	
Electrodeposition	E. Jordis	570,554	Nov. 3	777	77	678	
Electrolier	A. Heck	558,904	Apr. 21	2434	592	75	491
Electrolier	N. L. Root, C. L. Reed, and D. C. Hale	565,092	Aug. 4	242	59	76	661
Electrolier. Drop-light	G. Peeples	558,609	Apr. 21	1929	469	75	393
Electrolysis	H. Blumenberg, Jr.	565,324	Aug. 4	687	165	76	743
Electrolysis. Apparatus for indirect	E. Andreoli	565,953	Aug. 18	1847	449	76	1000
Electrolysis of chlorids, &c. Apparatus for	J. Hargreaves and T. Bird	571,591	Nov. 17	2057	492	77	1062
Electrolytes. Method of and apparatus for regulating temperature of	R. Kroseberg and E. Straub	563,972	July 14	1296	303	76	256
Electrolytic anode and apparatus	H. Blackman	568,231	Sept. 22	2637	633	76	1814

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Electrolytic apparatus	C. W. Fielding and L. B. Walker ..	566,673	Aug. 25	3079	751	76	1250
Electrolytic apparatus	M. H. Wilson	556,038	Mar. 10	974	233	74	1330
Electrolytic bath and appliance	J. H. George	553,732	Jan. 28	2229	528	74	460
Electrolytic-deposition apparatus	W. D. May	570,133	Oct. 27	2486	589	77	509
Electrolytic diaphragm	M. Kiliani, W. Rathenau, and C. Su- ter	562,304	June 16	2178	529	75	1825
Electrolytical apparatus	W. S. Rawson	560,931	May 26	2933	673	75	1309
Electrolyzing chlorid solutions. Apparatus for	E. Hermite	553,464	Jan. 21	1754	418	74	356
Electrolyzing chlorid solutions. Apparatus for	E. Hermite	553,465	Jan. 21	1755	419	74	356
Electromagnet	C. D. Haskins	553,675	Jan. 28	2128	503	74	440
Electromagnet	J. Houlehan	554,821	Feb. 18	1804	423	74	876
Electromagnet	A. Le Blanc	566,918	Sept. 1	316	74	76	1343
Electromagnet	J. Wayland	569,262	Oct. 13	940	225	77	195
Electromagnet-core	A. G. Waterhouse	558,539	Apr. 21	1812	440 441	75	377
Electromagnet for separating metals	H. H. Whitacre and A. C. Wolfe ..	555,546	Mar. 3	105	23	74	1150
Electromagnets. Bank of	C. E. Allen	562,564	June 23	2632	637	75	1925
Electromagnetic induction system of propulsion	A. C. Shuttleworth	554,962	Feb. 18	2046	485	74	920
Electromagnetic motor	F. M. Schmidt	560,652	May 26	2429	556	75	1212
Electromagnetic sentinel	F. B. Badt	571,739	Nov. 24	2325	556	77	1132
Electromotors. Regulating device for controlling working of	R. Thury	556,945	Mar. 24	2602	612	74	1665
Electroplating apparatus	R. J. Marks	574,038	Dec. 29	3519	840	77	2010
Electroplating copper	W. B. Hollingshead	557,816	Apr. 7	523	.....	75	99
Electrotherapeutic apparatus	W. Carter	556,617	Mar. 17	2055	481	74	1545
Electrotherapeutic apparatus	H. E. Waite	565,056	Aug. 4	157	37	76	647
Electrotherapeutic apparatus for treating deafness	S. J. Collier	561,046	May 26	3106	716	75	1342
Electrotherapeutic band	B. H. Vellines	569,529	Oct. 13	1395	329	77	279
Electrotherapeutic body-wear	G. Quarrie	556,161	Mar. 10	1210	282 283	74	1374
Electrotype and stereotype plate holder	E. H. Cottrell	572,695	Dec. 8	1071	260 261	77	1502
Electrotype-mold builder	W. W. McCarroll	556,472	Mar. 17	1806	419 420	74	1500
Electrotype-plate holder	H. C. Whitcomb and J. H. Ware ..	568,390	Sept. 29	2901	698	76	1879
Electrotype registry-block	C. Forsman	572,884	Dec. 8	1384	335	77	1562
Elevated carrier	A. W. Borland and C. M. Law	558,148	Apr. 14	1137	277	75	233
Elevating and dumping device	L. E. and H. Hoy	567,100	Sept. 1	652	152	76	1405
Elevating and transferring apparatus	B. F. Shuart	557,345	Mar. 31	3330	799	74	1823
Elevating apparatus for coal, ores, &c	C. W. Hunt	553,118	Jan. 14	1153	279	74	231
Elevating-chair	W. B. Mann	557,846	Apr. 7	574	137 138	75	108
Elevating machinery	B. S. Crocker	552,987	Jan. 14	922	224	74	187
Elevator: See Bale-elevator. Hay-elevator. Barrel-elevator. Hydraulic elevator Clay-elevator. Ice-elevator. Cotton-elevator. Package-elevator. Electric elevator. Portable elevator. Electric hydraulic Safety-elevator. elevator. Screw elevator. Electrically-con- Tubing and casing eleva- trolled elevator. tor. Grain-elevator. Water-elevator. Grain-storage elevator.							
Elevator	N. C. Bassett	570,592	Nov. 3	294	72, 73	77	693
Elevator	G. F. Brott	569,539	Oct. 13	1408	332	77	282
Elevator	J. R. Hamilton	561,223	June 2	255	62, 63	75	1417
Elevator	C. A. Harkness	553,064	Jan. 14	1046	254 255 256	74	210
Elevator	C. A. Harkness	553,157	Jan. 14	1215	295 296	74	243
Elevator	C. A. Harkness	567,095	Sept. 1	640	149 150 163	76	1404
Elevator	C. A. Harkness	569,129	Oct. 6	701	164 165 166	77	134
Elevator	C. A. Harkness	570,253	Oct. 27	2704	643 644	77	550
Elevator	T. W. Heermans	567,541	Sept. 8	1404	337	76	1553
Elevator	F. E. Herdman	560,208	May 19	1586	359	75	1046
Elevator	F. E. Herdman	560,209	May 19	1589	359	75	1047
Elevator	F. E. Herdman	560,210	May 19	1591	360	75	1048
Elevator	F. E. Herdman	560,211	May 19	1593	360 361	75	1048
Elevator	S. T. Lewis	568,576	Sept. 29	3246	781	76	1942
Elevator	J. S. Mucklé and W. H. B. Teamer ..	555,825	Mar. 3	561	134 135	74	1232
Elevator	N. P. Otis	567,158	Sept. 8	760	177 178	76	1438
Elevator	G. W. W. Perkins	568,410	Sept. 29	2937	706	76	1885
Elevator	C. R. Pratt	573,531	Dec. 22	2585	614	77	1821
Elevator	T. Van Kannel	552,651	Jan. 7	254	71, 72	74	51
Elevator and dump	G. Wenzelmann	569,697	Oct. 20	1719	408 409 410	77	355
Elevator apparatus	I. H. Venn	564,321	July 21	1908	450 451	76	383
Elevator apparatus. Hydraulic	H. C. Johnson	564,620	July 28	2429	572	76	496
Elevator attachment	I. T. Dyer	559,444	May 5	170	37, 38	75	714
Elevator attachment	E. C. Jenkins	569,336	Oct. 13	1072	254	77	221
Elevator attachment	E. C. Jenkins	572,996	Dec. 15	1596	382 383	77	1620

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g	Vol.	Page.
Elevator attachment.....	E. C. Jenkins.....	572,997	Dec. 15	1599	383 384	77	1621
Elevator automatic safety attachment.....	R. F. Le Brocq.....	561,232	June 2	272	68	75	1420
Elevator-boot.....	J. Hankin.....	563,171	June 30	3722	891	75	2154
Elevator brake mechanism.....	S. M. Fay.....	572,789	Dec. 8	1241	300 301	77	1533
Elevator-brake mechanism. Electric.....	F. E. Herdman.....	568,569	Sept. 29	3230	779	76	1938
Elevator-brake mechanism. Electric.....	F. E. Herdman.....	568,570	Sept. 29	3232	779	76	1939
Elevator-brake mechanism. Electric.....	F. E. Herdman.....	568,571	Sept. 29	3235	780	76	1939
Elevator-brake. Safety.....	E. Collins.....	559,569	May 5	374	90, 91	75	755
Elevator-buckets to belts. Device for attaching.....	W. Griscom.....	567,469	Sept. 8	1299	314	76	1534
Elevator car-lock. Automatic.....	R. C. Wright.....	566,109	Aug. 18	2122	516 517	77	1052
Elevator-cars. Life-saving device for.....	C. O. Breed.....	568,733	Oct. 6	29	7	76	8
Elevator-control apparatus.....	C. E. Foster.....	553,672	Jan. 28	2121	502	74	439
Elevator control device.....	T. W. Heermans.....	566,516	Aug. 25	2856	694	76	1207
Elevator-controller.....	E. C. Jenkins.....	555,099	Feb. 25	2317	550 551	74	985
Elevator-controller. Electric.....	E. P. Warner.....	555,136	Feb. 25	2381	565	74	998
Elevator-controlling device.....	C. A. Harkness. (Reissue).....	11,520	Jan. 7	724	176 177	74	135
Elevator-controlling device.....	C. A. Harkness.....	553,607	Jan. 28	2347	559	74	482
Elevator-controlling device.....	J. D. Ihlder.....	558,075	Apr. 14	1025	250	75	210
Elevator-controlling mechanism.....	R. T. Crane.....	556,921	Mar. 24	2569	605	74	1659
Elevator-controlling mechanism.....	W. E. H. Otto.....	572,214	Dec. 1	211	51	77	1318
Elevator-controlling valve.....	W. W. Doolittle.....	563,266	July 7	56	14	76	12
Elevator-door attachment.....	F. E. Herdman.....	557,204	Mar. 31	3079	738	74	1776
Elevator-door opening or closing apparatus.....	F. E. Herdman.....	570,476	Nov. 3	64	15, 16	77	650
Elevator-door-operating apparatus.....	J. B. Burdett and H. Rowntree.....	566,539	Sept. 1	169	40	76	1314
Elevator-door-operating apparatus.....	J. B. Burdett and H. Rowntree.....	566,540	Sept. 1	175	41	76	1315
Elevator-doors. Appliance for operating.....	A. W. Meyers.....	556,512	Mar. 17	1889	440	74	1515
Elevator-doors. Device for automatically operating.....	E. A. Haldeman.....	561,164	June 2	160	41	75	1397
Elevator-engine. Combined electric hydraulic screw-controlled.....	J. Parkinson.....	571,731	Nov. 17	2299	550 551	77	1108
Elevator-gate.....	R. E. Olds and G. E. De Vore.....	557,219	Mar. 31	3100	743	74	1780
Elevator-gates. Safety mechanism for operating.....	J. T. Hobbs.....	571,442	Nov. 17	1797	429	77	1016
Elevator-gearing.....	E. B. Parkhurst.....	571,864	Nov. 24	2546	603	77	1174
Elevator-governor.....	E. W. Erickson.....	561,505	June 2	787	192	75	1519
Elevator-guide.....	G. H. Reynolds.....	559,539	May 5	327	78	75	746
Elevator guide-sheave.....	J. Fensom.....	561,215	June 2	244	59	75	1415
Elevator-indicator.....	J. N. Strong.....	567,012	Sept. 1	490	114	76	1374
Elevator limitation-stop.....	T. Hill.....	563,036	June 30	3477	836	75	2108
Elevator locking attachment.....	W. C. Fahy.....	565,889	Aug. 18	1716	421	76	973
Elevator locking mechanism.....	A. C. Hunt.....	564,884	July 28	2867	687 688	76	575
Elevator mechanism.....	J. H. Clark.....	573,809	Dec. 22	3083	732 733	77	1916
Elevator mechanism.....	H. R. Wellman.....	568,506	Sept. 29	3100	747	76	1915
Elevator mechanism. Hydraulic.....	J. T. Wilkin.....	552,565	Jan. 7	106	30	74	22
Elevator-motor-controlling device.....	F. E. Herdman.....	568,568	Sept. 29	3228	778 779	76	1938
Elevator-operating mechanism.....	F. B. Perkins.....	562,741	June 23	2926	710	75	1981
Elevator or other carrier.....	T. M. Martin and J. Parkinson.....	561,679	June 9	1097	263 264	75	1602
Elevator pneumatic cushion.....	C. A. Ellis and E. S. Miller.....	572,531	Dec. 8	774	184	77	1440
Elevator power-wheel.....	G. S. Fouts.....	554,023	Feb. 4	406	89	74	579
Elevator safety appliance.....	J. H. Tennyson.....	559,633	May 5	483	112 113	75	775
Elevator safety attachment.....	E. I. Pyle.....	556,771	Mar. 24	2316	544 545	74	1612
Elevator safety-cushion.....	E. J. Gilpin and O. Helmick.....	568,345	Sept. 29	2833	682	76	1866
Elevator safety device.....	A. R. Clarke.....	568,521	Sept. 29	3154	759	76	1924
Elevator safety device.....	A. C. Ellithorpe.....	557,117	Mar. 31	2900	693	74	1747
Elevator safety device.....	M. C. Littleworth.....	555,456	Feb. 25	2955	702 703	74	1105
Elevator safety device.....	H. W. Rappleye.....	560,645	May 26	2414	552 553	75	1209
Elevator safety device.....	P. W. Trimborn.....	573,935	Dec. 29	3319	792	77	1974
Elevator safety-door.....	R. J. Walker.....	556,226	Mar. 10	1323	310	74	1393
Elevator safety-gate.....	W. F. Traves.....	560,306	May 19	1777	405	75	1079
Elevator-shaft-closing mechanism.....	H. D. Adell.....	555,670	Mar. 3	327	75	74	1188
Elevator-shaft-door lock.....	M. W. Collet.....	565,882	Aug. 18	1709	418	76	971
Elevator-shaft doors. Locking means for.....	T. Van Kannel.....	552,652	Jan. 7	266	72	74	52
Elevator-shafts. Device for operating vertically-sliding doors of.....	J. D. Liddell and W. H. Dashields, Jr.....	559,180	Apr. 28	2963	715	75	608
Elevator signal apparatus.....	S. B. Opdyke, Jr.....	572,561	Dec. 8	822	197 198	77	1450
Elevator signal apparatus.....	S. B. Opdyke, Jr.....	572,563	Dec. 8	833	199 200	77	1455
Elevator signal mechanism.....	S. B. Opdyke, Jr.....	572,562	Dec. 8	827	198 199	77	1453
Elevator-stop.....	W. W. Doolittle.....	563,267	July 7	57	14, 15	76	13
Elevator-stop. Automatic.....	J. W. Bowen.....	568,425	Sept. 29	2961	711	76	1890
Elevator-stop. Automatic.....	R. J. Wilson.....	559,679	May 12	974	217	75	880
Elevator stopping or starting device.....	R. C. Smith.....	565,696	Aug. 11	1372	334	76	892
Elevator-valve.....	W. H. Hultgren.....	566,982	Sept. 1	436	103	76	1364
Elevator valve-operating mechanism.....	W. H. Powers, Jr.....	540,230	May 19	1634	372	75	1055
Elevator-well door.....	G. W. Archer.....	557,634	Apr. 7	190	49	75	37
Elevator-wells. Guard-gate for.....	L. Williams.....	567,183	Sept. 8	792	187	76	1444
Elevators and elevator-doors. Locking device for.....	W. W. Wood.....	553,379	Jan. 21	1618	385	74	331
Elevators and elevator-doors. Safety locking device for.....	J. D. Conner.....	564,956	July 28	3004	715	76	600
Elevators. Automatic door opening or closing device for.....	F. E. Herdman.....	559,528	May 5	305	73, 74	75	741
Elevators. Automatic power-controller for.....	J. H. Laing.....	562,331	June 16	2222	541	75	1833

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Elevators. Automatic stop mechanism for	C. A. Macy	553,862	Feb. 4	88	18	74	521
Elevators. Base chamber or seat for hydraulic	G. H. Evans	564,062	July 14	1458	342	76	286
Elevators. Electric automatic stop for	J. D. Ihlder	560,217	May 19	1607	363	75	1051
Elevators. Electric signal apparatus for	S. C. Stickie	564,344	July 21	1944	458 459	76	389
Elevators. Electrical safety-lock for	A. C. Hunt	559,529	May 5	307	74	75	742
Elevators, &c. Main operating-valve for hydraulic	K. Bryan	561,089	June 2	21	5, 6	75	1371
Elevators. Means for operating	J. E. Putman	564,313	July 21	1893	447	76	380
Elevators. Winding device for electric cables in	D. E. Houser	557,819	Apr. 7	527	126 127	75	100
Embossing-machine	M. E. Converse	554,053	Feb. 4	457	102	74	588
Embossing-machine	W. Craban	556,491	Mar. 17	1838	428 429	74	1507
Embossing-machine	E. S. De Tamble	572,197	Dec. 1	177	43	77	1312
Embossing-machine	T. Nesom and W. D. Eckenrode	568,268	Sept. 22	2594	645	76	1824
Embossing-machine	F. Young and W. Rank	569,145	Oct. 6	732	172	77	139
Embossing-press	G. W. Swift, Jr., and C. T. Packer	558,860	Apr. 21	2350	572 573 574	75	475
Embossing-roller	F. H. Redeker and F. J. Timmer- wilke	567,918	Sept. 15	2038	489	76	1691
Embroidering-machine	A. Carpentier	566,656	Aug. 25	3046	744 745	76	1244
Embroidering-machine	E. and R. Cornely	566,061	Aug. 18	2034	493 494	76	1037
Embroidering-machine	J. A. Groebli	556,145	Mar. 10	1177	275 276	74	1368
Embroidering-machine	G. Müller	563,200	June 30	3782	906 907	75	2166
Embroidering-machine	H. C. Sheldon and W. Lockwood	566,421	Aug. 25	2664	650 651 652	76	1173
Embroidering-machine	R. T. Smith	554,428	Feb. 11	1122	262 263	74	729
Embroidering-machine	H. Spühl	562,675	June 23	2805	681	75	1958
Embroidering-machine	R. Weiss	573,119	Dec. 15	1812	436 437 438	77	1663
Embroidering-machine fabric-perforating mechanism	J. A. Groebli	556,143	Mar. 10	1170	274 275	74	1366
Embroidering-machine tension mechanism	J. A. Groebli	556,144	Mar. 10	1174	275	74	1367
Embroidering-machines. Cloth-disengaging tool for	F. A. Loeb	556,546	Mar. 17	1946	454	74	1526
Embroidery-frame	H. F. Blackstone	567,070	Sept. 1	595	138	76	1395
Embroidery-holder	W. C. Maynard	570,940	Nov. 10	948	220	77	844
Emery blocks. Manufacturing	J. J. Faulkner	557,503	Mar. 31	3613	74	1877	
Emery. Coating iron or other metallic substances with	J. J. Faulkner	557,065	Mar. 24	2816	74	1708	
Emery or other abrasive wheels. Mounting	G. I. Alden and M. P. Higgins	566,883	Sept. 1	247	57	76	1330
Emery-wheel	C. L. Merithew	555,579	Mar. 3	160	38	74	1159
Emery-wheel-truing machine	M. P. Higgins and G. I. Alden	566,908	Sept. 1	293	68, 69	76	1339
Enameled ware. Manufacture of	A. Niedringhaus	564,217	July 21	1732	76	352	
Enameled ware. Manufacture of	A. Niedringhaus	568,366	Sept. 29	2863	76	1872	
Enameling composition	A. Bagnall	556,727	Mar. 24	2231	74	1597	
Enameling-table	J. W. Arrott, Jr.	558,339	Apr. 14	1457	358	75	293
Enameling-oven	E. Arnstein	565,660	Aug. 11	1311	316	76	879
Enameling metallic surfaces	A. J. Vollrath	564,352	July 21	1955	76	391	
End-gate	C. A. Anderson	555,200	Feb. 25	2493	588	74	1019
End-gate	J. W. Ortman	553,258	Jan. 21	1398	341	74	291
End-gate	F. M. Pierce and A. C. Warner	573,794	Dec. 22	3055	724	77	1912
End-gate and fastening device therefor	W. C. Herriman	563,173	June 30	3724	892	75	2155
End-gate and shoveling-board	L. M. Buchanan	563,218	June 30	3806	912	75	2170
End-gate fastening	W. H. Arner	573,848	Dec. 29	3157	752	77	1946
End-gate. Wagon	G. Burket	567,534	Sept. 8	1396	336	76	1551
End-gate. Wagon	M. I. Conderman	574,021	Dec. 29	3490	834	77	2004
End-gate. Wagon	S. S. Crawford	572,869	Dec. 8	1360	329	77	1558
End-gate. Wagon	H. C. Fackler	560,983	May 26	2999	691	75	1322
End-gate. Wagon	B. T. Murphy	571,277	Nov. 10	1526	361	77	950
Endoscopic instrument	J. W. Daily	559,122	Apr. 28	2824	683	75	585
Engine:							
See Blowing-engine. Gas or petroleum engine.							
Carding-engine. Gas or vapor engine.							
Compound engine. Gasoline or vapor engine.							
Dental engine. Hoisting-engine.							
Direct-acting engine. Hot-air engine.							
Electric engine. Hydraulic engine.							
Electric steam or gas engine. Hydrocarbon-engine.							
Engine. Internal-combustion engine.							
Elevator-engine. Oil-engine.							
Explosive-engine. Oil and gas motor engine.							
Fire-engine. Oscillating-piston engine.							
Fluid-pressure engine. Paper-pulping engine.							
Gas-engine. Pumping engine.							
Gas and gasoline engine. Rotary engine.							
Gas and steam engine. Rotary steam-engine.							
Gas engine. Steam-engine.							
Gas or oil engine. Surgical engine.							
Gas or oil motor engine. Traction engine.							
Gas engine. Vapor-engine.							
Gas, oil, or vapor engine. Variable-cut-off engine.							
Gas, oil, or vapor engine. Wind-engine.							
Gas, oil, or vapor engine. Wind and water engine.							
Engine	F. M. Comstock	560,892	May 26	2863	656	75	1296
Engine	P. Dorsey	571,348	Nov. 17	1642	390 391	77	988

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Engine.....	H. W. Forslund.....	570,280	Oct. 27	2754	656	77	560
Engine.....	E. W. Hammon.....	553,613	Jan. 28	2022	478	74	422
Engine.....	A. L. Ide.....	569,832	Oct. 20	1960	467	77	397
Engine.....	R. D. Knight.....	556,272	Mar. 10	1411	331	74	1411
Engine.....	E. Ortmann.....	554,532	Feb. 11	1293	303 304 305	74	761
Engine.....	E. J. Pennington.....	570,439	Oct. 27	3091	735 736	77	622
Engine.....	F. C. Rinsche.....	562,029	June 16	1715	417	75	1739
Engine.....	F. C. Rinsche.....	562,423	June 23	2376	579	75	1877
Engine.....	F. C. Rinsche.....	567,725	Sept. 15	1725	414	76	1630
Engine.....	F. C. Rinsche.....	574,003	Dec. 29	3458	828	77	1999
Engine.....	M. A. Yeakley.....	571,144	Nov. 10	1309	304	77	909
Engine attachment.....	P. Chouteau.....	568,715	Sept. 29	3503	838	76	1991
Engine attachment. Steam.....	R. Freer.....	570,547	Nov. 3	207	55	77	675
Engine clutching mechanism. Rotary.....	W. E. Prall, Jr.....	562,153	June 16	1931	400	75	1777
Engine controlling mechanism.....	J. L. Heald.....	554,340	Feb. 11	970	224 225	74	699
Engine-controlling mechanism.....	W. H. Knight.....	562,305	June 16	2181	530	75	1825
Engine crank-disk. Steam.....	E. J. Armstrong.....	561,071	May 26	3144	726	75	1349
Engine crank-disk. Steam.....	E. J. Armstrong.....	561,533	June 2	840	204	75	1530
Engine-coupling.....	J. MacKenzie.....	570,672	Nov. 3	474	111	77	726
Engine-cylinder.....	J. R. Bennett.....	564,269	July 21	1824	427	76	368
Engine cylinder. Explosive.....	W. F. Davis.....	563,140	June 30	3673	879	75	2145
Engine cylinder-head.....	J. G. Leyner.....	561,676	June 9	1091	262	75	1601
Engine for log-moving.....	H. G. Dittbenner.....	553,229	Jan. 21	1347	327 328	74	281
Engine gearing. Gas or explosive.....	D. S. Regan.....	558,420	Apr. 14	1595	389	75	317
Engine igniter. Explosive.....	T. G. Cantrell.....	564,737	July 28	2619	624	76	531
Engine igniter. Gas.....	L. H. Nash.....	563,051	June 30	3499	840	75	2112
Engine igniter. Gas.....	F. J. Rettig.....	573,296	Dec. 15	2141	514	77	1721
Engine igniting device. Gas.....	A. J. Pierce.....	564,642	July 28	2463	580	76	502
Engine or motor.....	J. F. Duryea.....	557,496	Mar. 31	3591	860 861	74	1873
Engine-shaft rotation indicator.....	S. H. Hunter.....	574,328	Dec. 29	4078	969	77	2112
Engine starter. Gas.....	C. J. Weinman and E. E. Euchen- hofer.....	569,365	Oct. 13	1120	267	77	230
Engine-starting apparatus.....	J. Donnelly.....	557,259	Mar. 31	3176	762	74	1793
Engine steering device. Traction.....	G. C. Stevenson.....	567,696	Sept. 15	1676	403	76	1621
Engine steering device. Traction.....	N. Weiler.....	559,643	May 5	500	115	75	777
Engine-stop. Automatic.....	A. K. Bonta.....	569,445	Oct. 13	1251	293 294	77	253
Engine stop-motion.....	E. C. Myrick and G. C. Doeg.....	561,171	June 2	176	44, 45	75	1400
Engine stop-motion. Steam.....	E. C. Myrick and G. C. Doeg.....	561,170	June 2	169	43, 44	75	1399
Engine-stopping apparatus.....	G. W. Brown.....	563,611	June 30	3435	826	75	2100
Engines. Appliance for starting gas and oil motor.....	H. Schumm.....	569,942	Oct. 20	2156	511	77	434
Engines. Automatic speed-limit for.....	J. R. Reynolds.....	571,957	Nov. 24	2720	841	77	1208
Engines. Electric igniter for gas.....	L. M. Bourgeois, Jr.....	564,182	July 21	1683	393	76	342
Engines. Electric igniter for gas or hydrocarbon.....	F. M. Spaulding.....	562,673	June 23	2803	681	75	1957
Engines. Igniter for explosive.....	L. S. Gardner.....	562,720	June 23	2892	702	75	1974
Engines. Igniting apparatus for gas or explosive.....	G. E. Hoyt.....	561,890	June 9	1484	357	75	1675
Engines. Igniting device for gas or petroleum.....	A. A. Hamerschlag.....	561,866	June 9	1468	354 355	75	1672
Engines. Igniting device for gas, petroleum, or other.....	H. Ebbs.....	566,300	Aug. 25	2425	594	76	1127
Engines. Indicator reducing-motion for.....	C. P. Turner and D. L. Mekeel.....	555,668	Mar. 3	324	74	74	1188
Engines. Mixer for gas.....	F. M. Underwood.....	574,183	Dec. 29	3811	910 911	77	2062
Engines. Operation of gas.....	M. Blakey.....	571,966	Nov. 24	2732	646	77	1210
Engines. Reversing mechanism for rotary.....	W. E. Prall, Jr.....	572,716	Dec. 8	1113	269 270	77	1510
Engines. Sparker for gas and gasoline.....	F. M. Underwood.....	553,181	Jan. 14	1265	306	74	251
Engines. Starting gas or hydrocarbon.....	P. A. N. Winand.....	561,302	June 2	422	104	75	1452
Engraver's block.....	H. Straw.....	564,543	July 21	2271	532 533	76	448
Engraver's ruling-machine.....	P. M. Nouel and J. R. Martini.....	564,636	July 28	2454	577	76	500
Engraving.....	N. S. Amstutz.....	569,595	Oct. 13	1531	359	77	304
Engraving.....	W. S. Eaton.....	573,967	Dec. 29	3397	814	77	1988
Engraving and carving machine.....	C. C. Delin.....	560,574	May 19	2234	511 512	75	1161
Engraving brass or other rules, bars, or similar ar- ticles. Machine for.....	W. Spencer.....	559,222	May 12	852	190 191	75	857
Engraving-machine.....	G. W. Littlehales.....	561,677	June 9	1093	262 263	75	1601
Engraving-machine.....	B. S. Molyneux.....	555,581	Mar. 3	164	38, 39	74	1160
Engraving-machine.....	B. F. Stowell.....	570,070	Oct. 27	2372	564	77	487
Envelop.....	W. Albers.....	573,123	Dec. 15	1819	439	77	1664
Envelop.....	A. M. Chalmers.....	570,380	Oct. 27	2968	704	77	599
Envelop.....	M. Donnelly.....	563,847	July 14	1055	249	76	212
Envelop.....	T. F. Handley.....	557,202	Mar. 31	3077	737	74	1776
Envelop.....	R. Hirsch.....	564,247	July 21	1777	416	76	361
Envelop.....	C. Lee and E. J. Baldwin.....	572,488	Dec. 1	694	166 167	77	1114
Envelop.....	O. E. Lee.....	565,470	Aug. 11	943	224	76	812
Envelop.....	W. S. Mayer.....	572,554	Dec. 8	812	195	77	1449
Envelop.....	A. McCance.....	570,289	Oct. 27	2770	659	77	563
Envelop.....	P. G. Muenchinger.....	570,557	Nov. 3	235	59	77	681
Envelop.....	L. G. Stocking.....	574,284	Dec. 29	4012	932	77	2099
Envelop and moistening implement.....	F. G. Presnell.....	561,239	June 2	280	70	75	1422
Envelop-fastener.....	E. A. Day.....	566,065	Aug. 18	2040	497	76	1037
Envelop-fastener.....	O. A. Logan.....	558,823	Apr. 21	2293	557	75	464
Envelop-fastener.....	J. T. Rosenheimer.....	552,970	Jan. 14	899	218	74	182

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Envelop-machine	J. Dennis, W. S. Metcalfe, and J. A. Sherman.	558,784	Apr. 21	2229	537 538 539 540	75	452
Envelop-machine	E. M. Low	556,062	Mar. 10	1024	245 246	74	1339
Envelop-machine	E. M. Low	556,063	Mar. 10	1029	246 247	74	1340
Envelop-machine	J. D. Robertson	556,026	Mar. 10	947	225 226	74	1326
Envelop. Safety	W. S. Andrews	554,640	Feb. 18	1495	350	74	815
Envelop. Safety	M. Clarke	561,762	June 9	1258	300	75	1633
Envelop. Safety	T. R. Jordan	561,894	June 9	1488	358 359	75	1676
Envelop. Safety	A. Mortenson	555,613	Mar. 3	218	51	74	1170
Envelop-sealer	G. H. Talbot	556,942	Mar. 24	2599	611	74	1664
Envelops. Machine for fixing threads in	M. Grube	566,075	Aug. 18	2054	500 501	76	1040
Envelops. Machine for fixing threads in	M. Grube. (Reissue)	11,577	Dec. 8	1500	359	77	1586
Envelops. Machine for making	J. H. Dale and H. Denney	558,446	Apr. 14	971	237 238	75	200
Envelops or the like. Machine for marking	J. Geary	568,845	Oct. 6	218	52	77	43
Envelops or wrappers for newspapers, &c. Opener for	F. E. Munn	562,336	June 16	2231	542	75	1835
Eraser	H. B. Collins	570,456	Nov. 3	30	7	77	644
Eraser	G. W. Moorhead	556,762	Mar. 24	2305	542	74	1610
Eraser	J. O. Smith	561,181	June 2	195	48	75	1404
Eraser. Blackboard	C. J. Becker	559,765	May 5	718	170	75	817
Eraser. Chemical ink	J. W. Tallmadge	556,785	Mar. 24	2344	74	74	1617
Eraser holder. Rubber	C. V. Henkel	560,578	Aug. 25	2942	718	76	1224
Eraser, pencil-holder, and letter-scale. Combined	J. J. Walsh	561,635	June 9	1026	246	75	1589
Erasive rubbers. Inclosing case for	J. E. Landers	556,681	Mar. 17	2149	502	74	1564
Escapement mechanism	C. E. Allen	562,561	June 23	2608	633	75	1919
Ester of alkoylamidophenols and making same	O. Hinsberg	569,416	Oct. 13	1208	77	77	245
Ether. Obtaining	M. Otto and A. Verley	562,193	June 16	2000	75	75	1791
Ethyl-chlorid receptacle	J. Bengué	558,762	Apr. 21	2192	527	75	445
Eucalyptol. Obtaining	L. R. Scammell	557,431	Mar. 31	3482	74	74	1853
Evaporating apparatus	T. Craney	572,333	Dec. 1	437	103	77	1362
Evaporating apparatus. Brine	E. G. Scott	566,627	Aug. 25	3007	734	76	1237
Evaporating apparatus. Liquid	C. W. Cooper	553,841	Feb. 4	52	11	74	515
Evaporating apparatus. Liquid	L. F. Hauptman	568,614	Sept. 29	3325	797	76	1957
Evaporating apparatus. Liquid	L. F. Hauptman	568,615	Sept. 29	1327	797	76	1957
Evaporating apparatus. Liquid	L. F. Hauptman	569,456	Oct. 13	1264	297 298	77	235
Evaporating or vaporizing apparatus	J. L. Stratton and F. Murdock	568,928	Oct. 6	356	82	77	68
Evaporating-pan	G. H. Brower	556,957	Mar. 24	2624	617	74	1669
Evaporating-pan	L. F. Hauptman	573,219	Dec. 15	1993	479	77	1696
Evaporating-pan	F. Kleemann	572,304	Dec. 1	388	92	77	1352
Evaporating-pan cover	J. S. McCullough	566,005	Aug. 18	951	473	76	1021
Evaporator	J. W. Loomis	553,532	Jan. 28	1880	444	74	396
Evaporator	J. W. Mote	552,667	Jan. 7	288	78	74	56
Evaporator	D. A. Quiggin	571,242	Nov. 10	1469	344	77	939
Evaporator burner or stove	Z. Davis	555,436	Feb. 25	2915	692 693	74	1097
Evaporator for tank-waters, &c.	E. Holthaus	556,147	Mar. 10	1182	277	74	1368
Evaporator. Fruit	H. M. Amos	556,912	Mar. 24	2554	602	74	1656
Evaporator. Fruit	W. Bolinger	552,981	Jan. 14	916	222	74	185
Evaporator. Fruit	A. Lehmann	573,787	Dec. 22	3042	721	77	1909
Evaporator. Steam fruit	J. S. Allen	554,639	Feb. 18	1493	350	74	815
Excavated material. Apparatus for handling and disposing of	C. L. Gould	562,820	June 30	3086	747 748	75	2028
Excavating apparatus. Earth	H. Nettelbeck	556,513	Mar. 17	1893	440 441	74	1516
Excavating, &c. Bucket or grapple for	G. M. Urie	564,038	July 14	404	326 327	76	275
Excavating, conveying, and loading or unloading earth, &c., upon or from railway-cars. Machine for	M. W. Robinson, R. Frick, and F. H. Shields	555,889	Mar. 3	681	164 165 166	74	1256
Excavating-machine	F. S. Hoyt	566,318	Aug. 25	2461	603 604	76	1132
Excavating-machine	H. R. Keithley	567,274	Sept. 8	953	227	76	1471
Excavating-machine. Bicycle-path	C. L. Barrett	571,915	Nov. 24	2652	628	77	1193
Excavating-machine elevators. Adjustable head-block for	W. R. Mercer	552,920	Jan. 14	812	198	74	165
Excavating machinery	D. I. Calhoun	552,575	Jan. 7	121	33, 34	74	25
Excavating, removing, and depositing earthy matter. Apparatus for	H. C. Lowrie	565,549	Aug. 11	1105	267 268	76	841
Excavator	W. H. Fulcher	558,452	Apr. 14	1662	399 400	75	332
Excavator	H. R. Keithley	564,695	July 28	2537	601 602	76	516
Excavator	H. R. Keithley	564,696	July 28	2543	602	76	518
Excavator	J. Kewley	552,580	Jan. 7	131	36, 37	74	26
Excavator	P. J. Maloney	556,012	Mar. 10	924	220	74	1322
Excavator	F. M. Phillips and E. Stebinger	573,698	Dec. 22	2902	686	77	1882
Excavator	J. J. Prendergast	563,941	July 14	1238	289	76	245
Excavator and conveyer. Combined	J. J. Trainor	564,727	July 28	2606	621	76	528
Excavator for hydraulic dredgers	A. B. Bowers	565,132	Aug. 4	320	77	74	676
Excelsior-machine	D. A. Heikel	554,267	Feb. 11	844	193	74	676
Excelsior. Machine for making	L. T. Kline	561,591	June 9	950	227 228	75	1575
Excelsior. Machine for manufacture of	C. Hass	561,393	June 2	582	145 146	75	1481
Excelsior wrappers or pads. Machine for manufacturing	H. F. Shadbolt	570,236	Oct. 27	2672	636 637	77	545

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Exercising apparatus	G. C. Edwards	559,270	Apr. 28	3140	759	75	641
Exercising apparatus	E. Sandow	552,971	Jan. 14	900	218 219	74	182
Exercising apparatus	A. A. Whitely	557,176	Mar. 31	3008	718	74	1766
Exercising apparatus. Aquatic	G. C. Tilyou and J. M. A. Lacomme	567,056	Sept. 1	569	133	76	1389
Exercising device	G. Gossweiler	562,389	June 23	2325	565 566	75	1867
Exercising-machine	F. Hulsmann	554,636	Feb. 11	1488	348	74	797
Exhaust apparatus	J. Y. Smith	573,547	Dec. 22	2616	621	77	1827
Exhauster	L. Schutte	571,022	Nov. 10	1082	253	77	868
Exhibiting samples of garments	M. A. Adler	569,531	Oct. 13	1397	330	77	279
Exhibition apparatus	W. M. Cline	564,971	Aug. 4	21	4, 5	76	621
Exhibition apparatus. Roentgen-ray	A. A. Hamerschlag	568,720	Sept. 29	3512	841 842	76	1993
Exhibitor	H. T. Van Denbergh	556,520	Mar. 17	1909	444	74	1519
Exhibitor. Rotary	T. S. Grisell	560,789	May 26	2668	613	75	1258
Expansion-bit	A. B. Stone	560,050	May 12	1290	290	75	940
Expansion-bolt	I. Church	570,786	Nov. 3	668	153	77	761
Explosive charge. Cellular	H. Maxim	552,919	Jan. 14	810	197	74	165
Explosive-engine	G. Alderson	560,016	May 12	1222	273 274	75	927
Explosive-engine	E. E. Ludl	572,209	Dec. 1	198	49, 50	77	1316
Explosive-engine	G. H. Willetts	567,530	Sept. 8	1390	335	76	1550
Explosive. Safety	M. Bielefeldt	565,593	Aug. 11	1191		76	856
Explosives. Heater for	H. Vulpius	571,712	Nov. 17	2258	542	77	1100
Exposure-meter	V. L. George and C. L. Woodside	554,865	Feb. 18	1882	443	74	890
Extension and retraction device	J. J. Gier	569,494	Oct. 13	1329	312	77	267
Extension-case	N. Goldberg	567,026	Sept. 1	515	122	76	1379
Extension-screen	H. A. Way	569,073	Oct. 6	613	139	77	117
Extension-seat	A. McNaughton	558,201	Apr. 14	1223	298	75	248
Extension-table	W. G. Boughton	552,510	Jan. 7	15	5	74	6
Extension-table	J. Cornell	565,670	Aug. 11	1325	320	76	882
Extension-table	E. S. Dilworth	554,361	Feb. 11	1004	232 233	74	706
Extension-table	E. A. Loomis	555,727	Mar. 3	412	95	74	1204
Extension-table	J. H. Robbins	556,645	Mar. 17	2092	490	74	1553
Extension-table	E. J. Roberts	569,059	Oct. 6	591	135	77	113
Extension-table	J. Stephens and G. De Marce	570,572	Nov. 3	260	65	77	686
Extension-table	E. Zimbaum	557,933	Apr. 7	718	173	75	136
Extension-table. Circular	G. Krueger	572,172	Dec. 1	137	32, 33	77	1303
Extirpator	A. Merrel and A. Duffek	555,219	Feb. 25	2520	594 595	74	1024
Extractor:							
See Centrifugal extrac-	Nail-extractor.						
tor.	Pen-point extractor.						
Cork-extractor.	Spike-extractor.						
Hydro-extractor.	Stump-extractor.						
Lemon-juice ex-	Tree-extractor.						
tractor.							
Eye and tongue support for artificial heads and maaks	I. Roescher	569,475	Oct. 13	1292	304	77	260
Eye for garment-fastenings. Multiple	M. O. Rehfuß	561,519	June 2	812	198	75	1524
Eye-shade	C. P. Mosher	569,117	Oct. 6	680	159	77	130
Eyeglass-case	P. Closs	559,438	May 5	162	35	75	712
Eyeglass-cases, &c. Clasp for	A. G. Williams	569,267	Oct. 13	948	227	77	196
Eyeglass-frame	R. B. Fowler	566,304	Aug. 25	2435	596	76	1128
Eyeglass-holder	A. Zestermann	553,325	Jan. 21	1525	365	74	313
Eyeglass nose-guard	E. B. Meyrowitz	572,306	Dec. 1	392	93	77	1353
Eyeglass nose-guard	E. B. Meyrowitz	572,307	Dec. 1	396	93	77	1353
Eyeglass nose-piece	H. Borsch	564,501	July 21	2200	516	76	436
Eyeglass nose-piece	H. Borsch	568,294	Sept. 22	2737	657	76	1833
Eyeglass nose-piece	J. L. Borsch	563,126	June 30	3654	875	75	2142
Eyeglass nose-piece gage	W. S. Essack	572,106	Dec. 1	17	5	77	1281
Eyeglasses	A. N. Baker	565,420	Aug. 11	849	200	76	793
Eyeglasses	J. J. Bausch	554,227	Feb. 11	763	174	74	661
Eyeglasses	M. Bergsjö	559,320	Apr. 28	3215	776	75	654
Eyeglasses	J. E. Boyle	557,323	Mar. 31	3290	789	74	1815
Eyeglasses	J. H. E. De Celles	553,975	Feb. 4	314	89	74	562
Eyeglasses	J. H. E. De Celles	560,156	May 12	1486	336	75	977
Eyeglasses	F. Heilborn	564,518	July 21	2229	523	76	441
Eyeglasses	J. W. Riglander	565,796	Aug. 11	1548	377	76	924
Eyeglasses and spectacles	W. Bausch	572,670	Dec. 8	1019	246	77	1492
Eyeglasses. Bar-spring	E. B. Meyrowitz	555,459	Feb. 25	2959	703	74	1106
Eyeglasses or spectacles	C. J. Bailey	567,955	Sept. 22	2118	510	76	1719
Eyelet	E. Kempshall	553,164	Jan. 14	1230	299	74	245
Eyelet	E. Kempshall	554,624	Feb. 11	1471	344	74	794
Eyelet	E. Kempshall	557,992	Apr. 7	828	197	75	156
Eyelet	E. Kempshall	568,687	Sept. 29	3461	828	76	1983
Eyelet	E. Kempshall	569,970	Oct. 20	2198	522	77	441
Eyelet	J. C. Rhodes	565,091	Aug. 4	241	59	76	661
Eyelet	D. C. See	572,033	Nov. 24	2842	669	77	1229
Eyelet-covering apparatus	E. Kempshall	556,635	Mar. 17	2080	487	74	1551
Eyelet-covering device	E. Kempshall	566,080	Aug. 18	2064	503	76	1042
Eyelet-covering mechanism	E. Kempshall	553,166	Jan. 14	1231	300	74	246
Eyelet. Lacing	R. C. Pleins	564,579	July 21	2352	553	76	462
Eyelet-setting machine	H. B. Baker	567,287	Sept. 8	979	232	76	1476
Eyelets. Assembling and transferring mechanism for	A. C. Estabrook	572,340	Dec. 1	444	105	77	1364
Eyelets. Device for assembling	A. C. Estabrook	563,757	July 14	882	210	76	182
Eyelets, &c. Device for feeding	A. Latham	568,201	Sept. 22	2582	622	76	1803
Eyelets. Device for finishing covered	A. C. Estabrook	566,850	Sept. 1	196	45	76	1320
Eyelets. Device for making covered	A. C. Estabrook	564,602	July 22	2397	565	76	490
Eyelets. Device for making covered	A. C. Estabrook	568,131	Sept. 22	2465	592	76	1781
Eyelets. Device for making covered	A. C. Estabrook	568,940	Oct. 6	378	86	77	73

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Eyelets. Device for making covered.....	F. N. Look	568,317	Sept. 22	2777	668	76	1842
Eyelets. Die for applying plastic coverings on.....	A. Latham	571,837	Nov. 24	2497	591	77	1165
Eyelets. Machine for manufacturing plastic covered.....	A. Latham	566,691	Aug. 25	3110	760	76	1255
Eyelets with plastic material. Die for covering.....	A. Latham	568,360	Sept. 29	2855	686	76	1871
Eyeletting-machine.....	R. F. Barry	562,368	June 23	2295	558	75	1862
Eyeletting-machines. Punch-block holder for.....	T. Long and E. Corbett.....	553,715	Jan. 28	2195	521	74	454
Eyes. Instrument for determining errors of refraction in.....	A. Clarke.....	64,145	July 14	1599	374 375	76	315
Fabric: See Carpet fabric. Pile fabric. Knit fabric. Tire fabric. Moquette fabric. Tubular fabric. Ornamental fabric. Woven figured fabric.							
Fabric and producing finished edges thereon.....	T. W. Bracher.....	567,948	Sept. 15	2102	506 507 507	76	1702
Fabric-cutting machine.....	R. T. Palmer, Jr., and F. W. Mercer.....	564,026	July 14	1381	321 332	76	272
Fabric-cutting machines. Guide for.....	J. D. Hemphill and G. H. Radcliffe.....	557,815	Apr. 7	522	126	75	99
Fabric finish or border.....	J. M. Morrow	553,536	Jan. 28	1886	446	74	398
Fabric-folding machine.....	F. Dehaitre	554,020	Feb. 4	399	87	74	578
Fabric for tubular articles.....	J. Lyall	562,312	June 16	2193	533	75	1827
Fabric-napping mechanism.....	P. W. Cochrane	558,353	Apr. 14	1475	362	75	296
Fabric or goods holder.....	L. Johnson and L. Fridlund	554,934	Feb. 18	2001	474	74	911
Fabrics. Machine for cutting ribbed.....	C. F. and H. F. Adams	572,094	Dec. 1	1	1	77	1279
Fabrics. Means for treating woven.....	C. Crossley	569,015	Oct. 6	518	118 119	77	98
Fabrics. Mordanting textile.....	A. Ganswindt	568,344	Sept. 29	2832		76	1866
Face-protector.....	M. Tolle	557,625	Apr. 7	166	43	75	33
Face-steaming apparatus.....	O. A. Weissenborn.....	571,587	Nov. 17	2048	488	77	1060
Facet-grinding machine.....	M. Offenbacher	556,515	Mar. 17	1900	442	74	1517
Facing-machine.....	W. W. Doolittle.....	572,599	Dec. 8	901	217 218 219	77	1469
Fan.....	M. Rubin	555,339	Feb. 25	2736	641	74	1064
Fan attachment for rocking-chairs, &c.....	C. Schurmann and J. J. Brophy.....	566,476	Aug. 25	2796	679 680	76	1196
Fan attachment for rocking-chairs, &c.....	C. Schurmann and J. J. Brophy.....	573,541	Dec. 22	2607	618 619	77	1825
Fan. Car.....	C. A. Evans	552,660	Jan. 7	278	75	74	54
Fan. Centrifugal.....	W. J. Baldwin	556,453	Mar. 17	1777	412	74	1495
Fan-concentrator.....	W. R. Marshall.....	566,000	Aug. 18	1944	470 471	76	1020
Fan-concentrator.....	W. R. Marshall.....	566,001	Aug. 18	1946	471	76	1020
Fan device and rocking-chair. Automatic.....	P. Serge-Kisslow	573,167	Dec. 15	1895	456	77	1677
Fan. Electric-motor.....	J. D. Brinser	560,569	May 19	2222	508	75	1158
Fan for ventilating streets or alleys. Electric.....	V. V. Hedges	572,008	Nov. 24	2801	660 661	77	1222
Fan-motor.....	R. H. Hassler	557,384	Mar. 31	3398	816	74	1836
Fan. Motor-driven.....	S. O. Tuerk	555,294	Feb. 25	2662	623	74	1050
Fan. Motor-driven.....	S. O. Tuerk	570,651	Nov. 3	432	103	77	718
Fan. Revolving.....	S. O. Tuerk	561,362	June 2	529	133 134	75	1471
Fan. Rocking-chair.....	L. W. and E. E. Martyr	564,566	July 21	2328	546	76	458
Fan. Ventilating.....	A. H. Berry	557,758	Apr. 7	427	100	75	81
Fan. Water-motor.....	W. J. Mingle	572,558	Dec. 8	819	197	77	1450
Fan. Water-motor.....	W. J. Mingle and T. Bemis	565,772	Aug. 11	1513	368	76	917
Fans, &c. Means for operating.....	A. A. D., and M. Flores.....	573,774	Dec. 22	3025	717	77	1906
Fanning-mill.....	M. J. Frambach	569,629	Oct. 20	1594	376	77	332
Fancy box.....	H. and A. H. Stevenson	571,206	Nov. 10	1401	328	77	927
Faradic battery. Portable.....	J. E. Unger	556,708	Mar. 17	2183	510	74	1571
Fare-box.....	J. H. Coleman	552,892	Jan. 14	747	182	74	154
Fare-box.....	C. T. Lamoureux	557,131	Mar. 31	2930	702	74	1753
Fare-box.....	D. S. Macorquodale.....	562,841	June 30	3124	756 757	75	2036
Fare indicator and recorder.....	C. H. Wright.....	559,922	May 12	1055	235	75	894
Fare indicator, register, and recorder.....	H. Jondet	556,890	Mar. 24	2514	593 594	74	1650
Fare-register.....	S. M. Balzer	556,955	Mar. 24	2619	615 616	74	1668
Fare-register.....	F. C. Boyd and C. E. Gierding.....	559,321	Apr. 28	3215	776 777 778 779	75	654
Fare-register.....	C. L. Logan	563,289	July 7	92	23	76	20
Fare-register.....	J. F. Ohmer	560,529	May 19	2151	492	75	1146
Fare-register.....	M. Stopper	553,876	Feb. 4	121	24	74	528
Fare register and indicator.....	E. Gray	561,310	June 2	434	107	75	1454
Fare-register operating device.....	J. W. Meaker	564,252	July 21	1785	418 419	76	362
Fare-register. Recording.....	W. H. Honies	567,315	Sept. 8	1032	247 248 249 250	76	1486
Fare-registering apparatus.....	F. W. G. Bruhn	571,989	Nov. 24	2772	654	77	1217
Fares. Means for insuring registration of street-car.....	D. W. Harper	561,314	June 2	441	109	75	1455
Fares on railways. Device for insuring collection of.....	G. L. Lukens	552,778	Jan. 7	719	175	74	134
Farm-gate.....	R. N. Barger	565,422	Aug. 11	853	201	76	794
Farm-gate.....	A. Butterfield	569,855	Oct. 20	2002	477	77	405
Farm-gate.....	L. P. Cota and I. L. Edwards	572,473	Dec. 1	672	159 160	77	1406
Farm-gate.....	R. Love	569,026	Oct. 8	534	123	77	101
Farm-gate.....	J. H. Norris	566,216	Aug. 18	2293	561	76	1085
Farm-gate.....	J. W. Putt	570,714	Nov. 3	544	126	77	739
Farm-gate.....	A. Todd	552,937	Jan. 14	846	204	74	173

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Farm-gate	W. H. H. West	567,670	Sept. 15	1634	394	76	1613
Farrier's knife	F. M. Me Cartea	567,493	Sept. 8	1336	322	76	1541
Fastener	A. B. Silverston	574,009	Dec. 29	3470	829	77	2001
Fastener	W. V. Thompson	572,735	Dec. 8	1149	277	77	1516
Fastener and hinge for coffins, boxes, &c	L. L. Pletcher	557,602	Apr. 7	128	33	75	25
Fastener for arctics, overshoes, &c	W. S. Richardson	566,339	Aug. 25	2499	613	76	1141
Fastener for shoes, &c	W. C. Leiber	571,450	Nov. 17	1807	432	77	1048
Fastener or clasp for articles of apparel	C. E. Mixer and C. L. Lewis	573,829	Dec. 22	3131	746	77	1925
Fastener-socket	J. D. Stirkler	570,069	Oct. 27	2371	563	77	467
Fastener. String	C. C. Pine	559,206	Apr. 28	3010	728	75	618
Fastening. Detachable	E. D. Chadwick	572,865	Dec. 8	1356	327	77	1557
Fastening device	W. S. Bechtold	573,754	Dec. 22	2997	710	77	1900
Fastening device	W. Munro	573,685	Dec. 22	2886	682	77	1879
Fastening device	J. J. Rafter	562,417	June 23	2363	577	75	1875
Fastening device	S. G. Temple	569,308	Oct. 13	1026	244	77	212
Fastening device	H. C. Warren	559,012	Apr. 28	2631	641	75	545
Fastening device. Metal	G. G. Wyland	553,886	Feb. 4	142	28	74	532
Fastenings into leather. Machine for inserting metallic	L. Goddn	556,073	Aug. 4	194	48	76	654
Fastenings. Machine for making and driving metallic	W. S. Hamm and A. W. Eaton	571,227	Nov. 10	1436	335	77	933
Fastenings. Machine for setting metallic	E. Kempshall	561,324	June 2	458	113	75	1459
Fats. Refining and bleaching animal	E. Meissl	568,983	Oct. 6	465	121	77	89
Faucet	N. S. Cary	568,238	Sept. 22	2653	635	76	1817
Faucet	A. Clarke	571,065	Nov. 10	1152	269	77	882
Faucet	T. J. Fowler and F. Fetic	562,127	June 16	1887	458	75	1770
Faucet	J. S. Lester	562,628	June 23	2737	664	75	1944
Faucet	B. Pearson	560,749	May 26	2586	596	75	1243
Faucet	C. R. Schmidt	572,911	Dec. 8	1436	344	77	1572
Faucet	F. Spahr	568,217	Sept. 22	2611	628	76	1809
Faucet	C. Whittaker	566,432	Aug. 25	2668	656	76	1177
Faucet and air-inlet attachment	C. L. J. Pokrantz and J. C. de St. Hubert	566,921	Oct. 6	345	80	77	66
Faucet and filter. Combined	T. Linke and H. E. Gould	554,281	Feb. 11	869	200	74	681
Faucet and valve. Compression	A. S. Hills	563,405	Sept. 29	2926	704	76	1883
Faucet attachment for drawing beer, &c	W. W. Newhall	552,771	Jan. 7	492	121	74	93
Faucet attachment. Force-feed	G. P. Gates and G. Thauer	562,892	June 30	3221	778	75	2055
Faucet attachment. Self-measuring	C. H. Kaup	553,820	Mar. 3	555	132	74	1231
Faucet. Automatic measuring and registering	W. M. Price	571,685	Nov. 17	2207	532	77	1090
Faucet-coupling	L. S. Grossman	565,452	Aug. 11	906	216	76	804
Faucet for beer or other casks	E. W. Kelley	561,402	June 2	602	150	75	1485
Faucet for beer or other casks	E. W. Kelley and R. B. Seeton	557,395	Mar. 31	3413	820	74	1840
Faucet for liquids under pressure. Regulator	S. C. Freels	563,952	July 14	1264	296	76	250
Faucet. Liquid	J. H. Beare	567,877	Sept. 15	1983	476	76	1681
Faucet. Measuring	C. E. Kent	568,689	Sept. 29	3463	828	76	1953
Faucet. Measuring	A. J. Lassen	572,017	Nov. 24	2813	664	77	1224
Faucet. Oil-can	G. W. Arper. (Reissue)	11,560	July 28	3010	716	76	601
Faucet or tap	J. Paulus	563,307	July 7	124	30	76	26
Faucet. Registering	C. Van Graafeiland	569,439	Oct. 13	1240	291	77	251
Faucet-reseating tool	S. H. Lea	571,572	Nov. 17	2027	482	77	1057
Faucet. Self-closing	J. M. Teahen and W. E. French	557,720	Apr. 7	345	81	75	66
Faucet. Self-closing	W. A. Turner	570,306	Oct. 27	2850	676	77	577
Faucet. Self-measuring	B. F. Beard	557,538	Apr. 7	11	3	75	4
Faucet. Slow-closing	W. A. Turner	557,292	Mar. 31	3238	776	74	1805
Faucet. Steam-beer	C. J. Schuster	565,802	Aug. 11	1559	380	76	926
Faucet. Washstand	W. A. Kelly	556,755	Mar. 24	2289	538	74	1607
Feather-beater	C. S. Smith	568,215	Sept. 22	2608	627	76	1809
Feather boas. Apparatus for making	T. W. Austin	559,563	May 5	367	89	75	754
Feather-curler	D. N. Roston	556,166	Mar. 10	1218	284	74	1375
Feather-renovating apparatus	W. A. Loughry	569,791	Oct. 20	1901	451	77	386
Feathers from fowls. Device for removing	F. T. Busse	554,050	Feb. 4	451	99	74	587
Fecal closet	C. H. Bennett	559,432	May 5	152	33	75	710
Feed-box	C. Hermany and C. G. Snead	564,788	July 28	2713	644	76	547
Feed-box	W. B. Martin	557,590	Apr. 7	111	28	75	22
Feed-box	H. Still	556,033	Mar. 10	965	231	74	1328
Feed-box and manger	D. L. Richmond	556,900	Mar. 24	2536	598	74	1653
Feed-box for mangers	M. Hodgson	554,779	Feb. 18	1729	405	74	860
Feed-boxes. Automatic attachment for	C. S. Locke	566,778	Sept. 1	74	19	76	1294
Feed-chopping apparatus	E. B. Case	552,820	Jan. 7	607	147	74	114
Feed-cutter	J. Q. Adams	565,417	Aug. 11	845	199	76	793
Feed-cutter	J. N. Barnes	563,006	June 30	3428	825	75	2099
Feed-cutter	A. Kaltenbrunn	573,883	Dec. 29	3233	770	77	1958
Feed-cutter	E. Little	553,925	Feb. 4	232	50	74	548
Feed-cutting and corn-husking machine	W. Gutenkunst	566,310	Aug. 25	2445	599	76	1130
Feed-distributor	J. Lucas	565,008	Aug. 4	78	19	76	632
Feed for boiler-pumps. Automatic steam	E. E. Row	565,798	Aug. 11	1551	378	76	924
Feed-holding bin	W. S. Witten	564,495	July 21	2193	511	76	435
Feed mechanism. Boiler	F. W. Ofeldt	565,119	Aug. 4	300	71	76	672
Feed-mill	F. Philip	565,690	Aug. 11	1359	330	76	889
Feed-rack	E. M. Macy	574,100	Dec. 29	3633	868	77	2031
Feed rack and trough	G. W. Williams	555,839	Mar. 3	585	140	74	1236
Feed regulating and measuring apparatus	E. E. Hollister	564,929	July 28	2953	704	76	592
Feed shredder and alarm. Boiler	J. M. Williams	559,555	May 5	353	85	75	751
Feed-trough	G. W. Packer	553,314	Jan. 21	1506	361	74	310
Feed-trough	G. M. Condit	554,985	Feb. 18	2085	496	74	927
Feed-trough	C. B. Emery	574,812	Dec. 29	4051	962	77	2107
Feed-trough	A. Lewis	555,781	Mar. 3	483	116	74	1218
Feed-trough	H. Mendenhall and F. B. Davis	558,694	Apr. 21	2081	503	75	424
Feed-trough	E. J. Nason	571,280	Nov. 10	1530	362	77	951
Feed-trough	W. W. Simcoe	555,290	Feb. 25	2655	621	74	1049
Feed-trough	G. T. Winters	559,114	Apr. 28	2808	680	75	581
Feed-trough	W. S. Witten	557,466	Mar. 31	3536	845	74	1863

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Feed-water heater.....	J. W. Casey.....	562,574	June 23	2648	641	75	1928
Feed-water heater.....	T. J. Cookson.....	562,888	June 30	3214	777	75	2053
Feed-water heater.....	W. Downs and A. H. Blackburn.....	572,247	Dec. 1	268	65	77	1329
Feed-water heater.....	C. W. Eccleston.....	557,260	Mar. 31	3176	762	74	1793
Feed-water heater.....	G. T. Munday.....	566,602	Aug. 25	2975	726	76	1231
Feed-water heater.....	D. Myers.....	554,715	Feb. 18	1616	381	74	840
Feed-water heater.....	W. Schmidt.....	572,573	Dec. 8	851	204 205	77	1459
Feed-water heater.....	W. L. Shepard.....	573,111	Dec. 15	1801	434	77	1661
Feed-water heater.....	S. Smith.....	559,757	May 5	705	167	75	815
Feed-water heater.....	J. G. Williams and J. Prince.....	553,145	Jan. 14	1192	289	74	239
Feed-water heater and condenser.....	J. M. Keller.....	570,435	Oct. 27	3083	731 732	77	620
Feed-water heater and purifier.....	H. Bernauer and N. S. Chapman.....	561,195	June 2	218	53	75	1409
Feed-water heater and purifier.....	J. T. Budd.....	562,801	June 30	3040	734 735	75	2020
Feed-water heater and purifier.....	J. E. Crawley.....	556,336	Mar. 17	1555	364	74	1452
Feed-water heater and purifier.....	R. Lowe.....	558,502	Apr. 21	1753	426	75	365
Feed-water heater and purifier.....	T. T. Parker.....	566,219	Aug. 18	2298	562	76	1086
Feed-water heater and purifier.....	J. C. Sotter.....	561,032	May 26	3084	711	75	1337
Feed-water heater and purifier.....	J. Struben.....	569,362	Oct. 13	1116	266	77	230
Feed-water heater and purifier. Combined.....	J. E. Smith.....	553,694	Jan. 28	2157	510	74	446
Feed-water heater. Internal.....	J. J. Hogan.....	565,986	Aug. 18	1916	465	76	1013
Feed-water heater or condenser.....	L. B. Carriaburu.....	559,674	May 5	547	127	75	786
Feed-water heater regulator.....	J. Perry.....	570,227	Oct. 27	2655	630	77	542
Feed-water heaters. Tube-cleaner for.....	A. H. Blackburn.....	557,545	Apr. 7	24	7	75	7
Feed-water purifier.....	M. S. Cabell.....	560,685	May 26	2490	571	75	1224
Feed-water purifier.....	R. Joy.....	568,536	Sept. 29	3176	764	76	1928
Feed-water purifier and heater.....	J. Bonar and W. L. Rodgers.....	558,147	Apr. 14	1135	277	75	232
Feed-water-purifying apparatus.....	F. E. Kenney.....	552,183	Apr. 14	1195	292	75	243
Feed-water regulator.....	C. B. Bosworth.....	558,598	Apr. 21	1912	465	75	394
Feed-water regulator.....	A. Rothfuss.....	559,497	May 5	256	60	75	731
Feed-water regulator and low-water alarm.....	J. S. Steele.....	570,066	Oct. 27	2368	563	77	486
Feed-water regulator. Automatic.....	J. I. Thornycroft.....	570,351	Oct. 27	2918	692 623	77	589
Feed-water regulator for steam-boilers. Automatic.....	D. and F. D. Almy.....	559,157	Apr. 28	2926	706	75	601
Feed-water regulator for steam-generators. Automatic.....	F. M. Sandillon.....	569,841	Oct. 20	1976	470	77	400
Feed-water regulator, heater, and purifier. Automatic.....	E. Petersen.....	569,935	Oct. 20	2141	507	77	431
Feeder and band-cutter. Combined.....	M. C. Law.....	552,615	Jan. 7	194	54	74	38
Feeder regulator. Bramwell.....	P. Feather and M. J. Clark.....	562,220	June 16	2039	493 494	75	1799
Feeder. Stock.....	J. P. Smith.....	570,569	Nov. 3	257	64	77	686
Feeders. Transferring.....	J. Burke.....	554,239	Feb. 11	794	182	74	666
Feeding and exercising chickens. Apparatus for.....	M. Stewart, Jr.....	564,849	July 28	2811	670	76	585
Feeding apparatus. Automatic.....	C. E. Doster and W. N. Fisher.....	561,500	June 2	778	190	75	1517
Feeding granulated substances. Mechanism for.....	H. E. Smyser.....	570,108	Oct. 27	2441	580	77	501
Feeding steam-boilers. Apparatus for.....	A. F. Yarrow.....	566,644	Aug. 25	3029	741	76	1242
Felt boot.....	T. S. Very.....	554,468	Feb. 11	1195	278	74	742
Felts and wires. Automatic guide for.....	A. H. Smith.....	554,093	Feb. 4	531	119	74	602
Felted headwear.....	E. E. Rowland.....	554,378	Feb. 11	1030	239	74	711
Felly-plate.....	P. R. Stevens.....	565,809	Aug. 11	1569	382	76	927
Fence.....	T. J. Andre.....	562,945	June 30	3330	800	75	2079
Fence.....	W. F. Beals.....	571,331	Nov. 17	1617	384	77	983
Fence.....	J. F. Blecher.....	554,977	Feb. 18	2072	493	74	925
Fence.....	M. Clune and P. Eckel.....	564,591	July 28	2380	560	76	486
Fence.....	J. T. Conover.....	571,150	Nov. 10	1321	308	77	912
Fence.....	A. H. Cook.....	568,744	Oct. 6	52	13	77	13
Fence.....	A. H. Cook.....	569,174	Oct. 13	784	183	77	165
Fence.....	C. F. Darnell.....	569,276	Oct. 13	962	230	77	199
Fence.....	D. L. Ervin.....	558,164	Apr. 14	1161	284	75	237
Fence.....	J. K. Etter.....	554,441	Feb. 11	1148	267	74	734
Fence.....	N. Fryman.....	564,607	July 28	2405	567	76	491
Fence.....	G. G. Gayman.....	555,088	Feb. 25	2296	547	74	980
Fence.....	T. C. Greene.....	569,019	Oct. 6	524	121	77	100
Fence.....	J. M. Gross.....	568,945	Oct. 6	389	88	77	75
Fence.....	J. T. Guthrie.....	557,669	Apr. 7	265	64	75	50
Fence.....	H. Hansbarger.....	554,663	Feb. 18	1569	369	74	830
Fence.....	C. F. Holzwarth.....	553,466	Jan. 21	1756	419	74	357
Fence.....	A. Keeler.....	573,468	Dec. 22	2487	589	77	1803
Fence.....	A. N. Le Flamboy.....	563,042	June 30	3467	898	75	2110
Fence.....	J. T. Lee and U. P. Sawyer.....	571,049	Nov. 10	1125	263	77	877
Fence.....	W. H. Mason.....	571,491	Nov. 17	1880	449	77	1030
Fence.....	J. F. Melvin.....	569,138	Oct. 6	723	170	77	138
Fence.....	D. Messick.....	552,616	Jan. 7	195	54	74	38
Fence.....	J. J. Moore and D. Vaniman.....	557,214	Mar. 31	3095	742	74	1779
Fence.....	V. F. Mount.....	556,832	Mar. 24	2418	568	74	1631
Fence.....	M. Neil.....	566,792	Sept. 1	95	23	76	1298
Fence.....	W. A. Owens.....	560,364	May 19	1873	427	75	1096
Fence.....	C. A. Phelps.....	556,518	Mar. 17	1906	444	74	1519
Fence.....	W. H. Reppeto and J. M. Martin.....	572,719	Dec. 8	1117	270	77	1511
Fence.....	E. Roth.....	557,430	Mar. 31	3481	834	74	1853
Fence.....	J. L. Sarver.....	563,073	Sept. 22	2354	568	76	1759
Fence.....	R. S. Sayre.....	557,027	Mar. 24	2761	655	74	1696
Fence.....	D. C. Smith.....	567,258	Sept. 8	915	219	76	1465
Fence.....	T. N. Tucker.....	571,937	Nov. 24	2687	636	77	1201
Fence.....	J. H. Whisler.....	564,857	July 28	2828	675	76	568
Fence.....	F. H. White.....	562,996	June 30	3417	822	75	2097
Fence.....	O. W. Whitehead.....	552,944	Jan. 14	857	207	74	174
Fence.....	J. L. Woodward.....	561,849	June 9	1416	340	75	1662
Fence.....	J. N. Young.....	563,539	July 7	512	119	76	97
Fence and stretcher. Combined wire.....	W. H. Ringle.....	569,058	Oct. 6	590	135	77	113
Fence clamp. Wire.....	H. L. Frost.....	562,385	June 23	2322	564	75	1867

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Fence-compensator	H. W. Horst	565,751	Aug. 11	1474	360	76	910
Fence crimping tool. Wire	W. H. H. West	566,043	Aug. 18	2003	486	76	1032
Fence-fabric stretcher	P. and J. Sommer	566,031	Aug. 18	1987	{ 481 482	76	1028
Fence. Flood	W. Chandler	567,333	Sept. 8	1073	{ 256 257	76	1493
Fence gate. Wire	D. T. Vanlaningham	558,127	Apr. 14	1104	270	75	226
Fence. Grave	G. W. Schaefer	557,030	Mar. 24	2766	657	74	1697
Fence-guard	S. Crowell	573,571	Dec. 22	2656	631	77	1835
Fence lock. Wire	W. O. Eakright and D. I. Green	564,187	July 21	1690	395	76	343
Fence-machine	E. Allensworth	563,117	June 30	3636	871	75	2138
Fence-machine	J. E. Bieler	557,542	Apr. 7	19	5	75	5
Fence-machine	W. W. and W. Bieler	561,042	May 26	3102	715	75	1341
Fence-machine	H. H. Feldmann	554,338	Feb. 11	967	{ 223 224	74	699
Fence-machine	J. D. Loving	570,938	Nov. 10	943	219	77	843
Fence-machine	J. A. Park	558,514	Apr. 21	1773	{ 430 431 432	75	369
Fence machine. Slat-and-wire	D. Miller	560,734	May 26	2563	590	75	1239
Fence-machine tension device	S. P. Thurman	567,113	Sept. 1	672	157	76	1409
Fence machine. Wire	G. S. and E. Anderson	573,632	Dec. 22	2789	660	77	1863
Fence machine. Wire	A. Brown	563,737	July 14	850	202	76	175
Fence machine. Wire	W. H. Campbell	567,123	Sept. 8	698	162	76	1426
Fence machine. Wire	W. F. Dobbs	569,487	Oct. 13	1311	309	77	264
Fence machine. Wire	Z. R. Kling	553,411	Jan. 21	1668	398	74	340
Fence machine. Wire	G. D. Peugh	574,264	Dec. 29	3975	944	77	2092
Fence machine. Wire	F. A. Williams	560,666	May 26	2457	563	75	1217
Fence machine. Wire-and-picket	F. H. Dumbauld	557,778	Apr. 7	459	108	75	86
Fence machine. Wire-and-picket	J. W. Martin	558,504	Apr. 21	1755	426	75	365
Fence machine. Wire-and-picket	L. W. Mozingo	574,103	Dec. 29	3636	869	77	2032
Fence machine. Wire-and-picket	E. H. Rice	559,985	May 12	1168	260	75	919
Fence-machines. Spreader and twister for	J. and C. Lane	555,453	Feb. 25	2949	701	74	1104
Fence-making machine	W. J. Bowen	562,452	June 23	2432	589	75	1888
Fence-making machine	R. Dial	573,815	Dec. 22	3091	{ 735 736	77	1918
Fence-making tool	T. J. Andre	558,468	Apr. 21	1700	411	75	355
Fence. Metallic	M. O. Hadden	565,616	Aug. 11	1925	296	76	863
Fence. Metallic	R. C., Jr., and W. A. Stewart	533,629	Jan. 28	2042	483	74	426
Fence. Metallic	H. J. Wolcott and F. M. Beaman	562,328	June 16	2218	540	75	1832
Fence or arbor post	R. S. Woolfolk	552,568	Jan. 7	110	31	74	23
Fence. Panel	J. D. Caldwell	561,372	June 2	547	138	75	1475
Fence-picket vise	F. A. Roseman	570,958	Nov. 10	975	227	77	848
Fence-pickets. Machine for wiring	T. B. Ferguson, Jr.	553,188	Jan. 14	1276	{ 308 309	74	253
Fence. Portable	J. Wolf	563,350	July 7	203	46	76	41
Fence. Portable sectional	T. Stillaway	562,046	June 16	1751	423	75	1745
Fence. Portable wire	J. W. Hammett	564,516	July 21	2226	{ 522 523	76	441
Fence-post	D. N. Bay, D. I. Foreacre, and F. S. Dye	565,322	Aug. 4	684	164	76	742
Fence-post	L. M. Brook	570,784	Nov. 3	665	153	77	760
Fence-post	G. W. Clayton	574,191	Dec. 29	3837	915	77	2066
Fence-post	W. S. Crumley and P. A. Muck	566,378	Aug. 25	2584	631	76	1156
Fence-post	E. Diver	559,574	May 5	380	92	75	756
Fence-post	H. L. Ferris	573,508	Dec. 22	2549	604	77	1814
Fence-post	H. L. Frick	554,220	Feb. 4	751	171	74	643
Fence-post	H. and L. C. Grant	567,385	Sept. 8	1168	279	76	1509
Fence-post	G. A. Harman	565,618	Aug. 11	1927	296	76	863
Fence-post	C. Kutzner	557,834	Apr. 7	555	133	75	104
Fence-post	H. Mater	573,097	Dec. 15	1779	427	77	1656
Fence-post	L. Middleton	554,391	Feb. 11	1050	244	74	715
Fence-post	O. H. Orendorff	562,909	June 30	3249	784	75	2060
Fence-post	J. R. Potts and H. M. Bare	555,617	Mar. 3	921	52	74	1171
Fence-post	R. B. Robbins	557,286	Mar. 31	3230	775	74	1803
Fence-post	J. A. and J. C. Routzong	572,831	Dec. 8	1312	314	77	1547
Fence-post	W. J. Sleep	557,443	Mar. 31	3496	836	74	1855
Fence-post	S. Smith and H. M. Henry	567,010	Sept. 1	489	113	76	1374
Fence-post	C. H. Van Wagoner	562,207	June 16	2021	488	75	1795
Fence-post	O. W. Whitehead	567,557	Sept. 8	1434	345	76	1558
Fence-post	E. W. Wood	573,748	Dec. 22	2990	708	77	1899
Fence-post anchorage	G. W. Bond	552,885	Jan. 14	733	178	74	151
Fence-post. End	G. A. Harlow	562,466	June 23	2455	596	75	1892
Fence-posts, &c. Machine for driving	G. W. Crumly	564,505	July 21	2206	{ 517 518	76	437
Fence-post. Metallic	A. Davison	561,207	June 2	237	56	75	1413
Fence-post. Metallic	J. F. Rhodes	562,976	June 30	3385	814	75	2090
Fence-post or columnar pillar	P. D. Fry and W. H. Johnson	573,777	Dec. 22	3030	718	77	1807
Fence-runners. Fastening device for	P. H. Logan	569,648	Oct. 20	1631	385	77	339
Fence spacing device. Wire	H. W. Alvey	551,642	June 9	1035	249	75	1591
Fence-stay	E. A. Prantz	571,355	Nov. 17	1656	392	77	990
Fence-stay	J. S. Martin	564,439	July 21	2109	493	76	419
Fence-stay	E. Munger	564,570	July 21	2333	547	76	459
Fence-stay	C. Ohmart	571,683	Nov. 17	2205	531	77	1090
Fence-stay	A. F. Reiste	554,005	Feb. 4	369	81	74	573
Fence-stay	O. Whitehead	554,560	Feb. 11	1335	313	74	769
Fence-stay machine	J. A. Mitchell	561,122	June 2	76	20	75	1382
Fence stay. Wire	W. H. Boggs	561,534	June 2	850	204	75	1530
Fence stay. Wire	S. C. Davis	561,158	June 2	147	38	75	1394
Fence stay. Wire	H. D. Miller and H. D. Tilman	557,593	Apr. 7	115	29	75	23
Fence stay. Wire	J. S. Moyer	566,601	Aug. 25	2975	726	76	1230
Fence stay. Wire	J. E. Turner	558,534	Apr. 21	1807	438	75	375
Fence stay. Wire	L. J. Woolsey	559,248	Apr. 28	3105	749	75	635
Fence stay. Wire	L. J. Woolsey	561,850	June 9	1417	340	75	1662

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Fence stay. Wire.	B. Zuck	570,531	Nov. 3	173	46	77	669
Fence straining-post. Wire.	M. Neil	566,408	Aug. 25	2643	645	76	1168
Fence-stretcher.	G. H. Shellabarger	571,405	Nov. 17	1732	412	77	1004
Fence stretcher. Wire.	C. H. Zimmerman	553,380	Jan. 21	1619	386	74	331
Fence support. Wire.	M. Neil	562,088	June 16	1830	445	75	1758
Fence tension device. Wire.	D. W. Albert	560,562	May 19	2213	506	75	1156
Fence tension device. Wire.	H. C. Pratt	571,930	Nov. 24	2672	633	77	1197
Fence-tie.	W. R. Parker	557,870	Apr. 7	612	146	75	116
Fence-tightener.	H. V. Conway	563,137	June 30	3670	878	75	2144
Fence tightener. Wire.	T. M. Kerns	567,142	Sept. 8	729	170	76	1432
Fence tool. Wire.	R. G. Kennedy	567,477	Sept. 8	1313	317	76	1537
Fence tool. Wire.	L. W. Orton	572,272	Dec. 1	319	76	77	1340
Fence tool. Wire.	J. H. Quigley	572,826	Dec. 8	1304	312	77	1546
Fence tool. Wire.	C. M. Tinsman and S. S. Ball	566,249	Aug. 18	2338	573	76	1095
Fence. Wire.	E. A. and H. F. Barker	561,555	June 9	887	213	75	1563
Fence. Wire.	A. J. Bates	561,194	June 2	218	52	75	1409
Fence. Wire.	J. A. Brackbill	561,757	June 9	1252	298	75	1632
Fence. Wire.	J. Combs	557,490	Mar. 31	3582	858	74	1872
Fence. Wire.	W. Conrad	569,275	Oct. 13	960	230	77	199
Fence. Wire.	W. Crabb	554,774	Feb. 18	1722	404	74	859
Fence. Wire.	J. F. Hager	565,744	Aug. 11	1462	357	76	907
Fence. Wire.	J. Haish	570,752	Nov. 3	616	142	77	751
Fence. Wire.	B. H. Haley	570,090	Oct. 27	2419	573	77	497
Fence. Wire.	M. Hays	560,583	May 19	2250	516	75	1164
Fence. Wire.	I. K. Hollinger	559,849	May 12	909	202	75	867
Fence. Wire.	J. E. Jones	558,960	Apr. 28	2540	615	75	524
Fence. Wire.	R. G. Kennedy	567,478	Sept. 8	1316	317	76	1537
Fence. Wire.	C. Lane	562,308	June 16	2186	531	75	1826
Fence. Wire.	G. Lebbberger	557,684	Apr. 7	287	69	75	54
Fence. Wire.	J. S. Maher	555,823	Mar. 3	557	133	74	1232
Fence. Wire.	J. McKee	562,413	June 23	2357	576	75	1874
Fence. Wire.	J. McKee	565,916	Aug. 18	1778	434	76	986
Fence. Wire.	D. H. McPherson	570,290	Oct. 27	2771	659	77	563
Fence. Wire.	D. H. McPherson	573,831	Dec. 22	3135	747	77	1926
Fence. Wire.	S. A. Nielson	570,646	Nov. 3	421	99	77	716
Fence. Wire.	R. Phillis	557,017	Mar. 24	2747	651	74	1693
Fence. Wire.	W. P. Randall	562,322	June 16	2209	537	75	1830
Fence. Wire.	L. M. Runyon	570,567	Nov. 3	254	63	77	685
Fence. Wire.	A. H. Russell	566,474	Aug. 25	2794	679	76	1195
Fence. Wire.	H. P. Sandoe	563,509	July 7	467	110	76	89
Fence. Wire.	C. D. Shellabarger	555,666	Mar. 3	320	74	74	1187
Fence. Wire.	E. F. Shellabarger	572,317	Dec. 1	414	98	77	1358
Fence. Wire.	M. C. Terry	562,558	June 23	2605	632	75	1918
Fence. Wire.	A. J. Upham	555,193	Feb. 25	2479	566	74	1016
Fence. Wire.	I. M. Warner	572,322	Dec. 1	422	100	77	1359
Fence. Wire.	L. Wyssinger	569,906	Oct. 20	2083	495	77	420
Fence. Wire-and-picket.	F. A. Weight	552,558	Jan. 7	98	26	74	20
Fence-wire. Apparatus for handling.	J. B. Crowder	555,849	Mar. 3	603	143 144	74	1241
Fence-wire clamp	E. E. Dehler	552,827	Jan. 7	618	150	74	116
Fence-wire coiler	W. U. and E. S. Wadsworth	554,749	Feb. 18	1672	394	74	849
Fence-wire-crimping device	W. H. H. West	568,931	Oct. 6	360	83	77	69
Fence-wire reel and straightener. Combined.	G. H. Miller	562,476	June 23	2469	599	75	1894
Fence-wire stay	E. J. Litt	561,407	June 2	609	152	75	1486
Fence-wire stay	F. M. Norris	560,526	May 19	2148	491	75	1146
Fence-wire stay	A. J. Sloan	559,226	Apr. 28	3069	741	75	628
Fence-wire stretcher.	W. W. Norman	557,418	Mar. 31	3461	830	74	1849
Fence-wire stretcher.	H. Robinson	552,779	Jan. 7	518	126	74	97
Fence-wire tightener.	M. Berdan	553,096	Jan. 14	1116	270	74	224
Fence-wire-winding device.	C. Heitsch	567,713	Sept. 15	1706	409	76	1626
Fence-wiring machine	W. A. Dillon	567,585	Sept. 15	1498	359	76	1536
Fence-wiring tool.	J. B. Cleaveland	562,170	June 16	1959	475	75	1783
Fence. Woven-wire.	I. L. Ellwood	566,567	Aug. 25	2926	714	76	1291
Fences. Device for attaching stay-wires to wire	W. J. Jacobs	555,914	Mar. 3	728	176	74	1265
Fences. Device for twisting stay-wires in.	C. A. Burnham	568,660	Sept. 29	3416	817	76	1974
Fences. Ground-base for iron.	H. Burster	567,332	Sept. 8	1072	256	76	1493
Fences. Machine for weaving cross-wires in wire.	H. Carter	561,965	June 16	1608	391	75	1719
Fences. Spring-clamp for securing braces to wire.	G. G. Bennett and J. H. Mowers	562,947	June 30	3331	801	75	2079
Fencing. Apparatus for manufacturing wire	P. Mast	566,332	Aug. 25	2485	609	76	1138
Fencing. Loom for weaving wire	W. N. Parrish	562,094	June 16	1839	447	75	1760
Fencing. Machine for making wire	W. Edenborn	558,787	Apr. 21	2239	541	75	453
Fencing. Machine for making wire	W. Edenborn	565,320	Aug. 4	776	185	76	761
Fencing. Stay for wire	G. C. Bovey	567,960	Sept. 22	2131	513	76	1721
Fencing. Wire	M. T. Deck	565,966	Aug. 18	1880	457	76	1006
Fencing. Wire strip for	M. M. Shellabarger	564,541	July 21	2267	532	76	1448
Fencing. Woven-wire.	A. J. Bates	561,193	June 2	216	52	75	1409
Fender.							
See Car-fender.	Rocker-fender.						
Car safety-fender.	Wheel-fender.						
Flow-fender.							
Fender and automatic brake mechanism	R. Marquart	563,498	July 7	444	103	76	85
Fender and brake mechanism. Combined	A. L. Kraus	574,097	Dec. 29	3629	867	77	2030
Fertilizer-distributor	J. E. Bering	564,181	July 21	1680	393	76	341
Fertilizer-distributor	F. J. Blake	560,131	May 12	1445	325	75	970
Fertilizer-distributor	E. S. Keeler	553,246	Jan. 21	1374	336	74	287
Fertilizer-distributor	E. D. Mead	570,490	Nov. 3	100	24	77	657
Fertilizer-distributor.	M. Morse	557,010	Mar. 24	2736	648 649	74	1691
Fertilizer-distributor.	C. E. Patric	564,391	July 21	2030	476	76	405
Fertilizer-distributor.	J. B. Roach	566,472	Aug. 25	2789	678	76	1194
Fertilizer-distributor and seed-planter	F. Bateman	555,421	Feb. 25	2878	834	74	1091
Fertilizer-distributor for tobacco-planting	J. F. Firth	560,850	May 26	2780	637	75	1280
Fertilizers. Apparatus for making	H. F. Courtney and F. Schwartz	572,965	Dec. 15	1552	372	77	1612
Fertilizers. Apparatus for making	P. Hogan	572,258	Dec. 1	289	70	77	1334

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fertilizers. Apparatus for reducing garbage for	F. G. Wiselogel	554,206	Feb. 4	733	{ 166 167 }	74	639
Fertilizers. Distributing	C. H. Lyon	563,195	June 30	3770	902	75	2164
Fertilizers. Means for distributing	H. H. Gridley	563,921	July 14	1200	282	76	239
Fiber. Apparatus for treating vegetable	M. W. Summersgill	556,590	Mar. 17	2014	{ 470 471 }	74	1538
Fiber-cleaning machine	S. B. Allison	568,225	Sept. 22	2626	631	76	1812
Fiber. Composition for treating	C. Efros	557,568	Apr. 7	75	75	16	
Fiber. Composition for treating	C. Efros	562,219	June 16	2038	75	1799	
Fiber from fiber-bearing plants. Machine for ex- tracting	T. C. Barraclough and T. T. Heaton	568,327	Sept. 29	2795	{ 672 673 }	76	1860
Fiber. Machine for preparing vegetable	T. Villamor	559,009	Apr. 28	2620	{ 638 639 }	75	543
Fiber-preparing machine	D. E. Radclyffe and T. Burrows	571,173	Nov. 10	1349	315	77	918
Fiber separating and cleaning machine	S. B. Allison	568,224	Sept. 22	2623	631	76	1812
Fiber-separating machine	S. B. Allison	561,532	June 2	846	204	75	1529
Fiber-separating machine	S. B. Allison	568,309	Sept. 22	2762	{ 664 665 }	76	1839
Fiber-ware. Apparatus for making hollow	H. Carmichael	568,519	Sept. 29	3146	{ 758 759 }	76	1923
Fiber-ware. Manufacturing	H. Carmichael	568,518	Sept. 29	3144	639	76	1922
Fibers. Digester for cleaning vegetable and animal	J. F. Lester	556,683	Mar. 17	2151	502	74	1564
Fibers. Electrolytic separation of vegetable	B. S. Summers and C. O. Boring	555,706	Aug. 11	1386	337	76	894
Fibers. Machine for extracting and cleaning vege- table	S. Stanbridge	556,032	Mar. 10	960	{ 230 231 }	74	1328
Fibers. Process of and apparatus for bleaching vege- table	C. Kellner	560,411	May 19	1958	{ 447 448 }	75	1111
Fibers. Separating mixed	G. M., 2d, and A. L. Rice	558,111	Apr. 14	1079	75	221	
Fibrous harness. Utilizing partially-worn	J. Robinson	570,683	Nov. 3	493	115	77	730
Field-glass	E. Toussaint	569,528	Oct. 13	1393	{ 328 329 }	77	279
Field-motor. Rotary	C. S. Bradley	557,957	Apr. 7	768	183	75	144
Field or garden implement	P. C. Dillan	559,369	May 5	32	8	75	687
Fifth-wheel	T. J. Herring	554,268	Feb. 11	846	194	74	676
Fifth-wheel	E. M. Murphy	558,294	Apr. 14	1383	337	75	279
Fifth-wheel	S. K. Paden	566,615	Aug. 25	2992	730	76	1234
Fifth-wheel	J. Parent	554,533	Feb. 11	1297	305	74	761
Fifth-wheel	T. G. Read	554,375	Feb. 11	1025	238	74	710
Fifth-wheel	E. B. Smith	560,442	May 19	2021	462	75	1123
Fifth-wheel	D. Wilcox	570,194	Oct. 27	2594	{ 616 617 }	77	530
Fifth-wheel. Vehicle	T. Nesom	554,345	Feb. 11	979	227	74	701
Fifth-wheel. Vehicle	E. B. Smith	553,693	Jan. 23	2154	510	74	445
Fifth-wheel. Vehicle	F. L. Thomas	573,722	Dec. 22	2949	697	77	1891
Filaments. Building up carbon	F. S. Smith	563,329	July 7	172	76	35	
File	I. N. Adrian	556,296	Mar. 10	1485	345	74	1424
File	R. Bennett	554,574	Feb. 11	1358	318	74	774
File. Bill	N. S. Baldwin and E. S. Goodwin	557,754	Apr. 7	422	99	75	80
File. Bill	J. M. Butcher	564,172	July 14	1662	388	76	325
File. Bill	W. R. Collins	565,871	Aug. 11	1691	414	76	952
File. Bill	J. C. Shaw	562,667	June 23	2795	679	75	1956
File. Bill	F. C. Wallace	562,444	June 23	2422	587	75	1866
File. Bill	E. W. Woodruff	569,700	Oct. 20	1727	{ 411 412 }	77	356
File. Bill and account	P. A. McCaskey	560,523	May 19	2143	490	75	1145
File. Book	F. G. Bradbury and N. Nilson	572,741	Dec. 8	1162	279	77	1518
File-box	W. E. Crane	562,950	June 30	3335	802	75	2080
File-box	W. Lumley	573,020	Dec. 15	1635	393	77	1622
File-box or document-case	A. C. Barler	567,633	Sept. 15	1574	379	76	1600
File-case and file	H. N. Booz	562,370	June 23	2298	{ 558 559 }	75	1862
File-case. Document	G. C. Ward	568,646	Sept. 29	3387	811	76	1968
File case or cabinet	W. J. Boniface	562,352	June 16	2270	{ 550 551 }	75	1841
File case or cabinet. Revolving	B. Micou	572,904	Dec. 8	1417	341	77	1570
File. Document	H. W. Andrews	564,404	July 21	2050	{ 480 481 }	76	409
File. Document	H. S. Leland	555,960	Mar. 10	825	196	74	1304
File. Druggist's prescription	C. L. Graf	570,308	Oct. 27	2853	677	77	578
File for holding sales-slips	W. F. Grady and R. S. Robson	563,956	July 14	1270	297	76	251
File for letters, &c	F. Müller	558,657	Apr. 21	2011	486	75	412
File for newspapers, bills, letters, &c	B. McGinty	555,289	Feb. 25	2653	621	74	1049
File. Letter	W. A. Cooke, Jr.	565,961	Aug. 18	1857	{ 451 452 }	76	1001
File. Letter	A. Krah	566,717	Aug. 25	3159	773	76	1263
File. Letter	E. P. Peacock	565,864	Aug. 11	1679	411	76	949
File. Letter	H. S. Sternberger	557,623	Apr. 7	163	42	75	32
File. Letter or bill	W. R. Burrage	566,375	Aug. 25	2579	630	76	1155
File. Letter or bill	W. O. Gottwals and F. L. Ellis	554,261	Feb. 11	832	190	74	674
File. Nail	B. W. Jacobs	569,285	Oct. 13	978	235	77	202
File or paper-clip. Letter	N. H. Voss	555,229	Feb. 25	2534	597	74	1026
File. Paper	W. Beller	554,903	Feb. 18	1950	459	74	902
File. Paper	C. M. Carnahan	573,569	Dec. 22	2654	630	77	1894
File. Paper	S. A. Douglass	554,362	Feb. 11	1006	233	74	706
File. Paper	B. McGregor and H. Eichler	552,966	Jan. 14	890	216	74	180
File. Paper	E. A. Sharp	554,500	Feb. 11	1246	291	74	751
File. Paper	A. B. Skinner	572,619	Dec. 8	935	227	77	1476
File. Paper	A. J. Thompson	564,580	July 21	2353	553	76	463
File. Paper	C. H. Van Alstine	566,821	Sept. 1	135	33	76	1307
File. Prescription	W. H. Stoffregen	563,517	July 7	477	112	76	91
File-rack	P. J. Pauly, Sr., and J. C. McQuil- kin	570,679	Nov. 3	486	114	77	729
File rack. Newspaper	C. W. Mooers	560,005	May 12	1203	267	75	924
File. Round	A. Weed	570,579	Nov. 3	272	67	77	688

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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File-wrapper for holding bills, papers, &c.	J. S. Dearborn	562,284	June 16	2145	522	75	1818
Filing and keeping documents. Means for	S. Brentnall	561,254	June 2	299	75, 76	75	1426
Filing letters. Means for	A. Huttenbach	553,678	Jan. 28	2131	504 505	74	441
Filing receptacle and index	G. H. Richter	562,422	June 23	2374	578	75	1877
Filling and bunging apparatus.	M. Warren	554,806	Feb. 18	1767	415 416	74	868
Filling into receptacles measured quantities of liquids, &c. Machine for	J. Robertson and H. Cooper	559,540	May 5	328	78	75	746
Film-loader for roll-holders	W. V. Esmond	556,407	Mar. 17	1683	392	74	1476
Filter	L. J. and A. L. Barthelemy	563,639	July 7	674	158	76	127
Filter	J. A. Bowden	559,096	Apr. 28	2777	673 674	75	574
Filter	J. A. Bowden	564,776	July 28	2692	640 641	76	543
Filter	J. M. Davidson	570,910	Nov. 10	893	208	77	833
Filter	J. Davis	558,485	Apr. 21	1729	417	75	360
Filter	J. Davis	564,305	July 21	1878	442	76	377
Filter	J. Davis	572,196	Dec. 1	176	43	77	1312
Filter	E. J. Durant	560,261	May 19	1696	386	75	1066
Filter	J. W. Fleetwood	566,391	Aug. 25	2612	638	76	1161
Filter	W. M. Fowler	565,890	Aug. 18	1719	421	76	973
Filter	A. Grandjean, née Unold	571,474	Nov. 17	1851	441	77	1026
Filter	C. E. Ince	555,773	Mar. 3	474	114	74	1216
Filter	E. M. Knight	557,399	Mar. 31	3420	821	74	1841
Filter	E. M. Knight	569,382	Oct. 13	1146	273	77	235
Filter	C. A. Künzel, Jr.	561,673	June 9	1084	261	75	1600
Filter	C. K. Lamb	561,675	June 9	1087	261 262	75	1600
Filter	G. Langer	557,075	Mar. 24	2828	674	74	1710
Filter	A. H. Lea and J. F. Foulke	553,994	Feb. 4	351	77, 78	74	569
Filter	O. E. Meyer	563,392	July 7	264	59	76	53
Filter	J. S. Miles	559,590	May 5	405	98	75	762
Filter	C. E. and J. M. Osgood	574,161	Dec. 29	3743	894	77	2050
Filter	J. Oster, Jr.	568,787	Oct. 6	132	32	77	27
Filter	W. Raiton and R. Campbell	555,020	Feb. 18	2159	514 515	74	939
Filter	J. M. Robinson	554,312	Feb. 11	924	212	74	691
Filter	G. Rooke	556,438	Mar. 17	1752	407	74	1490
Filter	G. H. Sellers	564,943	July 28	2981	709 710	76	596
Filter	J. T. B. Selman	569,065	Oct. 6	601	137	77	115
Filter	S. Starkey	566,631	Aug. 25	3013	737	76	1238
Filter	G. Stites	572,136	Dec. 1	78	17	77	1293
Filter	G. W. Upton	558,328	Apr. 14	1439	354	75	290
Filter	J. M. Wells	563,523	July 7	488	115	76	93
Filter	E. A. Wilder	557,177	Mar. 31	3009	718 719	74	1767
Filter	A. H. Wright	559,249	Apr. 28	3106	749 750	75	635
Filter	J. F. Ziegler	565,250	Aug. 4	583	136 137	76	722
Filter and cleaner	W. B. Lindsay, W. E. Tonner, and A. Lowmiller	555,104	Feb. 25	2327	553	74	988
Filter and cleaner	W. B. Lindsay, W. E. Tonner, and A. Lowmiller	565,760	Aug. 11	1490	364	76	913
Filter and connection with faucet or water-supply	H. Vellenoweth	553,273	Jan. 21	1427	346	74	296
Filter. Asbestos	F. Breyer	571,744	Nov. 24	2333	558	77	1133
Filter. Centrifugal	J. B. Waring and H. R. Cassel	568,821	Oct. 6	184	44	77	37
Filter. Feed-water	A. Harris	556,008	Mar. 10	916	218 219	74	1320
Filter for gasoline, &c.	L. Konst	563,041	June 30	3486	838	75	2116
Filter. Liquid	T. Linke	554,280	Feb. 11	868	200	74	680
Filter. Liquid	T. Linke and H. E. Gould	554,279	Feb. 11	867	200	74	680
Filter. Multiple	W. M. Fowler	565,972	Aug. 18	1897	461	76	1009
Filter. Oil	F. Bain	569,159	Oct. 13	764	177	77	162
Filter. Oil	R. Conrad	559,440	May 5	166	36	75	713
Filter. Oil	E. A. Field	554,815	Feb. 18	1793	421	74	874
Filter. Oil	A. T. Morrow	572,814	Dec. 8	1284	309	77	1541
Filter or oil-extractor	H. A. Collins	573,766	Dec. 22	3014	714	77	1904
Filter-press	M. Dehne and C. Harzer	564,422	July 21	2083	487	76	415
Filter-press	H. Farmer	560,295	May 19	1754	399 400	75	1075
Filter-press	B. Remmers	564,715	July 28	2573	610	76	523
Filter-press and filter-press plate	E. Hübner	571,368	Nov. 17	1677	397	77	994
Filter. Rain-water	N. H. Long	571,776	Nov. 24	2391	571	77	1144
Filter-screen	A. L. and L. J. Barthelemy	558,341	Apr. 14	1460	359	75	294
Filter-screen	O. H. Jewell	572,606	Dec. 8	912	221	77	1470
Filter. Self-cleaning liquid	T. Linke	560,511	May 19	2125	486	75	1141
Filter-strainer	O. H. Jewell	572,605	Dec. 8	911	220 221	77	1470
Filter. Water	T. H. Boyer	554,858	Feb. 18	1871	441	74	888
Filter. Water	F. W. Edgington	555,685	Mar. 3	344	79	74	1191
Filter. Water	W. B. Farwell	556,725	Mar. 17	2225	519	74	1581
Filter. Water	Z. Fenne	557,370	Mar. 31	3373	810	74	1832
Filter. Water	J. A. and E. W. Hasenpflug	573,409	Dec. 15	2334	557	77	1757
Filter. Water	C. C. Moore	565,416	Aug. 4	840	198	76	777
Filter. Water	J. H. Pierce	562,151	June 16	1926	468	75	1777
Filter. Water	J. Retter	564,954	Feb. 18	2031	480	74	917
Filters. Cleansing	W. M. Deutsch	553,641	Jan. 28	2072	488	74	430
Filtering and clarifying liquids. Apparatus for	A. C. Newcomb	571,312	Nov. 10	1584	376	77	963
Filtering apparatus	K. S. Blanchard	572,672	Dec. 8	1021	247	77	1493
Filtering apparatus	R. W. Jacob, Jr.	555,098	Feb. 25	2315	550	74	985
Filtering apparatus	H. Roeske	553,763	Jan. 28	2278	539	74	469

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Filtering apparatus and process. Oil.....	R. Conrader.....	559,439	May 5	163	35	75	713
Filtering cane-juice. Apparatus for.....	J. W. Fleetwood.....	555,855	Mar. 3	615	147	74	1243
Filtering device. Liquid.....	J. Lamson, Jr.....	555,821	Mar. 3	556	133	74	1231
Filtering material for purifying alcohols, oils, &c.....	N. Iseli.....	556,578	Mar. 17	1997		74	1535
Filtering material or fabric.....	L. B. Fiechter.....	570,219	Oct. 27	2641	625	77	539
Filtering means for sewage-water.....	F. L. Union.....	556,594	Mar. 17	2020	472	74	1539
Filtering process and apparatus.....	B. S. Church.....	560,777	May 26	2648	608	75	1254
Filtration of liquids. Method of and means for effect- ing.....	W. J. and C. J. Lomax.....	560,512	May 19	2126	486 487	75	1142
Financial problems. Device for demonstrating.....	O. Ellison.....	571,613	Nov. 17	2092	502	77	1068
Finger-guard.....	E. W. Potter.....	569,936	Oct. 20	2144	508	77	432
Finger-nail clipper.....	J. D. C. Wenger.....	569,903	Oct. 20	2079	495	77	419
Finishing-machine.....	G. H. Derby.....	559,166	Apr. 28	2942	710 711	75	604
Finishing-roll.....	W. Evans.....	572,532	Dec. 8	776	185	77	1441
Fire-alarm.....	J. R. McCoy.....	563,203	June 30	3787	908	75	2167
Fire-alarm.....	J. A. McGahy.....	573,903	Dec. 29	2262	779	77	1964
Fire-alarm.....	A. H. West.....	573,944	Dec. 29	3334	796	77	1977
Fire-alarm. Automatic.....	J. W. Frost.....	563,474	July 7	400	94, 95	76	77
Fire-alarm. Automatic electric.....	C. D. Tisdale.....	565,188	Aug. 4	447	107	76	699
Fire-alarm circuit.....	L. G. Rowand.....	568,495	Sept. 29	3085	743	76	1913
Fire-alarm circuit and signal box. Electric.....	L. G. Rowand.....	568,494	Sept. 29	3079	742 743 740	76	1912
Fire-alarm circuits. Automatically testing.....	L. G. Rowand.....	568,493	Sept. 29	3073	741 742	76	1910
Fire-alarm. Pneumatic.....	A. Goldstein.....	562,130	June 16	1893	459	75	1771
Fire-alarm signal-box.....	G. F. Milliken.....	565,086	Aug. 4	231	57	76	659
Fire-alarm signal-box.....	G. F. Milliken.....	571,950	Nov. 24	2705	640	77	1205
Fire-alarm signal-box.....	J. J. Ruddick.....	562,034	June 16	1724	419	75	1741
Fire-alarm system.....	A. C. Rogers.....	573,924	Dec. 29	3296	788 789	77	1970
Fire-alarm system. Automatic.....	E. A. Speer.....	564,229	July 21	1748	409	76	354
Fire-alarm system. Automatic.....	J. Young.....	563,832	July 14	1015	241 242	76	206
Fire-alarm system. Electrical.....	J. D. Gould.....	565,410	Aug. 4	828	196	76	770
Fire-alarm system. Electrical.....	C. D. Tisdale.....	565,053	Aug. 4	151	36	76	646
Fire-alarm systems. Electric cable for.....	H. A. Reed.....	565,178	Aug. 4	429	103	76	696
Fire-alarm-telegraph system.....	J. F. Mehren.....	554,889	Feb. 18	1925	453	74	897
Fire-alarm. Thermostat-actuated.....	P. C. Howe.....	570,892	Nov. 3	866	201	77	802
Fire-alarm. Thermostatic.....	H. Baer.....	569,851	Oct. 20	1996	476	77	404
Fire-alarms. Cable for electric.....	H. A. Reed.....	565,217	Aug. 4	495	118	76	709
Fire and burglar alarm.....	R. L. Levin.....	555,173	Feb. 25	2439	578	74	1009
Fire and burglar alarm.....	B. J. Lowman.....	570,258	Oct. 27	2715	646	77	553
Fire and burglar alarm.....	J. T. Peet.....	563,881	July 14	1127	264	76	226
Firearm.....	T. G. Bennett.....	564,421	July 21	2031	487	76	414
Firearm. Automatic magazine.....	A. Burgess.....	557,359	Mar. 31	3352	805 806	74	1828
Firearm. Breech-loading.....	B. H. Clement.....	572,290	Dec. 1	359	85	77	1347
Firearm. Breech-loading.....	M. V. Dengo.....	562,286	June 16	2147	522 523	75	1818
Firearm. Breech-loading.....	A. Sill.....	569,244	Oct. 13	913	218	77	190
Firearm discharging mechanism.....	W. A. Richardson.....	552,699	Jan. 7	349	92	74	68
Firearm fore-stock.....	T. G. Bennett.....	557,947	Apr. 7	753	180	75	142
Firearm. Gas-operated.....	L. Schmeisser.....	561,617	June 9	993	238	75	1583
Firearm. Magazine.....	J. M. Browning.....	552,864	Jan. 7	677	165 166	74	128
Firearm. Magazine.....	A. Burgess.....	557,358	Mar. 31	3349	804 805	74	1828
Firearm. Magazine.....	A. Burgess.....	557,360	Mar. 31	3356	806 807	74	1829
Firearm. Magazine.....	R. Dinsmore.....	560,348	May 19	1847	421 422	75	1091
Firearm. Magazine.....	L. L. Hepburn.....	560,032	May 12	1257	282 283	75	933
Firearm. Magazine.....	L. L. Hepburn.....	561,226	June 2	262	65, 66	75	1418
Firearm. Magazine.....	J. L. McCullough.....	557,863	Apr. 7	599	143	75	113
Firearm. Magazine.....	J. W. Mullins.....	571,840	Nov. 24	2503	593	77	1165
Firearm. Recoil-operated.....	H. Carr.....	574,189	Dec. 29	3821	912 913	77	2063
Firearm. Recoil-operated.....	R. M. Catlin.....	574,350	Dec. 29	4114	977 978	77	2118
Firearm-sight.....	W. Lyman.....	558,402	Apr. 14	1563	381	75	311
Firearm-sight.....	W. Lyman.....	558,403	Apr. 14	1564	381	75	312
Firearm-sight.....	J. B. Taylor.....	561,360	June 2	527	133	75	1471
Firearm-sight.....	C. G. Thunen.....	573,725	Dec. 22	2953	698	77	1891
Firearm-stock. Adjustable.....	H. M. Quackenbush.....	562,487	June 23	2483	602	75	1897
Firearms. Ejector mechanism for breakdown.....	G. A. Horne.....	568,760	Oct. 6	86	20	77	19
Firearms. Extractor for breech-loading.....	H. W. Bradley.....	572,102	Dec. 1	13	3	77	1280
Firearms. Safety locking device for magazine.....	T. G. Bennett.....	564,420	July 21	2079	487	76	414
Firearms. Safety-stop for operating-bars of breech- loading.....	W. Mason.....	564,441	July 21	2112	494	76	419
Fire-bar support and deflector.....	J. King, C. Downes, and J. Wad- dington.....	569,646	Oct. 20	1628	384 385	77	339
Fire-bucket.....	W. R. Myers.....	558,295	Apr. 14	1384	338	75	279
Fire-cracker holder.....	L. Rumage.....	566,802	Sept. 1	113	27	76	1302
Fire-dog.....	H. J. Lewis.....	567,786	Sept. 15	1826	438	76	1650
Fire-door opening for water fire-boxes.....	J. Roney.....	553,076	Jan. 14	1075	262	74	215
Fire-engine. Hand.....	H. C. Atkinson and W. Miller.....	572,096	Dec. 1	4	1, 2	77	1279
Fire-engine pump. Steam.....	C. H. Fox.....	569,966	Oct. 20	2192	520 521	77	440
Fire-engine-station door.....	W. Paterson.....	558,416	Apr. 14	1589	388	75	316
Fire-engine. Steam.....	J. B. Tarr.....	563,379	Sept. 29	2886	694	76	1877

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Fire-engines. Automatic lighter for.....	F. J. Hall and J. H. Espey.....	559,704	May 5	594	141	75	795
Fire-escape.....	J. Berez.....	570,151	Oct. 27	9519	597	77	515
Fire-escape.....	W. Bourdon.....	553,183	Jan. 14	1268	307	74	252
Fire-escape.....	W. H. Campbell.....	553,299	Jan. 21	1481	356	74	306
Fire-escape.....	W. Carey.....	569,810	Oct. 20	1928	458	77	391
Fire-escape.....	M. Church.....	557,971	Apr. 7	794	189 } 190 }	75	150
Fire-escape.....	G. W. Cleveland.....	556,961	Mar. 24	2631	618	74	1670
Fire-escape.....	J. S. Crawford.....	570,908	Nov. 10	891	207	77	833
Fire-escape.....	J. A. Dobkins.....	560,086	May 12	1359	305	75	952
Fire-escape.....	J. Evans.....	554,587	Feb. 11	1389	327	74	720
Fire-escape.....	M. R. Fitzhugh.....	567,642	Sept. 15	1593	383	76	1604
Fire-escape.....	C. M. Fowler.....	553,190	Jan. 14	1281	310	74	254
Fire-escape.....	R. I. Herrmann.....	560,713	May 26	2532	582	75	1233
Fire-escape.....	H. Hoffmann.....	565,458	Aug. 11	916	218	76	806
Fire-escape.....	R. Howell.....	554,515	Feb. 11	1269	297	74	756
Fire-escape.....	I. Knapke.....	552,531	Jan. 7	47	15	74	12
Fire-escape.....	J. H. McEntire.....	561,425	June 2	652	160	75	1493
Fire-escape.....	J. F. Percival and A. E. Astley.....	559,204	Apr. 28	3008	727	75	618
Fire-escape.....	G. W. Root.....	556,165	Mar. 10	1217	284	74	1374
Fire-escape.....	E. O. Sjolander.....	572,576	Dec. 8	857	206	77	1460
Fire-escape and extinguisher.....	J. Clabron.....	560,474	May 19	2074	472	75	1131
Fire-escape ladder.....	J. F. Chazotte.....	572,244	Dec. 1	261	63	77	1328
Fire-escape ladder.....	P. Ries.....	568,000	Sept. 22	2213	534	76	1735
Fire-escape. Portable.....	E. Riley.....	567,553	Sept. 8	1428	343	76	1558
Fire-escape. Portable.....	F. T. Stacy.....	561,733	June 9	1206	286	75	1623
Fire-escape. Portable.....	R. J. G. Montardon.....	554,709	Feb. 18	1608	379	74	837
Fire-escape safety-brake.....	J. W. Hentz.....	554,025	Feb. 4	411	90	74	520
Fire-escapes. Grip for portable.....	G. L. Kingsbury.....	556,099	Mar. 10	1090	260	74	1351
Fire-extinguisher.....	I. Brashears.....	562,568	June 23	2636	638 } 639 }	75	1926
Fire-extinguisher.....	H. Bush.....	574,019	Dec. 29	3484	832	77	2003
Fire-extinguisher.....	G. W. Cofran and W. J. Murray.....	556,305	Mar. 10	1499	348	74	1426
Fire-extinguisher.....	W. Esty.....	558,901	Apr. 21	2429	591	75	490
Fire-extinguisher.....	D. Farrell, Jr.....	564,010	July 14	1357	316	76	268
Fire-extinguisher.....	T. F. Handy.....	564,615	July 28	2414	569	76	492
Fire-extinguisher.....	W. R. Johnston.....	558,959	Apr. 28	2539	615	75	528
Fire-extinguisher.....	G. P. Lynd, Jr.....	566,461	Aug. 25	2772	674	76	1191
Fire-extinguisher.....	H. A. Mansfield.....	557,411	Mar. 31	3447	826	74	1846
Fire-extinguisher.....	E. J. O'Brien and E. Schaefer.....	560,277	May 19	1726	391	75	1071
Fire-extinguisher.....	M. E. Ogden.....	570,262	Oct. 27	2727	649	77	555
Fire-extinguisher.....	E. Robinson.....	555,022	Feb. 18	2162	515	74	941
Fire-extinguisher.....	A. E. Shober.....	558,529	Apr. 21	1798	437	75	374
Fire-extinguisher. Automatic.....	C. E. Buell.....	563,910	July 14	1182	278	76	236
Fire-extinguisher. Automatic.....	C. E. Buell.....	570,900	Nov. 10	878	204	77	830
Fire-extinguisher. Automatic.....	C. E. Buell.....	572,404	Dec. 1	576	137	77	1387
Fire-extinguisher. Automatic.....	E. Livingston.....	555,386	Feb. 25	2814	682	74	1079
Fire-extinguisher. Automatic.....	D. C. Stillson.....	568,886	Oct. 6	294	67	77	56
Fire-extinguisher. Automatic chemical.....	F. H. Cyrenius.....	557,770	Apr. 7	446	105	75	84
Fire-extinguisher. Chemical.....	J. N. Eastwood.....	554,363	Feb. 11	1006	233	74	706
Fire-extinguisher. Chemical.....	E. F. Steck.....	552,880	Jan. 7	721	175 } 176 }	74	135
Fire-extinguisher. Chemical.....	E. F. Steck.....	571,582	Nov. 17	2042	486	77	1059
Fire-extinguisher installation. Automatic.....	J. A. Miller.....	558,653	Apr. 21	2004	485	75	411
Fire-extinguisher. Hand.....	J. Buchtel.....	568,658	Sept. 29	3414	816	76	1974
Fire-extinguisher nozzle.....	J. G. Hagmann.....	562,295	June 16	2163	526	75	1821
Fire-extinguisher. Portable.....	C. N. Perkins.....	565,215	Aug. 4	494	117	76	708
Fire-extinguisher systems. Valve for.....	E. M. Cook.....	558,259	Apr. 14	1328	324	75	268
Fire-extinguisher systems. Valve for.....	J. F. Miller.....	559,944	May 12	1094	243	75	900
Fire-extinguishers. Automatic sprinkler for.....	E. F. Steck.....	571,581	Nov. 17	2040	485 } 486 }	77	1059
Fire-extinguishers. Fusible plug for automatic.....	R. D. Johnson.....	556,631	Mar. 17	2076	486	74	1550
Fire-extinguishing apparatus.....	E. K. Driver.....	557,060	Mar. 24	2809	668	74	1706
Fire-extinguishing apparatus.....	J. L. Tirard.....	569,686	Oct. 20	1703	403	77	352
Fire-extinguishing composition.....	J. L. Webber.....	569,731	Oct. 20	1791	.....	77	367
Fire-extinguishing system.....	E. W. Thomas.....	570,689	Nov. 3	509	119	77	733
Fire-extinguishing system. Automatic.....	G. H. Robinson and E. F. Steck.....	571,578	Nov. 17	2032	484 } 485 }	77	1058
Fire-guard and soot-catcher.....	G. A. Pickle.....	558,101	Apr. 14	1066	262	75	218
Fire-hose trestle. Folding.....	W. B. Drummond.....	569,622	Oct. 20	1575	370	77	329
Fire-kindler.....	W. J. Bennet.....	569,910	Oct. 20	2088	496	77	421
Fire-kindler.....	W. J. Bowles, E. Campbell, and O. Reder.....	565,599	Aug. 11	1200	288	76	857
Fire-kindler.....	R. C. A. Jones.....	556,352	Mar. 17	1584	371	74	1458
Fire-kindler.....	A. Sendlein.....	566,419	Aug. 25	2663	650	76	1172
Fire-lighter.....	J. E. Gibbs and M. S. Nelson.....	568,674	Sept. 29	3436	822	76	1978
Fire-lighter.....	J. T. McDowell.....	558,513	Apr. 21	1772	430	75	369
Fire-lighter.....	F. Meyers.....	565,492	Aug. 11	1011	244	76	823
Fire-lighter. Automatic.....	D. R. Courvoisier.....	557,254	Mar. 31	3167	760	74	1791
Fireman's respirator.....	G. F. Bayles and T. B. Johnson.....	566,557	Aug. 25	2914	711	76	1218
Firemen. Trolley-protector for.....	J. P. Barrett.....	555,634	Mar. 3	259	60	74	1177
Fire-pail. Chemical.....	C. R. Macomber.....	563,977	July 14	1302	304	76	257
Fireplace.....	J. R. Donaldson.....	561,871	June 9	1450	350	75	1668
Fireplace furnace and ventilator.....	E. S. Rogers.....	557,231	Mar. 31	3119	748	74	1783
Fireplace hearth-bed.....	F. E. Faris.....	558,374	Apr. 14	1519	372	75	304
Fireplace heater.....	F. E. Backus.....	563,005	June 30	3427	825	75	2099
Fireplace heater.....	J. B. Crump.....	571,897	Nov. 24	2618	620	77	1186
Fireplace heater.....	H. Howe.....	559,487	May 5	238	53, 54 }	75	728
Fireplace heater.....	G. H. West.....	558,134	Apr. 14	1116	272	75	228
Fireplace heater. Open.....	W. P. Anderson.....	566,732	Sept. 1	2	1	76	1261
Fireplace lining.....	F. E. Backus.....	560,017	May 12	1225	274	75	927
Fireplace. Water-heating.....	R. T. Connell and J. C. Calhoon.....	556,807	Mar. 24	2377	559	74	1623
Fire-polishing. Apparatus for.....	H. C. Schrader.....	566,412	Aug. 25	2648	646	76	1169
Fireproof and ventilating floor.....	C. Major.....	556,998	Mar. 24	2707	640	74	1685

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fireproof blind	W. R. Kinnear	572,014	Nov. 24	2810	{ 662 663 }	77	1223
Fireproof building	G. Rushforth	556,375	Mar. 17	1630	382	74	1466
Fireproof-building construction	A. R. Fordyce	553,305	Jan. 21	1492	358	74	307
Fireproof buildings. Construction of	J. D. Lazell	560,587	May 19	2255	517	75	1165
Fireproof buildings. Construction of	P. McCabe	573,476	Dec. 22	2499	592	77	1805
Fireproof ceiling or wall	H. and W. Geraerdt	555,693	Mar. 3	356	83	74	1193
Fireproof construction	C. A. Balph and E. P. S. Wright	573,127	Dec. 15	1829	441	77	1666
Fireproof construction	A. R. Fordyce	555,084	Feb. 25	2291	546	74	979
Fireproof door	G. Fox, 2d	570,391	Oct. 27	2997	709	77	604
Fireproof door, door-frame, and window frame and shutter combination.	T. Bailey	570,895	Nov. 10	871	203	77	829
Fireproof floor	T. Bailey	570,863	Nov. 3	805	185	77	788
Fireproof floor	H. and W. Geraerdt	562,221	June 16	2041	494	75	1799
Fireproof floor	R. A. Kinkale and C. L. Wolf	566,189	Aug. 18	2251	550	76	1077
Fireproof floor	R. A. Kinkale and C. L. Wolf	566,190	Aug. 18	2252	551	76	1077
Fireproof floor and ceiling	C. A. Balph and E. P. S. Wright	557,100	Mar. 31	2875	687	74	1742
Fireproof floor and ceiling construction	C. F. T. Kandler	560,410	May 19	1956	447	75	1111
Fireproof floor construction	C. F. T. Kandler	559,081	Apr. 28	2742	667	75	566
Fireproof floor or roof	A. G. Eastman	564,783	July 28	2704	643	76	545
Fireproof floor, roof, &c.	J. H. Blakesley	558,597	Apr. 21	1911	465	75	394
Fireproof partition, ceiling, &c.	T. Bailey	564,299	July 21	1868	438	76	375
Fireproof partition for buildings	A. McCartney	552,539	Jan. 7	62	17	74	15
Fireproof shutter	J. Henning	568,443	Sept. 29	2989	719	76	1895
Fireproof shutter	F. E. Pollard	553,540	Jan. 28	1892	447	74	399
Fireproof studding	P. M. Bruner	573,839	Dec. 22	3145	749	77	1928
Fireproofing and preserving wood, &c.	J. F. Geisler	560,614	May 19	2303	527	75	1173
Fireproofing building materials	C. C. and G. E. Gilman	560,580	May 19	2246	.....	75	1163
Fireproofing liquid	S. Kalamakowski	568,766	Oct. 6	96	.....	77	21
Fire. System for protecting buildings from	E. L. Phipps	564,534	July 21	2259	530	76	446
Fires in lumber-yards, &c. Sprinkler system for extinguishing and preventing spreading of	F. Gray	561,311	June 2	438	108	75	1455
Fish-bait. Artificial	E. F. Pfueger	564,839	July 28	2790	664	76	561
Fish-catching device	G. Prosser	562,851	June 30	3142	761	75	2039
Fish-cutting machine	E. I. Bell	572,626	Dec. 8	946	229	77	1478
Fish extract. Making	F. Sahlfeld	554,540	Feb. 11	1305	.....	74	763
Fish-hook	J. T. Hastings	564,517	July 21	2228	523	76	441
Fish-hook	J. T. Hastings	570,632	Nov. 3	397	94	77	711
Fish-hook	F. M. Robinson	556,694	Mar. 17	2166	506	74	1567
Fish-hook and snell protector	C. A. Magnuson	566,595	Aug. 25	2964	723	76	1228
Fish-nets. Apparatus for casting	J. M. Holten	568,252	Sept. 22	2670	639	76	1820
Fish-plate	J. L. Hite	569,156	Oct. 6	758	176	77	144
Fish-plate lock	A. E. Trentowsky	554,156	Feb. 4	657	148	74	625
Fish-plates. Bolt and fastening device for	J. Tyzick and J. F. Lawton	556,836	Mar. 24	2423	569	74	1632
Fishpole-support	S. D. Horton	565,001	Aug. 4	71	17	76	630
Fish-scaler	M. C. F. Agüero	554,637	Feb. 11	1489	349	74	797
Fish-scaling device	H. W. Gremmels	572,982	Dec. 15	1577	378	77	1617
Fish-scraper	O. C. Macklett	565,999	Aug. 18	1944	470	76	1020
Fish-trap	J. L. Broekelmann and J. F. Buckler	563,356	July 7	212	47	76	43
Fish-trap	J. C. Burdick	564,553	July 21	2289	538	76	451
Fishing-bait. Artificial	C. J. W. Gaide	567,310	Sept. 8	1026	246	76	1485
Fishing basket or creel	L. E. Gieschen	566,903	Sept. 1	285	66	76	1337
Fishing device	C. Ackerson	554,764	Feb. 18	1706	400	74	856
Fishing or other lines. Sinkers for	A. B. Quinan	565,030	Aug. 4	121	29	76	641
Fishing-reel	E. C. vom Hofe	563,964	July 14	1281	300	76	253
Fishing-reel	C. F. Larzelere	558,821	Apr. 21	2290	556	75	463
Fishing-reel	A. F. and W. Meisselbach	553,069	Jan. 14	1064	259	74	213
Fishing-reel	E. F. Pfueger	560,925	May 26	2922	670	75	1307
Fishing-reel	T. J. Sutton	554,011	Feb. 4	376	83	74	574
Fishing-reel crank	A. B. Hendryx	556,540	Mar. 17	1938	452	74	1524
Fishing-rod	F. K. Dunn	564,742	July 28	2629	626	76	532
Fishing-rod	B. G. Leeper	553,005	Jan. 14	951	230	74	192
Fishing-rod holder. Automatically-actuated	O. Plath	562,195	June 16	2004	455	75	1792
Fishing-rod support	J. A. Eichner	567,084	Sept. 1	624	144	76	1400
Fittings under pressure. Means and construction for inserting	F. Sheridan	571,077	Nov. 10	1182	277	77	887
Flag and lantern holder	A. F. Smith	561,826	June 9	1370	329	75	1652
Flag or banner attachment	M. Ernst	559,167	Apr. 28	2945	711	75	605
Flagstaff	M. S. Cabell	556,614	Mar. 17	2052	480	74	1545
Flagstaff-holder	R. S. Chevrier	557,969	Apr. 7	793	189	75	149
Flame. Apparatus for focusing	C. H. Land	553,992	Feb. 4	346	76	74	569
Flame-tube boiler	W. Schmidt	565,041	Aug. 4	138	32	76	643
Flange-forming machine	P. Shellenback	554,148	Feb. 4	641	145	74	622
Flash-light apparatus	N. J. De Bow	568,336	Sept. 29	2815	677	76	1863
Flash-light apparatus	J. Wolf	571,632	Nov. 17	2128	511	77	1076
Flash-light apparatus. Electric	G. R. Lawrence	557,403	Mar. 31	3436	{ 823 824 }	74	1843
Flash-light burners. Electric receptacle for flashing-powder in	H. E. Rathbun and F. Bebb	555,332	Feb. 25	2726	639	74	1062
Flash-light machine	C. D. Vernon	555,133	Feb. 25	2377	564	74	997
Flashing	N. Barry, Jr.	558,025	Apr. 14	931	230	75	192
Flask:							
See Foundry-flask.							
Flat-iron support	M. S. Thompson	573,052	Dec. 15	1702	407	77	1641
Flats. Means for applying wire clothing to	C. Mills	565,554	Aug. 11	1117	270	76	842
Flats. Mechanism for driving traveling	E. and S. Tweedale and J. Smalley	570,829	Nov. 3	748	170	77	777
Flax-brake	A. Angell	564,358	July 21	1969	463	76	394
Flax-puller	A. C. Lamar	566,403	Aug. 25	2630	{ 642 643 }	76	1165
Flexible joint or coupling	J. H. Glauber	567,231	Sept. 8	865	206	76	1456
Flies. Device for relieving animals from	H. Chenault	562,758	June 23	2960	{ 716 717 }	75	1988
Float	F. and F. H. Engelhard	565,885	Aug. 18	1712	419	76	972
Flood-gate	W. S. Stewart and I. F. Gatewood	568,634	Sept. 29	3359	805	76	1963

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Floor and ceiling clamp.....	M. K. Bennett.....	559,052	Apr. 28	2697	657	75	557
Floor and ceiling plate.....	L. H. Snyder.....	568,632	Sept. 29	3356	804	76	1962
Floor and tile therefor. Drainer.....	D. J. Landers.....	572,762	Dec. 8	1197	289	77	1524
Floor-cloth. Machine for manufacturing mosaic.....	W. Mather.....	555,650	Mar. 3	293	68, 69	74	1182
Floor construction.....	A. C. Munoz.....	572,123	Dec. 1	50	12, 13	77	1287
Floor-drainage valve.....	O. Barratt.....	565,320	Aug. 4	682	164	76	742
Floor fabric.....	C. H. M. Lyte.....	568,092	Sept. 22	2399	578	76	1769
Floor. Illuminating.....	E. L. Ransome.....	570,102	Oct. 27	2435	578	77	500
Floor or ceiling clamp.....	A. A. Rounsaville.....	566,622	Aug. 25	3000	732	76	1236
Floor or roof construction for cold-storage or other buildings.....	I. G. Hooper.....	572,259	Dec. 1	290	70	77	1334
Flooring.....	T. Cantwell.....	564,820	July 28	2764	657	76	555
Flooring and ceiling lever.....	A. C. Tabbs.....	571,810	Nov. 24	2448	583	77	1156
Flooring and ceiling tool.....	J. A. Elder.....	571,432	Nov. 17	1779	424	77	1013
Flooring-boards. Machine for forming interfitting tongues and grooves on opposite ends of.....	J. P. Burnham.....	569,610	Oct. 20	1556	365	77	324
Flooring-boards. Machine for tonguing and grooving ends of.....	J. P. Burnham.....	569,611	Oct. 20	1558	366	77	325
Flour and meal bin and sifter. Combined.....	C. P. Alexander.....	567,062	Sept. 1	575	{ 134 135 }	76	1391
Flour-bin and dough-board. Combined.....	G. F. Wornstaff.....	555,549	Mar. 3	113	25	74	1151
Flour-bin. Weighing.....	A. E. Bohn.....	553,606	Jan. 28	2013	476	74	420
Flour-bolt cleaner.....	F. R. Stitzel.....	571,411	Nov. 17	1742	416	77	1006
Flour bolting or scalping machine.....	I. C. and M. C. Landes.....	569,211	Oct. 13	853	201	77	178
Flour compound and preparing same.....	J. T. O'Callaghan.....	559,462	May 5	198		75	720
Flour-dressing machine.....	J. H. Dawson.....	567,963	Sept. 22	2133	{ 514 515 }	76	1722
Flour-dressing reel.....	C. Bolenbaugh, E. B. Wagner, and H. P. Crockett.....	560,835	May 26	2741	{ 628 629 }	75	1273
Flour-mixing or blending machine.....	B. M. Root.....	557,892	Apr. 7	641	153	75	121
Flour-packers. Auger for.....	W. J. Hobbs.....	563,963	July 14	1279	300	76	253
Flower-holder.....	A. B. Cough.....	556,920	Mar. 24	2568	604	74	1659
Flower-holder.....	A. J. O'Neal.....	568,269	Sept. 22	2695	645	76	1825
Flower-stand.....	J. E. Doolittle.....	554,661	Feb. 18	1530	362	74	822
Flower-stand.....	F. Mejer.....	553,418	Jan. 21	1678	400	74	342
Flower-stand and bracket therefor.....	R. E. Burke.....	573,073	Dec. 15	1735	415	77	1648
Flower stand or shelf.....	F. G. Pittet.....	557,875	Apr. 7	619	147	75	117
Flue and smoke-stack protector.....	L. N. Dunmore.....	572,415	Dec. 1	588	140	77	1390
Flue and ventilator. Safety.....	R. G. Moon.....	572,174	Dec. 1	140	33	77	1304
Flue-cap.....	J. B. Davis.....	559,266	Apr. 28	3134	757	75	640
Flue-cleaner.....	E. A. Balz.....	560,830	May 26	2733	627	75	1272
Flue-cleaner.....	R. H. Black.....	572,740	Dec. 8	1160	279	77	1518
Flue-cleaner.....	M. G. Cook.....	560,084	May 12	1356	304	75	952
Flue-cleaner.....	T. D. S. Ruggles.....	570,506	Nov. 3	127	31	77	662
Flue-cleaner.....	F. C. Williams.....	573,946	Dec. 29	3337	797	77	1977
Flue-cutter.....	P. Dixon.....	564,056	July 14	1451	338	76	285
Flue-cutter.....	J. Fitzpatrick.....	565,850	Aug. 11	1636	401	76	940
Flue-cutter.....	T. D. Ruth.....	572,570	Dec. 8	847	203	77	1458
Flue-expander.....	J. T. Fuhrmann and J. M. Daugh- erty.....	555,915	Mar. 3	730	{ 176 177 }	74	1265
Flue-expanders. Machine for operating.....	J. A. Barhydt.....	564,139	July 14	1589	373	76	313
Flue-scraper.....	G. H. Fassett and J. Elder.....	566,973	Sept. 1	423	99	76	1361
Flue-scraper.....	G. R. Ford.....	560,091	May 12	1379	310	75	956
Flue-scraper.....	F. J. Freese.....	561,385	June 2	572	143	75	1480
Flue-scraper.....	H. Oltmanns.....	558,701	Apr. 21	2091	505	75	427
Flue-stop.....	R. C. Skinner.....	564,031	July 14	1392	323	76	273
Flue-thimbles. Device for closing.....	J. Sturgiss.....	565,941	Aug. 18	1825	443	76	996
Flues. Movable support for expansion.....	S. A. Griggs.....	552,525	Jan. 7	39	11	74	10
Fluid. Apparatus for delivering measured charges of.....	L. Schutte and A. S. Vogt.....	566,025	Aug. 18	1980	480	76	1027
Fluid-compressing engine. Rotary.....	I. T. Dyer.....	559,324	Apr. 28	3229	{ 780 781 }	75	658
Fluid-compressor.....	H. P. Morgan.....	554,604	Feb. 11	1420	333	74	785
Fluid-compressor.....	F. M. Rites.....	570,770	Nov. 3	644	147	77	756
Fluid-compressor.....	F. M. Rites.....	568,796	Oct. 6	142	34	77	29
Fluid-controlled gate.....	S. A. Crone.....	572,410	Dec. 1	582	{ 138 139 }	77	1389
Fluid flowing through pipes. Apparatus for controlling speed of.....	T. E. Brown, Jr., and R. H. Thorpe.....	569,781	Oct. 20	1883	447	77	383
Fluid-meter apparatus. Coin-freed.....	F. Wright.....	557,929	Apr. 7	713	172	75	134
Fluid-meters. Coin-freed apparatus for.....	J. F. Simmance.....	572,913	Dec. 8	1429	345	77	1573
Fluid-motor.....	J. Schade.....	552,872	Jan. 7	700	170	74	132
Fluid-pressure automatic brake.....	G. Westinghouse, Jr.....	573,190	Dec. 15	1943	{ 467 468 }	77	1686
Fluid-pressure brake.....	A. Dallas and O. P. Amick.....	572,871	Dec. 8	1364	330	77	1558
Fluid-pressure brake.....	D. Dunn.....	564,981	Aug. 4	38	8	76	624
Fluid-pressure brake.....	D. Dunn.....	570,915	Nov. 10	902	210	77	835
Fluid-pressure brake.....	J. M. Hurst.....	563,770	July 14	906	{ 216 217 }	76	185
Fluid-pressure brake.....	E. E. Kerns.....	564,522	July 21	2235	524	76	443
Fluid-pressure brake.....	E. E. Kerns.....	564,523	July 21	2236	525	76	443
Fluid-pressure brake.....	W. H. O'Connor.....	570,678	Nov. 3	485	{ 113 114 }	77	729
Fluid-pressure brake.....	H. S. Park.....	554,086	Feb. 4	522	117	74	600
Fluid-pressure brake.....	H. S. Park.....	555,877	Mar. 3	659	158	74	1251
Fluid-pressure brake.....	H. S. Park.....	573,790	Dec. 22	3047	722	77	1910
Fluid-pressure brake.....	R. A. Parke.....	562,773	June 23	2980	{ 722 723 }	75	1992
Fluid-pressure brake. Automatic.....	A. H. Moyes.....	563,673	July 7	739	174	76	139
Fluid-pressure brakes. Pressure-recorder for.....	S. L. Terry.....	568,963	Oct. 6	422	94, 95	77	81
Fluid-pressure engine.....	J. Douglas.....	565,845	Aug. 11	1629	399	76	939
Fluid-pressure-reducing apparatus.....	H. F. Fuller.....	573,213	Dec. 15	1981	477	77	1694
Fluid-pressure regulator.....	E. Bader.....	571,913	Nov. 24	2848	627	77	1192
Fluid-pressure regulator.....	J. D. Brassington.....	561,370	June 2	544	137	75	1475

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Fluid-pressure regulator	J. T. F. Conti	556,402	Mar. 17	1675	{ 390 391	74	1475
Fluid-pressure regulator	B. F. and H. F. Hadley	557,811	Apr. 7	517	124	75	98
Fluid-pressure regulator	R. Hardie	553,851	Feb. 4	71	14	74	517
Fluid-pressure regulator	W. O. Ludovici	566,775	Sept. 1	70	18	76	1293
Fluid-pressure regulator	I. W. Woods	572,464	Dec. 1	663	156	77	1405
Flume-gate	C. P. Brown	554,768	Feb. 18	1712	401	74	857
Flush-tank	R. C. De La Hunt	557,560	Apr. 7	45	13	75	10
Flush-tank	H. Thwaites	568,995	Oct. 6	489	110	77	93
Flush-tank apparatus	S. W. Lewis	552,535	Jan. 7	54	16	74	13
Flusher. Automatic siphon-tank closet.	J. F. Goodwin	567,091	Sept. 1	635	147	76	1402
Flushing apparatus	F. P. Giliberti	563,161	June 30	3709	887	75	2152
Flushing device. Closet.	J. W. Bragger	560,132	May 12	1446	326	75	970
Flushing device. Sewer.	F. Cavallaro	558,156	Apr. 14	1150	281	75	235
Flushing-tank, &c	T. C. Beaumont	568,729	Oct. 6	20	4	77	7
Flushing-tank	W. McShane	564,156	July 14	1637	382	76	320
Flux	H. C. Neary	562,735	June 23	2920		75	1979
Fluxing-machine	N. R. Saulsbury	569,062	Oct. 6	594	136	77	114
Fly-case	D. K. Howe	556,982	Mar. 24	2667	626	74	1678
Fly-catcher	C. H. Leggett	570,426	Nov. 3	89	21	77	655
Fly-catcher	E. Marshall	559,184	Apr. 28	2970	718	75	609
Fly-catcher	W. M. Maynadier	560,040	May 12	1276	287	75	937
Fly-escape	E. P. Campbell and G. E. Schlessler	556,251	Mar. 10	1367	321	74	1401
Fly-exit	C. O. Taylor	556,445	Mar. 17	1761	409	74	1492
Fly-frame	C. Whitaker	554,407	Feb. 11	1075	{ 251 252	74	720
Fly-frame	C. Whitaker	554,409	Feb. 11	1091	{ 254 255	74	722
Fly-frames. Cone-rack-actuating mechanism for	C. Whitaker	554,408	Feb. 11	1081	{ 252 253 254	74	721
Fly-paper. Sticky	W. C. Jerome	552,762	Jan. 7	479	118	74	90
Fly-paper. Sticky	O. G. Stolz	552,792	Jan. 7	541	132	74	102
Fly-screen	W. L. Gordon	567,828	Sept. 15	1913	458	76	1666
Fly-screen	T. H. Schuetz	563,314	July 7	141	32	76	29
Fly-trap	J. M. Butcher	568,322	Sept. 22	2784	670	76	1842
Fly-trap	C. F. Christopher	554,654	Feb. 18	1522	{ 359 360	74	820
Fly-trap	J. S. Shumate and H. W. Bartels	556,647	Mar. 17	2096	490	74	1553
Fly-trap	A. Tuffnell	557,919	Apr. 7	695	167	75	131
Fly-wheel	B. F. Eibler	558,163	Apr. 14	1160	284	75	237
Fodder-binder	C. A. Gordon	572,980	Dec. 15	1574	378	77	1616
Fodder-binder	J. Lust	554,943	Feb. 18	2013	476	74	913
Fodder-bundler	J. O. Johnson	561,994	June 16	1654	404	75	1727
Fodder compress and binder	J. I. Ashbaugh	564,910	July 28	2902	{ 695 696	76	582
Fodder-cutter	J. Dick	562,512	June 23	2521	{ 612 613	75	1904
Fodder-cutter	J. Dick	562,513	June 23	2523	613	75	1905
Fodder-loader	A. J. Hunt	558,179	Apr. 14	1189	290	75	242
Fodder packer and binder	C. T. McCane	571,385	Nov. 17	1703	405	77	998
Fodder-shredder	J. D. Tracy and J. F. Platt	557,727	Apr. 7	359	83	75	68
Fog-dispersing apparatus	F. Frey	558,940	Apr. 28	2507	608	75	521
Folding and extension table. Combined	O. Unger	556,387	Mar. 17	1649	{ 385 386	74	1470
Folding box	A. J. Gary	572,537	Dec. 8	783	187	77	1442
Folding box	W. L. and A. Hensel	561,708	June 9	1158	276	75	1615
Folding chair	R. J. Hubbard	556,418	Mar. 17	1705	398	74	1481
Folding chair	J. A. Koch	561,669	June 9	1074	259	75	1598
Folding chair	C. Nivison	569,657	Oct. 20	1643	348	77	341
Folding chair	H. Owens	568,625	Sept. 29	3342	801	76	1960
Folding chair	A. Paice	564,312	July 21	1891	447	76	340
Folding chair	W. Semler	570,776	Nov. 3	654	150	77	758
Folding chair	T. A. Switz	563,816	July 14	991	235	76	201
Folding chair	A. D. and W. K. Truesdell	564,575	July 21	2340	550	76	460
Folding chair. Adjustable	A. F. Briggs	571,823	Nov. 24	2468	586	77	1159
Folding chair for door-stoops	E. Levinge	561,900	June 9	1498	362	75	1678
Folding-machine	T. C. Dexter	564,556	July 21	2306	{ 542 543	76	454
Folding-machine	T. C. Dexter	567,300	Sept. 8	1005	{ 238 239	76	1481
Folding-machine	S. G. Goss	569,917	Oct. 20	2101	{ 500 501	77	423
Folding-machine	C. Kloninger and J. E. Button	573,603	Dec. 22	2713	{ 644 645	77	1847
Folding-machine	C. Schütz	569,355	Oct. 13	1107	{ 263 264	77	228
Folding-machine	W. Scott	572,280	Dec. 1	337	80, 81	77	1344
Folding-machine	F. H. Wendt	570,581	Nov. 3	274	68	77	689
Folding-machine packer	F. H. Wendt	570,580	Nov. 3	272	67, 68	77	689
Folding-machine. Rotary	T. M. North	573,348	Dec. 15	2235	{ 534 535	77	1739
Folding-machines. Alarm device for	J. P. Neilan	569,793	Oct. 20	1781	423	77	365
Folding or collapsible chair	C. J. Schulte and C. F. Wehmeyer	561,136	June 2	103	28	75	1387
Folding-partition box	W. H. Ferguson	567,371	Mar. 31	3375	810	74	1852
Folding stand	W. E. Baxter	561,857	June 9	1430	344	75	1665
Folding stand. Adjustable	E. G. Penfield	571,980	Nov. 24	2758	650	77	1214
Folding table	J. W. Ernest	565,339	Aug. 4	715	171	76	749
Folding table	N. O'Brien	564,711	July 28	2568	608	76	522
Folding table	J. and J. Palmer	569,514	Oct. 13	1372	322	77	275
Folding table	L. A. Piaget	553,721	Jan. 28	2210	524	74	456
Folding table	H. Selders	570,509	Nov. 3	131	32	77	663
Folding table and tray	W. L. Whiting	568,321	Sept. 22	2783	{ 669 670	76	1842

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Folding table. Metal.	A. Epstein.	561,212	June 2	241	58	75	1414
Folding table. Sectional.	A. M. Cody.	564,504	July 21	2205	517	76	437
Food compound.	J. H. Kellogg.	567,901	Sept. 15	2016	76	1687	
Food compound and making same.	J. H. Hetherington.	554,366	Feb. 11	1012	74	708	
Food compound and preparing same.	A. Bernstein.	560,834	May 26	2740	75	1273	
Food compound. Farinaceous.	P. B. Rose.	568,492	Sept. 29	3073	76	1910	
Foot-ball.	A. Nisbet.	568,871	Oct. 6	274	63	77	53
Foot. Extension.	E. L. O'Connor.	553,929	Feb. 4	238	51	74	550
Foot-power machine.	S. A. Gould.	564,572	July 21	2337	549	76	459
Foot-rest. Adjustable.	R. D. Brown.	560,082	May 12	1352	304	75	951
Foot-warmer.	C. A. Rickard and J. A. Lowrie.	567,166	Sept. 8	771	181	76	1440
Forceps. Bone.	A. De Vilbiss.	571,040	Nov. 10	1114	261	77	874
Forceps. Gynecological.	F. Wagner.	555,194	Feb. 25	2480	586	74	1017
Fore-carriage.	J. Duncan.	553,112	Jan. 14	1146	278	74	229
Forging and welding machine.	G. Debombourg.	571,344	Nov. 17	1636	388	77	987
Forging-machine.	W. R. Webster.	557,922	Apr. 7	704	168	75	133
Forging metallic rings. Apparatus for.	J. P. Stanton and W. Lewis.	560,443	May 19	2023	463	75	1123
Fork:							
See Corn-fork.	Toasting-fork.						
Hay-fork.	Vegetable-fork.						
Potato-fork.							
Fork.	G. J. Fanner and J. H. Kirkwood.	561,101	June 2	46	12	75	1376
Fork.	P. Newton.	567,194	Sept. 8	806	191	76	1446
Fork attachment. Carving.	J. Forbes.	554,173	Feb. 4	687	155	74	631
Form. Dress-display.	E. M. Brigham.	561,371	June 2	547	137	75	1475
Form. Dressmaker's.	W. J. Boyer.	553,834	Feb. 4	25	7	74	509
Form-washing device.	A. L. Hemphill.	573,410	Dec. 15	2335	557	77	1757
Forming-machine.	J. N. Lake and J. Clark.	555,575	Mar. 3	154	37	74	1158
Foundation-tubers from rot. Means for protecting.	L. Nerreter.	559,194	Apr. 28	2993	732	75	615
Fourdrinier machine.	T. H. Savery.	568,373	Sept. 29	2874	691	76	1874
Foundry-flask.	W. S. Withers.	561,190	June 2	212	51	75	1408
Fountain:							
See Drinking-fountain.							
Fountain.	C. A. Dunlap.	556,090	Mar. 10	1074	257	74	1348
Fountain.	R. G. Gilmore and C. A. Dunlap.	557,263	Mar. 31	3180	763	74	1794
Fracture apparatus.	O. Claussen.	570,085	Oct. 27	2405	569	77	494
Frame:							
See Curtain-drying	Picture-frame.						
frame.	Quilting-frame.						
Display-frame.	Separable frame.						
Drying-frame.	Supporting-frame.						
Frame corner-iron.	M. Lynch.	566,593	Aug. 25	2961	722	76	1228
Friction-movement.	M. D. Knowlton.	564,250	July 21	1781	417	76	361
Frog. Replacing.	H. L. Snow.	560,944	May 26	2949	677	75	1412
Frog. Wrecking.	C. K. Marshall.	564,093	July 14	1513	354	76	297
Frogs &c. Foot-guard for.	F. F. Roberts.	566,096	Aug. 18	2095	511	76	1048
Frogless switch.	C. B. Price.	553,934	Feb. 4	246	53	74	550
Fruit-box.	E. R. Morrill.	570,763	Nov. 3	635	146	77	754
Fruit-can.	W. Glanzer.	565,679	Aug. 11	1347	327	76	887
Fruit-cleaning machine.	C. Duckworth.	573,769	Dec. 22	3019	715	77	1905
Fruit cutting and pitting machine.	J. F. Rehm.	569,838	Oct. 20	1970	468	77	399
Fruit-dipping apparatus.	J. Lynam and E. W. Russell.	556,826	Mar. 24	2411	566	74	1630
Fruit-drier.	A. B. Shearer.	572,224	Dec. 1	231	55	77	1322
Fruit-gatherer.	C. A. Banzet and C. H. Berger.	565,101	Aug. 4	260	62	76	664
Fruit-gatherer.	H. Edgarton.	561,575	June 9	926	221	75	1570
Fruit-gatherer's staging.	I. N. Fickes.	558,166	Apr. 14	1163	285	75	237
Fruit-handling machine.	J. R. Hillman.	562,824	June 30	3093	749	75	2030
Fruit-holder.	F. F. Heilborn.	559,527	May 5	304	73	75	741
Fruit-holding pocket.	T. S. Fitch.	564,605	July 28	2402	566	76	490
Fruit-jar.	J. L. De Steiger.	574,306	Dec. 29	4040	960	77	2105
Fruit-jar.	P. Philip.	567,610	Sept. 15	1533	369	76	1592
Fruit-jar.	A. G. Smalley.	572,281	Dec. 1	340	82	77	1344
Fruit-picker.	D. H. Gould.	564,881	July 28	2861	686	76	574
Fruit-pitter.	S. Allman and E. A. Ingham.	567,702	Sept. 15	1688	406	76	1623
Fruit-pitting machine.	A. Harpold.	553,649	Jan. 28	2087	492	74	433
Fruit-splitting machine.	S. H. Shelley.	554,037	Feb. 4	429	95	74	584
Fruits. Apparatus for treating dried.	H. A. Turner, Jr.	571,100	Nov. 10	1236	287	77	896
Fruits. Sack used in picking citrus.	W. Aspdon.	558,022	Apr. 14	925	230	75	191
Frying-pan.	Z. T. Hall.	559,172	Apr. 28	2951	713	75	606
Frying-pan.	W. Hodges and J. H. Robbins.	557,126	Mar. 31	2923	099	74	1752
Frying-pan.	J. J. Reutlinger.	566,226	Aug. 18	2306	565	76	1088
Frying-pan support.	L. Adams.	561,251	June 2	295	74	75	1425
Frying-pans, &c. Lid for.	R. A. Morgan.	573,680	Dec. 22	2-80	680	77	1878
Fuel. Artificial.	A. M. Gontner and F. G. Motter.	563,162	June 30	3710	75	2152	
Fuel. Artificial.	J. D. Olin.	570,495	Nov. 3	109	77	658	
Fuel. Artificial.	J. Van Opstal and E. M. Forst.	569,689	Oct. 20	1708	77	353	
Fuel-burner.	G. C. St. John.	553,696	Jan. 28	2162	511	74	447
Fuel burner. Fluid.	W. A. Stapp and C. P. Hamilton.	565,126	Aug. 4	308	73	76	674
Fuel, &c. Compound for producing artificial.	G. D. Platte.	561,725	June 9	1195	75	1621	
Fuel-economizer.	T. Sykes.	565,643	Aug. 11	1277	310	76	873
Fuel feeder and distributor.	L. Myers.	567,190	Sept. 8	801	189	76	1446
Fuel. Feeding pulverized.	E. C. Smith.	563,987	July 14	1319	308	76	260
Fuel-injector. Universal.	A. Bryce and L. J. Kennedy.	561,934	June 9	1546	374	75	1687
Fuel-pulverizing machine.	E. C. Smith.	564,033	July 14	1394	325	76	274
Fumes. Apparatus for condensing metalliferous.	M. W. Iles.	553,989	Feb. 4	341	75	74	568
Fumes. Apparatus for saving metallic.	M. W. Iles.	559,453	May 5	185	40	75	717
Fumigating apparatus.	E. C. Colson.	558,258	Apr. 14	1325	323	75	267

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Fumigating apparatus	T. F. Moss	571,784	Nov. 24	2403	574	77	1147
Fumigator	W. M. Luther	573,675	Dec. 22	2871	678	77	1876
Fumigator	J. S. Newnau	556,936	Mar. 24	2590	609	74	1663
Funeral carriage or car	R. A. McCauley	557,335	Mar. 31	3310	{ 794 795 }	74	1819
Funnel	C. M. Pratt	568,411	Sept. 29	2940	706	76	1886
Funnel and stopper therefor. Automatic	H. I. Keiner	559,897	May 12	1017	225	75	85
Funnel-holder	A. O. Haslewood	556,055	Mar. 10	1015	243	74	1337
Funnel, strainer, and clothes-sprinkler. Combined	W. L. Pipe	559,905	May 12	1033	229	75	890
Fur-plucking machine	I. Dresdner	568,750	Oct. 6	68	15	77	16
Fur-plucking machine	C. E. Sackett	566,342	Aug. 25	2503	614	76	1141
Fur-plucking machine	C. E. Sackett	566,343	Aug. 25	2506	{ 614 615 }	76	1142
Fur-tail trimming. Artificial	E. Kraatz	557,683	Apr. 7	287	69	75	54
Fur-trimming machine	H. and A. Chapal	562,375	June 23	2306	560	75	1864
Furnace:							
<i>See</i> Annealing-furnace. Heating and ventilating furnace.							
Blank furnace. Hot-air furnace.							
Blast-furnace. Melting-furnace.							
Boiler-furnace. Metal-heating furnace.							
Boiler or other furnace. Metallurgical furnace.							
Calcining-furnace. Muffle-furnace.							
Crucible-furnace. Open-hearth furnace.							
Cupola-furnace. Ore-roasting furnace.							
Dental furnace. Pair and reheating furnace.							
Deoxidizing-furnace. Petroleum-burning furnace.							
Downdraft-furnace. Portable furnace.							
Drying-furnace. Regenerating-furnace.							
Electric furnace. Regenerative furnace.							
Electrical furnace. Roasting-furnace.							
Fireplace-furnace. Smelting-furnace.							
Gas-furnace. Smoke-consuming furnace.							
Glass-annealing furnace. Steam-furnace.							
Glass-tank furnace. Steam-generator furnace.							
Heating-furnace. Steam-generator furnace.							
Furnace	H. T. Dieck	560,978	May 26	2995	689	75	1321
Furnace	C. J. Dorrance	559,887	May 12	989	220	75	883
Furnace	J. Dunn	561,097	June 2	34	9, 10	75	1374
Furnace	M. J. Graney	555,371	Feb. 25	2794	654	74	1075
Furnace	C. A. Gras	568,900	Oct. 6	313	72	77	60
Furnace	J. H. Johnson and J. Moran	556,098	Mar. 10	1089	259	74	1351
Furnace	G. W. Kraft	566,774	Sept. 1	68	18	76	1293
Furnace	J. Kritch	555,172	Feb. 25	2438	{ 577 578 }	74	1009
Furnace	G. E. Lenhart	560,726	May 26	2552	{ 586 587 }	75	1236
Furnace	T. H. Lucas	554,705	Feb. 18	1600	377	74	836
Furnace	H. Lutz and W. Schaefer	554,070	Feb. 4	489	110	74	594
Furnace	I. S. McGiehan	562,845	June 30	3133	759	75	2037
Furnace	T. A. McKibbin	558,737	Apr. 21	2151	518	75	438
Furnace	W. Oehlstrom	565,214	Aug. 4	492	117	76	708
Furnace	W. H. Peck and D. R. W. Patterson	573,235	Dec. 15	2022	485	77	1701
Furnace	W. A. Perry	569,665	Oct. 20	1653	{ 390 391 }	77	343
Furnace	G. Playford	558,206	Apr. 14	1234	301	75	250
Furnace	R. L. Puciata	567,611	Sept. 15	1535	{ 369 370 371 }	76	1593
Furnace	W. L. Ross	561,817	June 9	1354	323	75	1650
Furnace	J. W. F. Sole	560,657	May 26	2437	{ 557 558 }	75	1213
Furnace	R. L. Walker	567,525	Sept. 8	1382	{ 332 333 }	76	1548
Furnace	C. E. Wyman	557,469	Mar. 31	3539	846	74	1863
Furnace air-heating apparatus	W. Stubblebine	573,799	Dec. 22	3063	{ 725 726 }	77	1913
Furnace air-injector	C. E. Norton	556,687	Mar. 17	2158	504	74	1566
Furnace and grate	J. G. Sanderson	561,729	June 9	1199	{ 284 285 }	75	1622
Furnace apparatus	C. A. Gras	568,899	Oct. 6	311	71, 72	77	60
Furnace. Automatically-feeding	B. D. Childrey	574,190	Dec. 29	3829	{ 913 914 915 }	77	2065
Furnace center-blast pipe	C. Johnson	556,633	Mar. 17	2078	486	74	1550
Furnace-charging apparatus	S. T. and C. H. Wellman	569,075	Oct. 6	615	140	77	118
Furnace-cleaner	G. W. Manuel	555,870	Mar. 3	644	{ 154 155 }	74	1249
Furnace dead-plate	C. H. Evans	560,026	May 12	1244	279	75	930
Furnace-door	E. M. Andrus	573,847	Dec. 29	3156	752	77	1945
Furnace-door	A. Burkart-Stalder	561,536	June 2	852	205	75	1531
Furnace-door	W. H. Harris	566,756	Sept. 1	43	11	76	1288
Furnace-door-operating device	S. E. Farrell	556,262	Mar. 10	1394	327	74	1408
Furnace-doors. Device for automatically opening or closing	A. H. Wethey	565,311	Aug. 4	671	161	76	739
Furnace draft attachment	A. Jahant	569,204	Oct. 13	835	196	77	175
Furnace-feeding device	G. R. Jarman	574,331	Dec. 29	4082	970	77	2112
Furnace-feeding mechanism	F. Hofacker	566,582	Aug. 25	2947	719	76	1225
Furnace foot-box	E. A. Eversman and D. Wagner	562,596	June 23	2688	650	75	1935
Furnace for enameling and heating without muffles. Twin	C. M. Herrmann	573,975	Dec. 29	3414	818	77	1991
Furnace for heating steel and iron ingots	H. W. Hollis	571,667	Nov. 17	2181	{ 524 525 }	77	1085

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Furnace for hot-water heating systems.....	C. S. Fanrot.....	563,365	July 7	222	50	76	45
Furnace for iron-working.....	W. Heckert.....	573,590	Dec. 22	2688	639	77	1841
Furnace for pulverized fuel.....	W. E. Clarke and J. W. McEachren.....	573,662	Dec. 29	3194	760	77	1950
Furnace-front for steam-boilers.....	J. P. Serve.....	562,493	June 23	2490	604	75	1899
Furnace fuel-feeder.....	W. Ruhl.....	571,139	Nov. 10	1302	{ 302 303 }	77	908
Furnace-fumes. Separating dust from.....	H. G. Williams.....	554,563	Feb. 11	1339	313	74	770
Furnace-grate.....	F. E. Culver.....	555,679	Mar. 3	338	77	74	1190
Furnace-grate.....	G. Dupmeyer.....	571,111	Nov. 10	1255	291	77	899
Furnace-grate.....	E. J. Gordon.....	574,030	Dec. 29	3503	837	77	2006
Furnace-grate.....	C. R. Greuter.....	567,974	Sept. 22	2153	{ 518 519 196 197 }	76	1724
Furnace-grate.....	F. W. Jarvis.....	569,205	Oct. 13	836	{ 119 119 }	77	175
Furnace-grate.....	M. F. Mulready.....	555,788	Mar. 3	493	119	74	1219
Furnace-grate.....	M. F. Mulready.....	555,826	Mar. 3	562	135	74	1233
Furnace-grate.....	C. H. Radke.....	572,275	Dec. 1	324	77	77	1341
Furnace-grate.....	T. Reese, Jr.....	562,196	June 16	2005	485	75	1792
Furnace-grate.....	W. R. Roney.....	569,353	Oct. 13	1103	{ 261 262 514 515 }	77	227
Furnace-grate and automatic stoker.....	J. G. Sanderson.....	573,298	Dec. 15	2145	{ 242 243 243 }	77	1722
Furnace-grate. Steam-boiler.....	F. R. Tibbitts, W. A. Madison, and C. J. Allen.....	561,627	June 9	1012	{ 242 243 }	75	1586
Furnace. Mechanical-stoker.....	G. Playford, Jr.....	570,268	Oct. 27	2737	651	77	557
Furnace offtake. Blast.....	W. Rothhoff and M. A. Neeland.....	567,414	Sept. 8	1213	290	76	1518
Furnace or heater.....	N. A. Boynton.....	558,894	Apr. 21	2417	589	75	488
Furnace, range, or stove door.....	J. E. Davis.....	562,511	June 23	2521	612	75	1904
Furnace smoke-consuming attachment.....	W. R. and J. Brazie.....	567,075	Sept. 1	606	141	76	1397
Furnace-valve.....	R. Stevens.....	570,272	Oct. 27	2745	653	77	558
Furnaces. Air and steam feeding device for.....	C. C. Mengel, Sr.....	554,191	Feb. 4	708	160	74	635
Furnaces. Apparatus for condensing fumes from smelting.....	H. W. Rappleye.....	557,880	Apr. 7	626	149	75	118
Furnaces. Apparatus for controlling admission of air to.....	G. R. House.....	558,493	Apr. 21	1740	{ 421 422 698 699 }	75	362
Furnaces. Apparatus for feeding bagasse.....	J. Fisher.....	564,918	July 28	2915	{ 698 699 }	76	585
Furnaces. Apparatus for improving combustion in.....	T. M. Eynon.....	569,329	Oct. 13	1063	252	77	219
Furnaces. Art of and apparatus for controlling operation of traveling-grate.....	E. B. Cox.....	562,068	June 16	1798	435	75	1753
Furnaces. Automatic damper-regulator for boiler.....	W. A. Kendrick.....	559,715	May 5	607	146	75	798
Furnaces. Automatic regulator for.....	R. L. Short.....	569,944	Oct. 20	2158	512	77	434
Furnaces. Automatic reignition apparatus for hydrocarbon- blast.....	A. Seigle.....	571,076	Nov. 10	1181	277	77	886
Furnaces. Device for preventing obstruction of blast in blast.....	J. M. Hartman.....	570,129	Oct. 27	2479	587	77	508
Furnaces. Draft-tube for locomotive-boiler.....	G. C. Sharpe.....	561,621	June 9	1003	240	75	1585
Furnaces. Explosive valve for blast.....	T. Coultas.....	553,956	Feb. 4	283	63	74	556
Furnaces. Means for supplying hot air to boiler.....	J. Alves.....	566,645	Aug. 25	3031	741	76	1242
Furnaces. Mechanism for charging blast.....	H. G. Williams.....	554,562	Feb. 11	1337	313	74	770
Furnaces. Method of and apparatus for heating blasts for smelting.....	J. W. Nesmith.....	555,731	Mar. 3	418	96	74	1205
Furnaces. Nozzle for injecting steam into.....	W. L. Denio.....	564,873	July 28	2852	{ 683 684 }	76	573
Furnaces. Pressure-alarm for gas-supply pipes to.....	F. S. Baker.....	554,016	Feb. 4	391	86	74	577
Furnaces. Relief device for blast.....	J. Andrews.....	554,569	Feb. 11	1353	317	74	773
Furnaces. Shaking-grate for domestic hot-air.....	J. T. Austin.....	565,400	Aug. 4	815	193	76	768
Furnaces. Slice-bar for boiler or other level-grate.....	J. W. Wetmore.....	563,947	July 14	1247	291	76	247
Furnaces. Stirring device for calcining.....	A. H. Wetthey.....	565,313	Aug. 4	674	162	76	740
Furnaces. Tripping door for calcining.....	A. H. Wetthey.....	565,312	Aug. 4	673	161	76	740
Furniture.....	W. H. Bean.....	554,017	Feb. 4	394	86	74	577
Furniture.....	E. L. Fuller.....	555,945	Mar. 10	794	191	74	1298
Furniture. Adjustable.....	G. A. Bobrick.....	567,762	Sept. 15	1769	429	76	1643
Furniture. Adjustable support for.....	G. A. Bobrick.....	563,010	June 30	3133	826	75	2100
Furniture-base.....	J. L. Stair.....	558,854	Apr. 21	2341	569	75	473
Furniture-base.....	W. F. Woodruff.....	561,745	June 9	1226	{ 290 291 }	75	1627
Furniture. Changeable.....	J. Horneburg.....	567,595	Sept. 15	1512	364	76	1588
Furniture-clamp.....	F. Schweitzer.....	572,725	Dec. 8	1131	273	77	1513
Furniture. Collapsible.....	W. H. Vaughan.....	558,865	Apr. 21	2364	{ 576 577 }	75	477
Furniture-finisher.....	C. R. Evits and G. K. Hurlbut.....	553,806	Jan. 28	2345	558	74	482
Furniture. Folding leg for.....	D. E. Carter.....	554,981	Feb. 18	2078	494	74	926
Furring for buildings. Metallic.....	J. T. McCormick.....	573,158	Dec. 15	1881	453	77	1675
Furniture-leg.....	W. G. Boughton.....	554,578	Feb. 11	1369	322	74	776
Furniture-leg attachment.....	C. Birely.....	568,397	Sept. 29	2911	701	76	1881
Furniture. Revolving.....	C. Bostad and O. O. Krabøl.....	556,732	Mar. 24	2238	523	74	1598
Furred pelts. Machine for plucking hair from.....	S. E. Sackett.....	557,236	Mar. 31	3138	753	74	1786
Furrow opening or closing mechanism.....	C. E. Stewart.....	558,578	Apr. 21	1876	{ 455 456 }	75	387
Furrower, marker, and coverer. Combined.....	A. S. Linthicum.....	567,904	Sept. 15	2019	484	76	1688
Fuse and switch box. Junction.....	W. F. Bossert.....	552,658	Jan. 7	276	75	74	54
Fuse. Automatic.....	H. C. Reagan, Jr.....	560,819	May 26	2709	632	75	1268
Fuse. Automatic shell.....	J. Rapiéff.....	559,495	May 5	249	{ 57 58 59 }	75	730
Fuse-block. Multiple.....	E. H. Montgomery.....	571,093	Nov. 10	1212	284	77	852
Fuse-box.....	J. S. Strouse.....	554,042	Feb. 4	438	96	74	585
Fuse cut-out.....	W. E. Harrington.....	560,128	May 12	1439	324	75	968
Fuse cut-out. Multiple.....	G. T. Voorhees.....	569,692	Oct. 20	1711	406	77	353
Fuse. Double-acting mechanical.....	F. Maubeuge.....	565,172	Aug. 4	417	{ 100 191 }	76	694
Fuse for electric circuits.....	C. F. Scott.....	569,803	Oct. 20	1918	455	77	389
Fuse for explosive projectiles or shells.....	J. C. Thompson.....	565,524	Aug. 11	1069	257	76	834

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Fuse for high explosives	R. B. Dashiell	571,342	Nov. 17	1633	388	77	986
Fuse for shells. Time	W. J. Smith	570,065	Oct. 27	2366	562	77	486
Fuse for shells. Time	H. Tolley	557,454	Mar. 31	3514	840	74	1859
Fuse-holder and lightning-arrester	H. A. Lewis	554,130	Feb. 4	614	138	74	617
Fuse. Percussion	W. B. Felts	561,506	June 2	788	192	75	1519
Fuse. Shell	H. Allen	562,061	June 16	1773	429	75	1750
Fuses. Device for placing electric blasting	R. H. Elliott	556,882	Mar. 24	2503	590	74	1648
Fuses. Primer for blasting	J. H. Hart	569,871	Oct. 20	2023	482	77	409
Fusible joint	H. T. Moody	563,394	July 7	267	60	76	54
Fustians, &c. Machine for cutting nap of	F. Alsina	555,416	Feb. 25	2862	676	74	1089
Gable ornament	T. L. Dillon	569,550	Oct. 13	1426	337	77	286
Gage:							
See Balance-staff gage.	Printing-press feed-gage.						
Bit-gage.	Railway-track gage.						
Carpenter's gage.	Saw-table gage.						
Creamer-gage.	Sawing-machine gage.						
Handle-holding gage.	Sheet-metal gage.						
Mercury test-gage.	Shingling-gage.						
Micrometer-gage.	Steam-gage.						
Micrometer-beam gage.	Surface-gage.						
Packing cutting-gage.	Track-gage.						
Paper-maker's gage.	Track and wheel gage.						
Pressure-gage.	Tympan-gage.						
	Water-gage.						
	Weather-board gage.						
	Wheel-gage.						
Gage	R. Conway	560,781	May 26	2658	611	75	1257
Gage	O. Forbush	573,457	Dec. 22	2468	585	77	1799
Gage	A. J. and J. B. Haskell	559,450	May 5	181	40	75	717
Gage	J. P. Van Vleck	572,321	Dec. 1	421	99	77	1359
Gaging and scribing tool	J. R. Topping	565,579	Aug. 11	1165	279	76	851
Galvanic battery	E. S. Boynton	557,355	Mar. 31	3346	804	74	1827
Galvanic battery	E. S. Boynton	557,356	Mar. 31	3347	804	74	1872
Galvanic battery	E. S. Boynton	563,127	June 30	3655	875	75	2142
Galvanic battery	T. E. Fogalsang	561,878	June 9	1458	352	75	1670
Galvanic battery	R. W. Gordon	570,013	Oct. 27	2271	540	77	467
Galvanic battery	E. L. Slocum	555,056	Feb. 18	2236	534	74	952
Galvanic battery	E. L. Slocum	555,058	Feb. 18	2239	535	74	953
Galvanic ring	M. L. Thompson	567,422	Sept. 8	1223	293	76	1520
Galvanizing-machine	J. T. Owen	556,204	Mar. 10	1286	301	74	1387
Galvanometer	C. Coleman	570,454	Nov. 3	25	6	77	613
Gambrel. Folding	P. N. Swanson	554,549	Feb. 11	1319	309	74	766
Game	F. W. Andrus	554,357	Feb. 11	1000	231	74	705
Game	C. H. Rile	554,835	Feb. 18	1823	427	74	880
Game	L. D. Warner	554,752	Feb. 18	1676	395	74	850
Game apparatus	W. R. Austin and W. N. Crow	560,251	May 19	1677	382 383	75	1063
Game apparatus	J. W. Blackham	556,246	Mar. 10	1358	320	74	1400
Game apparatus	R. Booth	557,646	Apr. 7	226	55	75	43
Game apparatus	J. E. Brooks	570,743	Nov. 3	601	138	77	748
Game apparatus	E. F. Buffat	566,134	Aug. 18	2161	526	76	1059
Game apparatus	C. E. Butler	567,218	Sept. 8	843	200	76	1453
Game apparatus	J. S. Chapman and J. M. Scott	558,157	Apr. 14	1152	282	75	235
Game apparatus	W. W. Climensen	574,192	Dec. 29	3838	916	77	2066
Game apparatus	J. Conner	574,351	Dec. 29	4120	978	77	2119
Game apparatus	F. L. Decker	561,869	June 9	1447	349	75	1668
Game apparatus	B. O. Dorn	558,265	Apr. 14	1340	328	75	270
Game apparatus	W. E. Dow	560,197	May 19	1568	355	75	1043
Game apparatus	A. W. Fall	571,997	Nov. 24	2786	657	77	1219
Game apparatus	S. W. Featherstone	555,213	Feb. 25	2510	592	74	1022
Game apparatus	A. C. Frick	574,087	Dec. 29	3603	861	77	2026
Game apparatus	H. Goos	566,307	Aug. 25	2438	597	76	1129
Game apparatus	J. G. Gregory	570,393	Oct. 27	2999	710	77	605
Game apparatus	H. A. Beap and H. H. Van Kuran	574,150	Dec. 29	3721	886	77	2047
Game apparatus	H. R. Hinckley	557,205	Mar. 31	3080	738	74	1776
Game apparatus	H. M. Holland	563,767	July 14	901	215 216	76	185
Game apparatus	J. E. Irvine	569,102	Oct. 6	661	153	77	126
Game apparatus	W. T. Johnson	566,715	Aug. 25	3156	772 773	76	1262
Game apparatus	J. F. Morris	555,220	Feb. 25	2521	595	74	1024
Game apparatus	R. M. Nachmias	563,507	July 7	465	109	76	89
Game apparatus	J. Onwake	561,062	May 26	3132	722	75	1347
Game apparatus	E. H. Pratt	568,792	Oct. 6	138	33	77	28
Game apparatus	G. W. Pratt	571,843	Nov. 24	2508	594	77	1166
Game apparatus	T. A. Ryan and I. Whitney	570,105	Oct. 27	2438	579	77	501
Game apparatus	J. B. Sargent	565,235	Aug. 4	562	132	76	718
Game apparatus	C. J. Stauffer	569,391	Oct. 13	1164	277	77	238
Game apparatus	B. W. Taylor	570,779	Nov. 3	657	150	77	759
Game apparatus	H. M. Van Kuran	572,388	Dec. 1	552	130	77	1383
Game apparatus	G. L. Wheelock	561,366	June 2	536	135	75	1473
Game apparatus and cigar-cutter. Combined	E. J. Haverly	569,130	Oct. 6	708	166	77	135
Game apparatus. Base-ball	W. H. Robinson	561,916	June 9	1518	368	75	1681
Game apparatus. Folding pocket	F. D. Gildersleeve and F. H. Rogers	565,737	Aug. 11	1450	353	76	905
Game-board	W. R. Austin and W. N. Crow	565,954	Aug. 18	1849	449	76	1000
Game-board	W. A. Conklin	567,885	Sept. 15	1996	479	76	1653
Game-board	G. A. Grassow	566,309	Aug. 25	2444	599	76	1130
Game-board	H. Gregson	568,611	Sept. 29	3322	796	76	1956
Game-board	P. S. McGee	552,694	Jan. 7	343	90	74	67
Game-board	A. Nurick	569,140	Oct. 6	726	171	77	138
Game-board	W. E. Robinson	560,233	May 19	1642	374	75	1056
Game-board	P. G. Smith	552,786	Jan. 7	520	130	74	99
Game-board	J. W. Waddell	567,177	Sept. 8	786	185	76	1442
Game-counter	E. C. Bull	570,120	Oct. 27	2465	584	77	505

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Game-counter	E. Hayden	563,662	July 7	711	168	76	134
Game-counter	J. Solatinow	563,086	June 30	3589	860	75	2129
Game-counter	J. Solatinow	571,174	Nov. 10	1351	315	77	918
Game-counter	C. Widmer, Sr.	572,920	Dec. 8	1458	350	77	1578
Game device	W. B. Seward	563,419	July 7	306	69	76	60
Game device	C. O. Truex	571,464	Nov. 17	1833	437	77	1023
Game-illustrating apparatus. Base-ball.	A. K. Schaap	558,571	Apr. 21	1865	453	75	385
Game-indicator	E. Brooks, Jr.	558,599	Apr. 21	1913	465	75	394
Game machine and apparatus	E. D. Averell	557,938	Apr. 7	725	174	75	137
Game-of-chance apparatus	S. T. Nimmo	566,930	Sept. 1	334	78	76	1346
Game of skill	R. Teichmann	558,325	Apr. 14	1436	353	75	289
Game or puzzle	J. T. Ahrens	553,326	Jan. 21	1526	365	74	313
Game-table	J. A. Hamilton	573,972	Dec. 29	3409	817	77	1990
Game-table	G. S. Jeffries	572,056	Nov. 24	2889	682	77	1238
Game-table. Convertible	A. C. D. Seifert	572,688	Dec. 8	1055	256	77	1499
Game-trap	J. B. G. Donato	560,486	May 26	2773	636	75	1279
Gang-plank and conveyer. Combined	C. C. De Witt	558,361	Apr. 14	1491	366	75	299
Garbage, &c. Apparatus for cremating	O. D. McClellan	558,975	Apr. 28	2567	622	75	533
Garbage, &c. Apparatus for cremating	O. D. McClellan	558,976	Apr. 28	2568	623	75	534
Garbage, &c. Apparatus for cremating	O. D. McClellan	558,977	Apr. 28	2570	624	75	534
Garbage. Apparatus for treating	B. F. Howland	554,877	Feb. 18	1905	447	74	894
Garbage, &c. Apparatus for treating	O. D. McClellan	558,974	Apr. 28	2565	621	75	533
Garbage, &c. Apparatus for treating	E. L. Clark	565,669	Aug. 11	1323	319	76	882
Garbage. Apparatus for treatment of	W. S. Richardson	567,724	Sept. 15	1723	413	76	1630
Garbage-crematory	W. L. Johnson	556,420	Mar. 17	1714	399	74	14-2
Garbage drier or carbonizer	G. Taylor and M. B. McLauthlin	563,332	July 7	176	39	76	36
Garbage or rubbish receptacle	C. Arrick	569,990	Oct. 27	2233	530	77	460
Garbage. Process of and apparatus for treating	I. M. Simonin	573,714	Dec. 22	2934	693	77	1888
Garbage, &c. Process of and apparatus for treating	S. E. Wilson	567,210	Sept. 8	829	197	76	1450
Garbage-receptacle	J. A. Bowen	553,640	Jan. 28	2071	488	74	430
Garbage-receptacle	K. Hirsch	567,390	Sept. 8	1177	281	76	1511
Garden implement	D. Earl	553,485	Jan. 21	1787	426	74	362
Garden implement	S. Scott	562,248	June 16	2086	505	75	1807
Garden-rake	E. H. Snyder	567,364	Sept. 8	1134	272	76	1503
Garment	O. Van Oostrum	573,060	Dec. 15	1711	410	77	1643
Garment. Bicycle	M. Beck	565,066	Aug. 4	177	41, 42	76	650
Garment. Bicycle	E. F. McCartney	566,004	Aug. 18	1950	472	76	1021
Garment-clasp	R. W. Parramore	561,238	June 2	279	70	75	1421
Garment-clasp	W. V. Snyder	555,746	Mar. 3	443	105	74	1209
Garment-clasp	C. W. Stimson	554,742	Feb. 18	1657	391	74	847
Garment-clasp	J. V. Washburne	565,869	Aug. 11	1687	413	76	951
Garment-fastener	W. Janisch	564,693	July 25	2535	601	76	516
Garment-fastener	H. Kerngood	573,470	Dec. 22	2492	590	77	1804
Garment-fastener	O. Van Oostrum	573,057	Dec. 15	1707	400	77	1643
Garment-fastener	O. Van Oostrum	573,058	Dec. 15	1708	409	77	1643
Garment-fastener	O. Van Oostrum	573,059	Dec. 15	1709	409	77	1643
Garment-fastener	R. S. Wiesenfeld and L. B. Berner	562,997	June 30	3418	822	75	2097
Garment-fastening	W. F. Peet	570,267	Oct. 27	2736	650	77	557
Garment-fastening	S. Spangh	567,843	Sept. 15	1936	463	76	1671
Garment-hanger	A. C. Jäger	554,066	Feb. 4	473	106	74	591
Garment-hanger	A. Steinmann	566,034	Aug. 18	1991	482	76	1029
Garment-holder	J. Neumann	556,686	Mar. 17	2156	504	74	1565
Garment-holder	W. Nolan	565,023	Aug. 4	112	26	76	639
Garment-hook. Self-locking	E. F. and F. A. Smith	563,625	July 7	655	152	76	123
Garment-protector	P. Pearson	573,998	Dec. 29	3450	825	77	1997
Garment-stretcher	L. B. Cadmus	567,733	Sept. 15	1741	417	76	1634
Garment-stretching frame	A. E. Phelps	569,885	Oct. 20	2043	486	77	412
Garment-stretching frame	L. Raphael	557,603	Apr. 7	129	34	75	26
Garment-supporter	C. Behrend, Jr.	554,643	Feb. 18	1499	352	74	816
Garment-supporter	M. A. Farrington	571,222	Nov. 10	1427	333	77	932
Garment-supporter	C. E. Henderson	565,270	Aug. 4	608	144	76	727
Garment-supporter	M. E. Herron	569,919	Oct. 20	2105	501	77	424
Garment-supporter	G. B. Nichols	560,744	May 26	2580	594	75	1242
Garment-supporter	R. W. Parramore	567,195	Sept. 8	808	191	76	1447
Garment-supporter	J. H. Pilkington	560,642	May 26	2411	552	75	1209
Garment-supporter	R. M. Skinner	558,430	Apr. 14	1632	393	75	326
Garment-supporter	C. E. Stone	568,812	Oct. 6	170	41	77	34
Garment-supporter	M. A. Voise	566,947	Sept. 1	363	84	76	1352
Garment-supporter	B. Walter	554,609	Feb. 11	1433	336	74	787
Garment-supporter	W. G. Washburn	561,460	June 2	712	175	75	1584
Garment-supporter cast-off	G. E. Adams	563,540	July 7	515	119	76	97
Garment-supporter clasp	E. N. Gaillard	555,946	Mar. 10	796	191	74	1298
Garment-supporter clasp	A. Thomson and J. Drever	567,421	Sept. 8	1222	293	76	1519
Garter	B. Dreyfus	559,970	May 12	1137	254	75	913
Garter and belt	F. H. McClung, Jr.	569,511	Oct. 13	1368	320	77	274
Garter or other garment-holding device	E. Pickhardt	554,304	Feb. 11	909	210	74	689
Gas and air. Machine for mixing combustible	J. M. Mitchell	558,408	Apr. 14	1573	384	75	314
Gas and air mixer	W. D. Kennedy	562,619	June 23	2718	658	75	1941
Gas and air mixing apparatus	G. R. Cottrell	556,490	Mar. 17	1836	428	74	1507
Gas and electric fixture. Combination	J. E. and W. M. Brown	573,387	Dec. 15	2299	549	77	1751
Gas and electric-light fixture. Combined	L. Stieringer. (Reissue)	11,544	May 26	3161	731	75	1352
Gas and gasoline engine	L. J. Monahan and J. D. Termaat	561,123	June 2	77	21	75	1382
Gas and steam engine. Combined	R. E. Olds	570,263	Oct. 27	2729	649	77	555
Gas apparatus	F. G. Bates	573,958	Dec. 29	3368	806	77	1983
Gas apparatus	T. Hennessy	569,716	Oct. 20	1771	420	77	363

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Gas apparatus	L. Stevens	563,891	July 14	1145	{ 263 269 }	76	230
Gas apparatus. Automatic acetylene	E. N. Dickerson	561,208	June 2	237	57	75	1413
Gas apparatus. Differential indicator for	R. Norris	572,366	Dec. 1	497	117	77	1372
Gas. Apparatus for charging liquids with	C. W. Gibson	561,389	June 2	575	144	75	1481
Gas. Apparatus for charging liquids with	J. Schneible	571,694	Nov. 17	2219	{ 534 535 }	77	1093
Gas. Apparatus for generating acetylene	W. R. King and F. Wyatt	562,401	June 23	2340	571	75	1871
Gas. Apparatus for generating and storing acetylene	O. T. de Sieghardt	558,746	Apr. 21	2162	521	75	440
Gas. Apparatus for making	J. Fehrenbach	564,512	July 21	2220	521	76	440
Gas. Apparatus for manufacturing	J. M. Bosselaar and J. F. M. Van den Elshout	558,710	Apr. 21	2102	508	75	429
Gas. Apparatus for manufacturing	E. S. Hoyt and G. F. Speer	559,287	Apr. 28	3166	{ 764 765 }	75	645
Gas. Apparatus for manufacturing	J. A. Waters	554,326	Feb. 11	944	{ 217 218 }	71	694
Gas. Apparatus for manufacturing acetylene	J. H. Exley	569,708	Oct. 20	1757	417	77	360
Gas. Apparatus for manufacturing acetylene	G. J. Gray and W. F. Hitchcock	559,846	May 12	903	201	75	866
Gas. Apparatus for manufacturing fuel	C. Dellwik	570,382	Oct. 27	2971	704	77	600
Gas. Apparatus for treating illuminating	I. N. Knapp	565,464	Aug. 11	926	221	76	808
Gas apparatus. Vapor	G. H. Burrows	562,214	June 16	2032	491	75	1797
Gas brake. Liquefied	G. Sluder, G. Campbell, Jr., and G. D. Brown	568,214	Sept. 22	2603	{ 626 627 }	76	1807
Gas-burner	C. W. Buffington	565,878	Aug. 18	1704	417	76	970
Gas-burner	J. F. Burgess	574,018	Dec. 29	3482	831	77	2003
Gas-burner	L. Denayrouze	555,307	Feb. 25	2684	628	74	1055
Gas-burner	A. E. Derwiler	571,431	Nov. 17	1778	424	77	1012
Gas-burner	W. J. Dudley	568,130	Sept. 22	2464	592	76	1781
Gas-burner	F. R. Fennessy	558,902	Apr. 21	2432	592	75	491
Gas-burner	J. Friedlander	554,924	Feb. 18	1982	469	74	908
Gas-burner	P. Keller	569,155	Oct. 6	757	176	77	143
Gas-burner	H. Kuhfahl	571,902	Nov. 24	2627	623	77	1188
Gas-burner	R. P. Lotz	557,281	Mar. 31	3221	773	74	1-01
Gas-burner	J. F. McElroy	555,875	Mar. 3	657	157	74	1251
Gas-burner	G. H. Parsons	559,201	Apr. 28	3004	726	75	617
Gas-burner	P. Rohrbach	558,845	Apr. 21	2328	566	75	471
Gas-burner	A. Wanner, Jr.	567,870	Sept. 15	1973	473	76	1679
Gas-burner	E. M. Wescott	555,141	Feb. 25	2389	567	74	999
Gas burner. Acetylene	H. F. Fuller	571,875	Nov. 24	2565	608	77	1177
Gas-burner and grate-bar. Combined	L. C. Thiele	565,050	Aug. 4	148	35	76	645
Gas burner apparatus. Acetylene	H. F. Fuller	566,902	Sept. 1	284	66	76	1337
Gas-burner. Convertible	H. Sewall	568,002	Sept. 22	2215	534	76	1735
Gas-burner. Electric hand-lighting	G. J. Galbraith	562,891	June 30	3220	778	75	2055
Gas-burner. Electric hand-lighting	G. J. Galbraith	567,971	Sept. 22	2148	517	76	1724
Gas-burner. Electric hand-lighting	H. C. Thomson	562,937	June 30	3301	796	75	2071
Gas-burner for stoves, ranges, &c.	F. A. Magee	566,329	Aug. 25	2482	608	76	1137
Gas burner. Fuel	R. N. Oakman, Jr., and G. W. Morrison	562,089	June 16	1831	445	75	1758
Gas burner. Illuminating	H. S. Teal and W. S. Hamm	557,721	Apr. 7	348	82	75	67
Gas-burner. Incandescent	J. G. Hallas	556,628	Mar. 17	2072	485	74	1549
Gas-burner. Regenerative	A. H. Moses	554,946	Feb. 18	2016	477	74	914
Gas-burner. Safety	W. and L. W. Gates	569,668	Oct. 20	2019	{ 481 482 }	77	408
Gas-burner screen	J. Koch	557,833	Apr. 7	554	133	75	104
Gas-burner. Self-lighting	H. A. Kent	556,506	Mar. 17	1878	438	74	1514
Gas-burners. Automatic opening or closing device for	I. Harrison and A. M. Kilberg	553,238	Jan. 21	1362	331	74	284
Gas-burners. Device for lighting	L. H. A. Drueding	559,888	May 12	992	221	75	883
Gas-burners. Device for lighting	L. H. A. Drueding	566,746	Sept. 1	22	6	76	1284
Gas-burners. Electric igniting device for	G. F. Krieger	571,769	Nov. 24	2380	568	77	1142
Gas-burners. Making incandescent bodies for	O. Kroll	564,430	July 21	2098	76	76	417
Gas-burners. Manufacturing hoods or mantles for incandescent	W. L. Voelker	571,419	Nov. 17	1757	77	1008	
Gas-burners. Solution for illuminant mantles for Bunsen	W. and L. Hooker	573,513	Dec. 22	2557	77	1816	
Gas-collecting apparatus	F. G. Waller	570,357	Oct. 27	2928	696	77	591
Gas-compressor	A. Giesler	556,713	Mar. 17	2194	{ 512 513 }	74	1572
Gas-consumer and fuel-economizer	J. Price	559,602	May 5	429	102	75	766
Gas. Consuming hydrocarbon	T. L. Willson	573,377	Dec. 15	2283	77	1748	
Gas-controller. Prepayment	W. N. Willsted	559,737	May 5	643	155	75	805
Gas cut-off for railway-cars, &c. Automatic	S. F. Wilcox	563,111	June 30	3627	869	75	2136
Gas-distributing apparatus	R. L. Owen	573,996	Dec. 29	3448	825	77	1997
Gas, electric, or oil lights. Varying level and position of	R. H. Best	561,196	June 2	221	53	75	1410
Gas employed in displacing liquids. Process of and apparatus for reclaiming	J. F. Theurer	572,779	Dec. 8	1222	{ 296 297 }	77	1529
Gas-engine	C. W. Agerell and A. A. Williams	555,355	Feb. 25	2763	{ 647 648 }	74	1069
Gas-engine	C. D. Anderson	567,954	Sept. 22	2116	510	76	1719
Gas-engine. Incandescent	H. C. Baker	563,249	July 7	5	1, 2, 3	76	3
Gas-engine	H. G. Carnell	556,086	Mar. 10	1067	255	74	1347
Gas-engine	J. Charter, Jr.	573,762	Dec. 22	3007	{ 712 713 }	77	1902
Gas-engine	F. E. Culver	573,209	Dec. 15	1974	475	77	1692
Gas-engine	J. F. Daly and W. L. Corson	557,493	Mar. 31	3586	859	74	1872
Gas-engine	G. F. Eggerdinger and G. R. Swaine	561,774	June 9	1287	309	75	1639
Gas-engine	J. W. Eisenhuth	558,369	Apr. 14	1507	370	75	302
Gas engine	W. W. Grant	553,488	Jan. 21	1791	427	74	363
Gas-engine	H. C. Hart	569,918	Oct. 20	2103	501	77	424
Gas-engine	J. S. Klein	568,115	Sept. 22	2437	{ 585 586 }	76	1776
Gas-engine	C. A. Kunzel, Jr.	571,447	Nov. 17	1803	431	77	1017

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Gas-engine.....	G. W. Lamos.....	562,307	June 16	2183	{ 530 531	{ 75	1825
Gas-engine.....	G. W. Lewis.....	571,534	Nov. 17	1960	{ 466 467	{ 77	1045
Gas-engine.....	S. M. Miller.....	553,352	Jan. 21	1573	375	74	321
Gas-engine.....	F. C. Olin.....	569,386	Oct. 13	1154	275	77	236
Gas-engine.....	F. C. Olin.....	569,564	Oct. 13	1461	{ 345 346	{ 77	292
Gas-engine.....	F. C. Olin.....	571,495	Nov. 17	1888	{ 450 451	{ 77	1031
Gas-engine.....	H. L. Parker.....	560,920	May 26	2907	666	75	1304
Gas-engine.....	A. J. Pierce.....	564,643	July 28	2464	580	76	503
Gas-engine.....	E. Rappe.....	571,498	Nov. 17	1899	{ 452 453	{ 77	1034
Gas-engine.....	R. J. Rolfsen.....	570,649	Nov. 3	426	{ 101 102	{ 77	717
Gas-engine.....	G. A. Thode.....	568,814	Oct. 6	173	41	77	35
Gas-engine.....	C. J. Weinman and E. E. Euchen- hofer.....	555,717	Mar. 3	392	91, 92	74	1200
Gas-engine.....	C. J. Weinman and E. E. Euchen- hofer.....	555,791	Mar. 3	500	122	74	1221
Gas-engine.....	M. W. Weir.....	569,694	Oct. 20	1715	407	77	354
Gas-engine.....	H. A. Winter.....	567,432	Sept. 8	1241	{ 298 299	{ 76	1523
Gas-engine.....	H. A. Winter.....	569,530	Oct. 13	1396	{ 329 330	{ 77	279
Gas-engine.....	J. M. Worth.....	559,017	Apr. 28	2638	{ 642 643	{ 75	547
Gas-engine. Expansion.....	J. W. Eisenhuth.....	574,311	Dec. 29	4047	{ 961 962	{ 77	2106
Gas engine or motor. Electrically-controlled.....	G. L. Thomas.....	558,749	Apr. 21	2167	532	75	441
Gas-engine. Rotary.....	L. Gathmann.....	570,470	Nov. 3	51	12, 13	77	643
Gas-enricher.....	G. G. Schroeder.....	557,066	Mar. 24	2846	681	74	1714
Gas-fixtures. Bracket for attaching incandescent lights to compound.....	E. C. Howe.....	568,573	Sept. 29	3242	780	76	1941
Gas-fixtures. Electric-light attachment for.....	P. W. Remig.....	559,403	May 5	100	22	75	700
Gas from fermentation for carbonating beer, &c. Pro- cess of and apparatus for obtaining air-free car- bonic acid.....	J. F. Theurer and P. Fischer.....	554,352	Feb. 11	989	229	74	703
Gas-furnace. Regenerative.....	L. J. Lemaire.....	569,421	Oct. 13	1213	285	77	246
Gas-generating apparatus.....	C. Dellwik.....	570,383	Oct. 27	2973	705	77	600
Gas-generating apparatus.....	H. Eldridge.....	567,641	Sept. 15	1589	{ 382 383	{ 76	1603
Gas. Generating illuminating.....	W. C. Clarke.....	556,737	Mar. 24	2247	525	74	1600
Gas-generating machine.....	J. A. Enos.....	571,221	Nov. 10	1425	333	77	931
Gas-generating machine.....	U. A. Garred.....	568,672	Sept. 29	3434	822	76	1978
Gas-generator.....	H. J. Burt.....	563,219	June 30	3808	913	75	2170
Gas-generator.....	A. Dauber.....	570,008	Oct. 27	2265	538	77	466
Gas-generator.....	J. C. Dods.....	571,558	Nov. 17	2005	{ 476 477	{ 77	1052
Gas-generator.....	E. P. Harris.....	568,903	Oct. 6	315	73	77	61
Gas-generator.....	J. E. Hathaway.....	572,797	Dec. 8	1255	303	77	1536
Gas-generator.....	T. Hennessy.....	573,183	Dec. 15	1927	{ 462 463	{ 77	1624
Gas-generator.....	J. C. Porter.....	571,576	Nov. 17	2030	483	77	1058
Gas-generator.....	H. C. Sergeant.....	562,040	June 16	1739	421	75	1743
Gas-generator.....	F. H. Shelton.....	563,328	July 7	170	38	76	35
Gas-generator.....	L. and L. Stevens, Jr.....	563,892	July 14	1148	269	76	230
Gas-generator.....	F. Thuman.....	557,243	Mar. 31	3156	{ 756 757	{ 74	1790
Gas-generator.....	W. B. Vestal and S. W. Ray.....	554,630	Feb. 11	1480	346	74	796
Gas generator. Acetylene.....	A. S. Bucher.....	569,273	Oct. 13	957	229	77	198
Gas generator. Acetylene.....	H. F. Fuller.....	560,405	May 19	1950	445	75	1110
Gas generator. Acetylene.....	H. F. Fuller.....	566,901	Sept. 1	282	66	76	1336
Gas generator. Acetylene.....	W. P. and H. D. Hill.....	572,113	Dec. 1	30	8	77	1384
Gas generator. Acetylene.....	J. H. Morley.....	563,980	July 14	1305	305	76	258
Gas generator. Acetylene.....	J. H. Morley.....	563,981	July 14	1308	305	76	258
Gas generator. Acetylene.....	J. C. Porter.....	562,911	June 30	3250	785	75	2061
Gas generator. Acetylene.....	J. H. Waite.....	573,938	Dec. 29	3324	794	77	1975
Gas-generator. Automatic.....	O. G. Seward, O. E. Mille, and M. J. Ham.....	560,549	May 19	2192	500	75	1152
Gas-generator or vaporizer.....	G. C. Johnson.....	554,699	Feb. 18	1589	374	74	834
Gas generators. Device for charging hydrocarbon.....	A. B. Griffen.....	568,944	Oct. 6	388	88	77	74
Gas-generators. Fire-condition indicator for.....	H. K. Morrison.....	563,786	July 14	933	222	76	191
Gas-generators. Steam-distributor for.....	J. H. Baker.....	561,752	June 9	1242	294	75	1631
Gas-generators. Valve-locking mechanism for.....	E. N. Dickerson.....	560,784	May 26	2661	612	75	1257
Gas-governor.....	G. E. Ford.....	556,667	Mar. 17	2125	496	74	1559
Gas-governor.....	W. Hooper.....	556,465	Mar. 17	1799	417	74	1499
Gas-governor.....	T. O. Perry.....	557,696	Apr. 7	303	73	75	58
Gas-beater.....	J. W. Carter.....	573,205	Dec. 15	1969	474	77	1691
Gas-beater.....	C. Whittingham.....	554,355	Feb. 11	997	230	74	705
Gas-heater for carriages, &c.....	B. Janse and J. de Witte.....	569,286	Oct. 13	979	235	77	202
Gas heater or furnace.....	J. W. Baker.....	552,504	Jan. 7	5	2	74	4
Gas-holder.....	R. M. Dixon.....	567,764	Sept. 15	1791	430	76	1643
Gas-holder guide.....	H. Hacker.....	555,215	Feb. 25	2512	593	74	1022
Gas-igniter. Electric.....	J. P. Doyle.....	556,138	Mar. 10	1161	273	74	1364
Gas incandescent lights. Burner for spirit.....	A. Perlich.....	572,565	Dec. 8	838	201	77	1457
Gas-lighter. Electric.....	H. G. Grier.....	554,622	Feb. 11	1460	342	74	793
Gas-lighting apparatus. Electric.....	H. W. Brinckerhoff and H. C. Far- quharson.....	553,330	Jan. 21	1531	366	74	314
Gas-lighting apparatus. Electric.....	C. W. De Mott.....	571,723	Nov. 17	2276	546	77	1104
Gas-lighting apparatus. Electric.....	H. C. Farquharson.....	553,304	Jan. 21	1499	358	74	307
Gas-lighting apparatus. Electric.....	F. O. Plummer.....	562,850	June 30	3140	760	75	2039
Gas-lighting burner. Electric.....	W. E. Cram.....	569,785	Oct. 20	1890	448	77	384

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Gas-lighting burner. Electric	J. A. and G. A. O'Neill	555,968	Mar. 10	835	199	74	1306
Gas-lighting burner. Electric	J. E. Swendeman	552,594	Jan. 7	154	43	74	31
Gas-lighting device. Electric	J. B. Jackson	556,189	Mar. 10	1261	294	74	1382
Gas-lighting device. Electric	E. Schmidt	571,288	Nov. 10	1542	366	77	954
Gas-lighting. Electric igniter for	W. F. Rudolph	560,284	May 19	1736	395	75	1073
Gas-lighting. Electric igniter for	W. F. Rudolph	560,370	May 19	1885	430	75	1093
Gas-lighting. Luminous material for incandescent.	P. Barrière	567,571	Sept. 8	1461		76	1563
Gas-lighting or extinguishing apparatus	J. S. Connelly	566,445	Aug. 25	2743	665	76	1185
Gas-lighting safety appliance	F. and F. H. Engelhard	554,665	Feb. 18	1535	363	74	822
Gas-lights. Composition of material for incandescent.	L. K. Böhm	572,101	Dec. 1	12		77	1280
Gas-lights. Hood, &c., for incandescent	W. L. Voelker	562,442	June 23	2421		75	1886
Gas-lights. Material for and process of manufacturing hoods, &c., for incandescent	W. L. Voelker	562,441	June 23	2420		75	1886
Gas-lights. Process of and machine for making mantles or hoods for incandescent	P. Inch	571,372	Nov. 17	1682	398	77	994
Gas-lights. Process of and material for manufacturing hoods for incandescent	W. L. Voelker	566,040	Aug. 18	1999	484	76	1031
Gas machine. Air-	C. M. Kemp	564,429	July 21	2095	490 491	76	416
Gas-machines. Air-forcing device for	J. H. Graf	564,786	July 28	2710	644	76	546
Gas. Making	A. W. Wilkinson	566,363	Aug. 25	2558	625	76	1151
Gas. Making and consuming	T. L. Willson	555,198	Feb. 25	2490		74	1019
Gas-making apparatus	W. Clark and R. Norris	552,889	Jan. 14	741	181	74	153
Gas-making apparatus. Cupola	J. M. Rose	552,587	Jan. 7	143	39, 40	74	29
Gas. Manufacture of illuminating	C. D. Hauk	560,990	May 26	3010	693 694	75	1324
Gas. Manufacture of illuminating	C. D. Hauk	572,703	Dec. 8	1083	263 264	77	1504
Gas. Manufacturing	J. L. Janeway	571,269	Nov. 10	1512	357 358	77	948
Gas. Manufacturing	A. W. Wilkinson	556,910	Mar. 24	2552	601	74	1656
Gas. Manufacturing	A. W. Wilkinson	556,911	Mar. 24	2553	601	74	1656
Gas-manufacturing apparatus	P. Brentini	571,062	Nov. 10	1147	268	77	881
Gas-manufacturing apparatus	G. H. Gregory	572,795	Dec. 8	1251	303	77	1535
Gas-manufacturing apparatus	T. G. McEwen	562,412	June 23	2356	576	75	1873
Gas. Manufacturing carbonic-acid	H. Lane and J. Pullman	556,991	Mar. 24	2684	633	74	1681
Gas. Manufacturing carbonic-acid	B. T. L. Thomson	573,053	Dec. 15	1702	408	77	1642
Gas. Manufacturing hydrocarbon	T. L. Willson	563,528	July 7	496		76	94
Gas mediums. Manufacture of self-igniting	J. F. Duke	554,249	Feb. 11	813	185	74	670
Gas-meter	J. Dodd	573,399	Dec. 15	2316	554	77	1754
Gas-meter	E. D. Mitchell and J. Hearne	555,786	Mar. 3	491	118	74	1219
Gas-meter and gas-regulator. Combined	J. Coons	573,863	Dec. 29	3195	761	77	1951
Gas-meter. Automatic	C. G. Beechey	556,299	Mar. 10	1490	346	74	1424
Gas-meter. Coin-freed	J. Anderson	567,440	Sept. 8	1256	303	76	1526
Gas-meter. Dry	F. Wright	572,924	Dec. 8	1466	352	77	1579
Gas-mixer	E. N. Dickerson	565,157	Aug. 4	387	90	76	689
Gas mixer. Natural	J. B. Knickerbocker	561,404	June 2	605	151	75	1485
Gas-mixing apparatus	R. G. Kirkwood	571,196	Nov. 10	1386	323	77	924
Gas-mixing device	E. N. Dickerson	564,684	July 28	2526	597	76	514
Gas, oil, and water separator	A. P. McBride	569,345	Oct. 13	1092	259	77	225
Gas, oil, or vapor engine	F. S. Mead	563,670	July 7	733	173	76	138
Gas or hydrocarbon burner and furnace	C. H. Land	553,993	Feb. 4	348	77	74	569
Gas or oil burner	G. Palm	556,104	Mar. 10	1097	261	74	1352
Gas or oil engine	A. W. Bodell	563,548	July 7	526	122	76	100
Gas or oil engine	J. Robison	565,033	Aug. 4	126	30	76	641
Gas or oil engine	H. Swain	564,769	July 28	2680	637	76	541
Gas or oil engine	P. A. N. Winand	563,535	July 7	505	118	76	96
Gas or oil motor engine	F. W. Crossley and J. Atkinson	555,898	Mar. 3	703	169 170	74	1260
Gas or petroleum engine or motor	B. Wolf	566,263	Aug. 18	2359	578	76	1098
Gas or vapor. Device for regulating the flow of	O. P. Moon	562,410	June 23	2354	575	75	1873
Gas or vapor engine	W. W. Grant	553,460	Jan. 21	1737	415 416	74	353
Gas or vapor engine	F. W. Mellars	556,195	Mar. 10	1272	297	74	1384
Gas or vapor engine	R. E. Olds and M. F. Bates	565,786	Aug. 11	1531	373	76	921
Gas or vapor engine	G. S. Tiffany	573,628	Dec. 22	2779	658	77	1861
Gas or water switch	S. W. Garrison	573,403	Dec. 15	2321	555	77	1754
Gas pipes or connections. Apparatus for closing or opening	C. Weuste	555,795	Mar. 3	513	124	74	1223
Gas pipes or tubes. Device for supporting flexible	E. J. Allen	565,418	Aug. 11	846	199	76	793
Gas-pipes. Pressure-alarm for	F. S. Baker	557,534	Apr. 7	3	1	75	3
Gas-pressure regulator. Automatic	K. M. Stahl	572,838	Dec. 8	1319	316	77	1549
Gas. Process of and apparatus for burning liquefied	E. N. Dickerson	555,149	Feb. 25	2402	570	74	1002
Gas. Process of and apparatus for generating	E. T. Turney	556,115	Mar. 10	1118	266	74	1356
Gas. Process of and apparatus for making	W. F. Browne	554,236	Feb. 11	787	181	74	665
Gas. Process of and apparatus for making	L. Stevens	570,516	Nov. 3	141	35	77	664
Gas. Process of and apparatus for manufacturing	F. G. Bates	573,957	Dec. 29	3361	806	77	1982
Gas. Process of and apparatus for manufacturing	M. Lorois and F. G. Bates	573,989	Dec. 29	3436	823	77	1994
Gas. Process of and apparatus for manufacturing	H. M. Pierson	558,740	Apr. 21	2155	519 520	75	438
Gas. Process of and apparatus for producing illuminating	E. N. Dickerson	555,212	Feb. 25	2508	592	74	1021
Gas-producer	E. J. Duff. (Reissue)	11,523	Jan. 28	2373	565	74	487
Gas-producer	J. D. Swindell	557,171	Mar. 31	3001	715 716	74	1765
Gas-producer	J. D. Swindell	572,184	Dec. 1	155	38	77	1307
Gas-producer	W. J. Taylor	565,048	Aug. 4	146	34	76	645
Gas-producer. Acetylene	E. N. Dickerson	563,457	July 7	373	86	76	72
Gas-producer safety device	G. E. Woods	570,149	Oct. 27	2516	597	77	515
Gas. Producing	E. Thomson	564,806	July 28	2741	652	76	552
Gas. Producing acetylene	E. N. Dickerson	561,701	June 9	1149	273	75	1613
Gas-producing apparatus	E. N. Dickerson	553,781	Jan. 28	2300	546	74	474
Gas-producing apparatus	C. W. Pinkney	568,038	Sept. 22	2284	553	76	1748
Gas. Producing illuminating	T. L. Willson	553,550	Jan. 28	1910		74	402

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Gas-reaction apparatus. Electrical	A. A. Naville and P. A. and C. E. Guye.	569,122	Oct. 6	691	161	77	132
Gas-regulator	M. J. Amick	572,044	Nov. 24	2861	673	77	1233
Gas-regulator	J. S. Connelly	564,047	July 14	1438	334	76	282
Gas-regulator	A. Fröhlich	566,977	Sept. 1	428	100	76	1362
Gas-regulator	T. Gordon	562,131	June 16	1895	459	75	1771
Gas-regulator	A. A. Pindstoffe	562,340	June 16	2252	545	75	1837
Gas-regulator	W. E. H. Williams	563,436	July 7	342	77	76	67
Gas-tube tip.	A. Caldwell	566,136	Aug. 18	2165	527	76	1060
Gas-vending apparatus. Automatic	J. Fox	565,383	Aug. 4	784	186 187	76	762
Gas-wells. Purifying attachment for	F. A. W. Davis	560,783	May 26	2660	611	75	1257
Gases. Apparatus for consuming waste	F. Nevegold	554,293	Feb. 11	889	204	74	684
Gases. Apparatus for separating	V. Drewsen	565,263	Aug. 4	598	141	76	725
Gases. Apparatus for treating fire	J. Patterson	572,177	Dec. 1	145	36	77	1305
Gases evolved in furnaces. Blower for treating	J. Patterson	572,178	Dec. 1	147	36	77	1305
Gases evolved in steam-boilers, &c. Apparatus for treating fire	J. Patterson	572,176	Dec. 1	143	34, 35	77	1305
Gases. Metallic vessel for compressed	A. W. Browne	555,300	Feb. 25	2670	625	74	1052
Gaseller.	H. Arnhold	569,076	Oct. 6	618	140	77	118
Gasolene or vapor engine	E. Prouty	570,500	Nov. 3	115	28, 29	77	659
Gate:							
See Automatic gate.	Fluid-controlled gate.						
Bridge-gate.	Flume-gate.						
Bridge-approach gate.	Nursery-gate.						
Car-gate.	Railway-gate.						
Drive-gate.	Railway-crossing gate.						
Elevator-gate.	Railway guard-gate.						
Elevatorsafety-gate.	Roller-gate.						
End-gate.	Safety-gate.						
Farm-gate.	Sliding gate.						
Fence-gate.	Sliding and swinging gate.						
Flood-gate.	Swinging gate.						
Wire gate.							
Gate	J. Anderson	556,171	Mar. 10	1224	286	74	1376
Gate	C. Atwood	560,674	May 26	2468	565	75	1220
Gate	A. H. Barnhill and T. I. Thurman	570,362	Oct. 27	2935	697	77	393
Gate	O. M. Blood	552,683	Jan. 7	325	86	74	63
Gate	H. G. Bowman	571,081	Nov. 10	1190	279	77	888
Gate	D. W. Brooks	557,763	Apr. 7	437	103	75	82
Gate	F. V. Burner	555,427	Feb. 25	2893	688	74	1094
Gate	D. R. Burnham	570,198	Oct. 27	2603	619	77	532
Gate	H. D. Butcher and J. M. John	557,550	Apr. 7	30	9	75	8
Gate	J. H. Christopher	560,776	May 26	2646	607 608	75	1254
Gate	L. Clark	567,535	Sept. 8	1397	336	76	1552
Gate	L. Clark	569,858	Oct. 20	2006	478 479	77	406
Gate	A. L. Cooper and F. A. Colver	557,491	Mar. 31	3583	858	74	1872
Gate	J. W. Cottle	567,222	Sept. 8	848	201	76	1454
Gate	A. Davison	572,475	Dec. 1	675	161	77	1407
Gate	C. G. Deloye	561,870	June 9	1448	340	75	1668
Gate	R. D. Emrick	560,124	May 12	1433	322	75	967
Gate	E. H. R. Evans	557,305	Mar. 31	3258	781	74	1808
Gate	J. F. Ferris and W. M. Thomas	567,026	Sept. 1	628	145	76	1401
Gate	W. T. Foster	566,899	Sept. 1	279	65	76	1335
Gate	J. A. Freese	558,060	Apr. 14	1002	244	75	205
Gate	W. M. Garretson	554,674	Feb. 18	1550	366	74	826
Gate	D. H. Good	554,180	Feb. 4	600	156 157	74	632
Gate	W. Harley	555,003	Feb. 18	2126	506	74	934
Gate	W. W. Hatfield	555,808	Mar. 3	531	128	74	1227
Gate	W. Heaton	564,071	July 14	1470	345	76	289
Gate	W. H. Hefner	559,799	May 12	778	187	75	843
Gate	E. E. Higgins	556,887	Mar. 24	2511	592	74	1649
Gate	E. G. Holder	564,281	July 21	1845	432	76	371
Gate	C. E. Holmes	564,999	Aug. 4	69	16	76	630
Gate	J. W. Horn and M. Early	562,826	June 30	3100	751	75	2031
Gate	J. H. Johnson	557,584	Apr. 7	102	26	75	21
Gate	J. H. Johnson	567,101	Sept. 1	655	152	76	1406
Gate	E. Kaiser	552,764	Jan. 7	421	119	74	91
Gate	W. Kennedy	568,688	Sept. 29	3462	828	76	1983
Gate	W. M. Kincaid	558,082	Apr. 14	1033	252	75	212
Gate	O. Larson	552,690	Jan. 7	335	89	74	66
Gate	P. M. Linguist	558,188	Apr. 14	1202	293	75	245
Gate	M. C. Malter	567,908	Sept. 15	2024	485	76	1689
Gate	P. Mast	566,331	Aug. 25	2484	609	76	1138
Gate	E. C. Moore	568,785	Oct. 6	128	30	77	26
Gate	A. Parrish	566,616	Aug. 25	2994	731	76	1234
Gate	H. V. Philpott	571,237	Nov. 10	1457	342	77	937
Gate	J. W. Putt	560,643	May 26	2412	552	75	1209
Gate	W. P. Randall	559,909	May 12	1037	230	75	891
Gate	J. W. Reynolds	567,772	Sept. 15	1801	432	76	1645
Gate	J. W. Showalter and J. N. Carver	571,140	Nov. 10	1304	303	77	908
Gate	J. Simpson	564,113	July 14	1550	364 365	76	305
Gate	M. T. Stauffer and J. L. Tolson	566,482	Aug. 25	2805	682 683	76	1197
Gate	R. G. Stingley	562,102	June 16	1852	449 450	75	1763
Gate	W. G. Stone	554,800	Feb. 18	1756	413	74	865
Gate	I. H. Swink	572,228	Dec. 1	240	57	77	1324
Gate	I. Unger	553,142	Jan. 14	1187	288	74	239
Gate	G. Warner	557,921	Apr. 7	699	168	75	132

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Gate	W. W. Wert	562,105	June 16	1856	450	75	1763
Gate	W. R. White	553,662	Jan. 28	2105	498	74	436
Gate	W. R. White	566,104	Aug. 18	2114	515	76	1051
Gate	W. Wise	553,602	Jan. 28	2004	474	74	419
Gate	L. R. Witherell and M. L. Eldridge	564,676	July 28	2511	594	76	512
Gate	G. Yellott	566,112	Aug. 18	2125	517	76	1053
Gate	R. J. Young	574,296	Dec. 29	4026	956	77	2102
Gate attachment	A. Heim	553,283	Jan. 21	1460	351	74	301
Gate-governor. Automatic.	A. L. Adams	552,919	Apr. 28	2475	602	75	515
Gate-lock	G. L. Burrows, Jr.	558,547	Apr. 21	1821	443	75	378
Gate-opener	W. A. Carson	568,402	Sept. 29	2923	703	76	1883
Gate-operating mechanism	W. R. White	552,943	Jan. 14	856	207	74	174
Gate-operating mechanism. Electric	F. J. Dyett	557,497	Mar. 31	3597	861	74	1874
Gate or door hook	J. M. Proctor	572,446	Dec. 1	634	150	77	1398
Gate-spring	J. J. Larimer	572,899	Dec. 8	1403	340	77	1566
Gates, barn-doors, &c. Device for opening or closing.	A. J. Shrope	570,412	Oct. 27	3034	719	77	611
Gathering and loading apparatus	J. J. Kulage	568,770	Oct. 6	102	24, 25	77	22
Gear-changing mechanism	I. N. Berezovsky	566,963	Sept. 1	389	91	76	1356
Gear. Compensating.	G. A. Anderson	555,295	Feb. 25	2663	623	74	1050
Gear-cutting machine	T. J. Lindsay	572,207	Dec. 1	192	47, 48	77	1315
Gear-cutting machine	A. Mertes	553,037	Jan. 14	996	242	74	200
Gear-cutting machine	E. J. O'Connor	563,301	July 7	112	27, 28	76	24
Gear. Equalizing.	C. C. Burton	571,187	Nov. 10	1371	320	77	922
Gear for cylinders or other apparatus operated by motive fluids. System of distributing.	J. T. F. Conti	554,111	Feb. 4	576	130	74	609
Gear for hoists, &c. Combined starting, stopping, and reversing	A. D. Dobson	557,776	Apr. 7	456	107	75	86
Gear for motorcycles	G. H. Ellis and J. F. Steward	570,203	Oct. 27	2611	620	77	534
Gear. Reversing.	B. L. Rinehart and B. M. Turner	567,005	Sept. 1	482	111	76	1373
Gear-teeth. Machine for generating	H. C. Warren	559,011	Apr. 28	2622	639	75	544
Gear. Tread.	H. Ganswindt	562,956	June 30	3358	807	75	2084
Gear-wheel. Expansion	O. M. Mattfeldt and H. H. Lurssen	568,623	Sept. 29	3337	799	76	1959
Gearing	W. I. Bunker	562,704	June 23	2856	694	75	1967
Gearing	F. A. Curtis	570,698	Nov. 3	522	122	77	735
Gearing	F. H. Richards	573,620	Dec. 22	2741	651	77	1852
Gearing	F. J. Woods	570,974	Nov. 10	998	231	77	852
Gearing. Chain	C. Terrot	563,096	June 30	3601	863	75	2131
Gearing. Changeable	F. H. Lefroy	556,852	Mar. 24	2442	573	74	1636
Gearing. Cone	J. H. Buckley	560,774	May 26	2643	607	75	1253
Gearing. Friction	B. Holmes	560,130	May 12	1443	325	75	969
Gearing. Frictional	F. F. Landis	562,624	June 23	2727	662	75	1943
Gearing. Variable	D. M. Scheffer	552,551	Jan. 7	81	22	74	18
Gem-setting.	D. W. Costigan	573,139	Dec. 15	1857	447	77	1671
Gem-setting machine	C. H. Field	562,292	June 16	2157	524	75	1820
Generator:							
See Acetylene-generator.	Magneto-generator.						
Alternating generator.	Magneto-electric generator.						
Ammonia-gas generator.	Monocyclic generator.						
Current-generator.	Motor-generator.						
Electric generator.	Polyphase generator.						
Gas-generator.	Power-generator.						
Hot-water generator.	Steam-generator.						
Hydrocarbon-generator.	Thermo-electric generator.						
Generator.	E. Hayes	571,762	Nov. 24	2369	566	77	1140
Generator.	J. J. Marchant	566,203	Aug. 18	2272	555	76	1081
Generator.	J. F. Pease	554,456	Feb. 11	1174	273	74	738
Generator.	W. J. Ranton	560,818	May 26	2707	622	75	1267
Generator. Constant-potential alternating	W. K. Freeman	555,152	Feb. 25	2406	571	74	1002
Generators in multiple. Running compound-wound.	W. B. Potter	559,907	May 12	1035	229	75	890
Gig-mill.	N. H. Grosselin	557,991	Apr. 7	827	196	75	156
Gill-bar support	D. A. Dugan	560,696	May 26	2508	576	75	1228
Gin-saw filer and gummer.	A. P. Gathright	561,580	June 9	931	222	75	1571
Gin-saw-filing machine.	G. N. Anthoine	566,646	Aug. 25	3031	741	76	1242
Gin-saw-sharpening machine.	J. D. Cromer	553,450	Jan. 21	1723	411	74	351
Girdle. Bust.	L. G. Stitt	572,621	Dec. 8	938	228	77	1476
Glass-annealing apparatus. Plate.	J. A. Chambers	559,361	May 5	19	5, 6	75	684
Glass-annealing furnace.	J. George	569,279	Oct. 13	965	231	77	200
Glass articles. Apparatus for forming	J. Proeger	566,469	Aug. 25	2783	677	76	1193
Glass articles. Conveyor for	E. H. Everett and A. Samuelson	570,626	Nov. 3	386	91, 92	77	709
Glass articles. Method of and apparatus for cutting off	F. Woodruff	566,436	Aug. 25	2693	657	76	1178
Glass articles while being finished. Clutch for holding	W. J. Wilkinson	571,255	Nov. 10	1484	349	77	942
Glass-blower. Mechanical	M. J. Owens	570,879	Nov. 3	838	195	77	795
Glass-blowing apparatus	F. Altenbaugh	557,298	Mar. 31	3248	779	74	1806
Glass-blowing machine	S. O. Richardson, Jr.	570,881	Nov. 3	842	197	77	796
Glass bottles, &c. Machine for manufacturing	C. E. Blue	567,071	Sept. 1	596	139	76	1396
Glass bottles, &c. Machine for manufacturing	C. Emmet	567,739	Sept. 15	1754	420	76	1636

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Glass bottles, &c. Tool for finishing	A. S. Lambert and E. Hoffman	568,772	Oct. 6	106	25	77	22
Glass. Composition for	K. H. Dangler	572,968	Dec. 15	1558		77	1613
Glass-conveying mechanism	J. H. Lubbers	555,048	Feb. 18	2223	530 531 532	74	950
Glass-cutter	A. D. Goodell	557,200	Mar. 31	3072	736	74	1775
Glass-cutter	W. J. Miller	565,493	Aug. 11	1012	244	76	823
Glass-finishing apparatus	S. G. Vogeley	558,537	Apr. 21	1810	439 440	75	376
Glass-finishing machine	S. G. Vogeley	558,536	Apr. 21	1809	439	75	376
Glass from flattening ovens. Conveyer for carrying	T. A. Zellers and S. R. Blanchard	573,318	Dec. 15	2186	532	77	1729
Glass-holder	M. Dawes	556,337	Mar. 17	1556	364	74	1452
Glass-holding snap	J. E. Miller	572,308	Dec. 1	395	94	77	1353
Glass jars. Manufacture of	A. Kribs	564,825	July 28	2771	659	76	557
Glass. Machine for embedding wire in	F. Shuman	561,920	June 9	1526	370	75	1683
Glass. Manufacture of wire	C. S. Weber	555,351	Feb. 25	2756	645	74	1068
Glass. Means for working	H. Hilde	567,236	Sept. 8	872	208 209	76	1458
Glass. Method of and apparatus for manufacturing wire and sheet	W. E. Smith	560,759	May 26	2602	599 600	75	1246
Glass. Method of and apparatus for testing	W. Hoskins	552,641	Jan. 7	232	64	74	45
Glass-mold dipping and opening apparatus	T. Coleman, Jr., and C. Runyon	560,974	May 26	2890	686	75	1320
Glass-molds. Dipping apparatus for paste	E. Robinson	570,735	Nov. 3	588	135	77	746
Glass or lens for spectacles or folders	L. Kokocinski	564,894	July 28	2882	691	76	578
Glass-ornamenting machine	J. Holbrook	555,164	Feb. 25	2424	575	74	1066
Glass-polishing machine	E. J. Hoffman	560,797	May 26	2679	615	75	1260
Glass-polishing machine	E. J. Hoffman	571,564	Nov. 17	2013	479	77	1054
Glass-polishing wheels. Automatic feeding-up device for	T. F. Gilroy	559,699	May 5	587	138 139	75	794
Glass-press	A. Kaul	553,679	Jan. 28	2133	508	74	441
Glass-press	C. Kuhlwind	561,056	May 26	3122	720 721	75	1345
Glass-shaping machine	A. J. Sanford	566,803	Sept. 1	113	28	76	1302
Glass-sheet leer	J. H. Lubbers	555,047	Feb. 18	2222	540	74	950
Glass-tank furnace	W. F. Modes and A. J. Ugel	563,293	July 7	101	24	76	21
Glass-tank furnace	M. L. Murphy	555,964	Mar. 10	831	197 198	74	1305
Glassware. Machine for manufacturing	J. R. Bridges	557,105	Mar. 31	2881	688 689	74	1743
Glassware. Method of and apparatus for making hollow	C. V. Arbogast	568,287	Sept. 22	2725	653	76	1831
Glasses or analogous articles. Marking level	J. A. Traut and C. Bodmer	562,679	June 23	2812	683	75	1959
Glasses or tubes. Machine for graduating	J. A. Traut and C. Bodmer	562,678	June 23	2809	682	75	1958
Glazed structure	W. H. Coulson	560,059	May 12	1311	294	75	943
Globe and chimney support	E. S. Butler	554,051	Feb. 4	452	100	74	587
Globe and making same	T. Jones	553,409	Jan. 21	1863	397	74	339
Globe-holder and ash-pan. Combined	T. E. Adams	568,223	Sept. 22	2622	630	76	1811
Globe or chimney	A. G. Borry	556,083	Mar. 10	1062	253	74	1346
Glove	J. H. Clark	559,679	May 5	555	129	75	788
Glove	J. Comrie	573,447	Dec. 23	2447	581	77	1796
Glove	D. L. Engel	558,604	Apr. 21	1923	467	75	396
Glove	L. Lichtenhein	566,589	Aug. 25	2956	721	76	1227
Glove	J. H. Loewenstine	556,581	Mar. 17	2000	467	74	1536
Glove	D. F. Morgan	567,749	Sept. 15	1770	425	76	1639
Glove, boot, or apparel fastener	J. Freund and L. Sappey	573,401	Dec. 15	2319	554	77	1754
Glove. Boxing	F. A. Harvey	570,092	Oct. 27	2422	575	77	497
Glove-case	A. W. Vess and H. C. Kenney	559,068	Apr. 28	2723	662	75	562
Glove-fastener	G. E. Adams	558,580	Apr. 21	1882	456	75	388
Glove-fastener	G. E. Adams	566,731	Sept. 1	1	1	76	1281
Glove-fastener	J. B. Chase	558,012	Apr. 7	896	225	75	168
Glove-fastener	G. H. Moller	553,866	Feb. 4	93	20	74	523
Glove-fastener	P. E. L. Perdrizet	565,560	Aug. 11	1127	272	76	844
Glove-fastener	W. S. Richardson	557,704	Apr. 7	317	76	75	60
Glove-fastener	W. S. Richardson	566,338	Aug. 25	2497	613	76	1140
Glove-fastener	W. S. Richardson	566,699	Aug. 25	3124	764	76	1258
Glove-fastener	W. S. Richardson	572,566	Dec. 8	839	201	77	1457
Glove-fastener	W. S. Richardson	573,188	Dec. 15	1939	467	77	1625
Glove-fastener	F. T. Simmons	561,623	June 9	1005	242	75	1585
Glove-fastener	W. W. Whitaker	554,100	Feb. 4	50	122	74	604
Glove-fastening	P. E. L. Perdrizet	574,042	Dec. 29	3528	842	77	2012
Glove-holder	E. R. Nablo	573,232	Dec. 15	2020	485	77	1700
Gloves, &c. Fastener for	W. S. Richardson	566,340	Aug. 25	2501	613	76	1141
Gloves, &c. Fastening for	W. S. Richardson	557,703	Apr. 7	316	76	75	60
Glucose or sugar from starch. Apparatus for manufacturing	C. Pope	570,183	Oct. 27	2576	612	77	527
Glue heater	J. T. Towsley	553,946	Feb. 4	265	58	74	554
Glue joints. Machine for making	W. D. Kenzie	556,679	Mar. 17	2144	500 501 183 184 185 186	74	1563
Glue. Process of and apparatus for making	C. W. Cooper	552,894	Jan. 14	753	184 185 186	74	155
Glue. Testing tenacity of	G. Seeligmann	552,731	Jan. 7	416	106	74	80
Gluing-clamp	T. C. Hansen	553,063	Jan. 14	1045	254	74	210
Gluing machine. Shuck	W. F. Hutchinson	571,321	Nov. 10	1598	379	77	965
Gluing mechanism	H. E. Smyser	560,009	May 12	1207	269	75	925
Gluing or pasting sheets of paper. Machine for	H. Inman	558,955	Apr. 28	2531	614	75	526
Glycerin. Purifying candle crude	J. Van Ruynebeke	558,441	Apr. 14	1643		75	328
Goffering velvet. Machine for	V. Crépet	560,479	May 19	2080	474	75	1133
Gold and silver bullion. Refining	B. Hunt	571,369	Nov. 17	1679		77	994
Gold and silver from ore. Apparatus for extracting	P. Danckwardt	566,894	Sept. 1	268	62	76	1333
Gold and silver from ores, &c. Extracting	D. R. S. Galbraith	553,115	Jan. 14	1149		74	230
Gold and silver from ores. Extracting	J. S. McArthur and C. J. Ellis	555,463	Feb. 25	2968		74	1107

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Gold and silver from their ores. Electrolytic apparatus for extracting	L. Pelatan and F. Clerici.....	568,099	Sept. 22	2411	581	76	1771
Gold and silver from their ores. Extracting.....	L. Pelatan and F. Clerici	567,503	Sept. 8	1353	326	76	1544
Gold-collecting apparatus. Automatic.....	J. R. Brown	568,657	Sept. 29	3411	815	76	1972
Gold. Extracting	H. R. Cassel	568,427	Sept. 29	2964	712	76	1890
Gold. Extracting	B. C. Hinman	569,334	Oct. 13	1070	253	77	221
Gold from its ores. Process of and apparatus for extracting	J. G. Murphy.....	559,593	May 5	409	99	75	762
Gold from its ores. Process of and apparatus for extracting	L. Pelatan and F. Clerici	553,816	Jan. 28	2362	562	74	485
Gold from sand, &c. Apparatus for separating.....	J. Marshall	568,913	Oct. 6	331	76	77	64
Gold from solutions. Extracting	G. O. Pearce	556,690	Mar. 17	2161	505	74	1566
Gold from substances containing it. Extracting	H. R. Cassel	568,741	Oct. 6	45	11	77	12
Gold. Obtaining	H. A. Hunnicke	560,997	May 26	3023	697	75	1326
Gold or silver. Apparatus for electrodeposition of	E. Andreoli.....	568,724	Oct. 6	1	1	77	3
Gold or silver from refractory ores. Process of and apparatus for recovering	W. A. Koneman	560,413	May 19	1964	449	75	1113
Gold separating and saving apparatus.....	J. Mait	563,046	June 30	3492	839	75	2111
Gold-separating machine.....	J. H. Shufelt	556,779	Mar. 24	2336	550	74	1615
Gold-separator	A. Derrenberger	554,912	Feb. 18	1960	461	74	904
Gold washer. Alluvial.....	J. Miller	569,113	Oct. 6	675	158	77	129
Gold-washing machine.....	E. J. Cowley	563,021	June 30	3458	831	75	2104
Golf-club.....	E. Slade	564,655	July 28	2479	535	76	506
Golf-club.....	D. I. and R. L. Urquhart	569,438	Oct. 13	1239	291	77	251
Golf-club head	W. Mills	572,436	Dec. 1	620	147	77	1396
Golf-driver.....	W. R. Briggs.....	556,042	Mar. 10	980	234	74	1331
Golf-driver.....	W. R. Briggs.....	556,043	Mar. 10	982	235	74	1332
Golf-stick	H. R. Sweny	566,101	Aug. 18	2107	514	76	1050
Golf-tee and score-card. Combined	P. L. Senat	570,821	Nov. 3	727	166	77	773
Golfing appliance	D. Dalziel	567,455	Sept. 8	1277	309	76	1529
Gong. Ceremonial	E. B. Quick	556,208	Mar. 10	1291	302	74	1387
Governor	W. T. Davis	570,461	Nov. 3	36	8	77	645
Governor	D. C. Tower	563,433	July 7	337	76	76	66
Governor	F. J. Weiss	560,450	May 19	2032	464	75	1125
Governor. Automatic.....	R. M. Macdonald	559,181	Apr. 28	2965	716	75	608
Governor. Centrifugal.....	E. Huber	553,852	Feb. 4	72	15	74	518
Governor. Electric	K. B. Miller	559,187	Apr. 28	2974	719	75	610
Governor. Electrical	M. A. Replogle	565,032	Aug. 4	124	30	76	641
Governor. Engine.....	W. Dennis	559,054	Apr. 28	2700	657	75	558
Governor. Feed-regulator.....	K. Dougan	558,900	Apr. 21	2426	591	75	490
Governor for fluid-motors	D. Richardson	556,476	Mar. 17	1811	421	74	1501
Governor for gas or gasoline engines	S. D. Shepperd	556,907	Mar. 24	2548	600	74	1655
Governor for motors	T. J. Butler	568,517	Sept. 29	3143	758	76	1922
Governor for power-shafts	W. H. McFadden	574,209	Dec. 29	3878	923	77	2073
Governor. Gas-engine.....	J. W. Lambert	571,443	Nov. 17	1806	431	77	1018
Governor. Motor.....	C. G. P. de Laval	569,834	Oct. 20	1965	467	77	398
Governor. Pressure.....	J. St. Mary	558,999	Apr. 28	2604	634	75	540
Governor. Resistance.....	O. Sendtner	568,045	Sept. 22	2297	557	76	1750
Governor. Steam-engine	E. J. Armstrong	570,307	Oct. 27	2852	676	77	577
Governor. Steam-engine	W. W. Grimes	560,709	May 26	2523	579	75	1231
Governor. Steam-engine	H. H. Lane	553,918	Feb. 4	221	47, 48	74	546
Governor. Steam-engine	F. S. Wilcox	566,640	Aug. 25	3025	739	76	1241
Governor stop-motion	B. J. Lindgren and A. H. Whatley	563,862	July 14	1087	256	76	4-5
Grab-hook. Spring	E. Dobbins	566,447	Aug. 25	2747	666	76	1186
Grade-delineator	O. F. Sonne	573,717	Dec. 22	2941	695	77	1889
Grader and ditcher. Road.....	D. Harmon	561,988	June 16	1614	400	75	1725
Grader. Road.....	J. Heuermann	556,313	Mar. 10	1511	351	74	1429
Grader. Road.....	J. M. Holland	555,095	Feb. 25	2311	549	74	984
Grader. Road.....	J. W. Macy	561,264	June 2	314	79	75	1429
Grading and ditching machine	C. J. and A. B. Corey and E. O. Watkins	559,165	Apr. 28	2937	709	75	603
Grading and ditching machine	P. J. Creedon	559,026	Apr. 28	2650	645	75	549
Grading and ditching machine	C. F. Hinman	557,125	Mar. 31	2917	698	74	1750
Grading-machine.....	W. D. Arnett	556,954	Mar. 24	2617	615	74	1668
Grain and seed cleaner.....	T. J. Hatfield	574,354	Dec. 29	4123	979	77	2120
Grain and seed separator.....	J. Lucas	555,577	Mar. 3	156	37	74	1159
Grain-binder.....	B. T. Brown	553,203	Jan. 14	1305	316	74	259
Grain-binder.....	W. W. Burson	564,589	July 28	2374	559	76	219
Grain-binder.....	W. W. Burson	567,847	Sept. 15	1943	465	76	1672
Grain-binder.....	L. J. Fellay	567,826	Sept. 15	1903	456	76	1665
Grain-binder.....	A. Heusch	554,691	Feb. 18	1579	371	74	832
Grain-binder.....	J. Macphail	561,010	May 26	3045	701	75	1330
Grain-binder.....	L. Miller	571,072	Nov. 10	1168	273	77	884
Grain-binder.....	B. F. Stewart	568,810	Oct. 6	164	39, 40	77	33
Grain-binder band-securing mechanism	L. J. Fellay	554,588	Feb. 11	1392	327	74	780
Grain-binder butt-adjuster.....	T. Smith	561,182	June 2	196	48, 49	75	1404
Grain-binder butt-adjuster.....	J. E. Steward	557,447	Mar. 31	3503	837	74	1857
Grain-binder head-board.....	J. Macphail	567,148	Sept. 8	741	173	76	1434
Grain-binder knotter-operating mechanism	M. Kane	564,622	July 28	2433	573	76	496

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Grain-binder trip mechanism	B. F. Stewart	573,048	Dec. 15	1694	405	77	1640
Grain-binder tying mechanism	B. F. Stewart	573,307	Dec. 15	2173	518	77	1727
Grain-binders. Knot-tying device for automatic	G. H. Ellis	567,737	Sept. 15	1749	419	76	1635
Grain-binders. Knotting mechanism for automatic	J. F. Appleby	567,932	Sept. 15	2065	{ 495 496 }	76	1696
Grain-binding machines. Tension device for	P. R. Martin	568,621	Sept. 29	3334	798	76	1959
Grain-box	L. S. Safford	555,127	Feb. 25	2367	563	74	995
Grain-cleaner	C. J. Mober	552,769	Jan. 7	488	{ 120 121 }	74	92
Grain-cleaner	J. C. Welling	564,491	July 21	2188	513	76	434
Grain-cleaner and stock-feeder. Combined	N. Smith	555,909	Mar. 3	715	172	74	1263
Grain cleaning and scouring machine	C. S. Jackson	559,332	Apr. 28	3250	{ 784 785 662 663 }	75	661
Grain-cleaning device	F. F. Landis	562,625	June 23	2728	590	76	1780
Grain. Cleaning or scouring	J. Beall	563,125	Sept. 22	2458	590	76	1780
Grain-conveyer. Pneumatic	J. B. Schuman	559,615	May 5	455	106	75	770
Grain-drier	J. Backhouse, Jr.	570,783	Nov. 3	663	152	77	760
Grain-drier	G. H. Carmack	570,662	Nov. 3	457	107	77	724
Grain-drier	J. S. Metcalf	558,508	Apr. 21	1766	429	75	367
Grain-drier	W. W. Sanders	558,988	Apr. 28	2528	629	75	537
Grain-drier	J. E. Turney	565,055	Aug. 4	155	36, 37	76	646
Grain-drying apparatus	L. E. Barbeau	556,129	Mar. 10	1148	270	74	1362
Grain-drying apparatus	T. G. Frost	570,989	Nov. 10	1023	239	77	857
Grain-drill	W. Banwarth	562,755	June 23	2954	715	75	19-7
Grain-drill	C. C. Blair	569,035	Oct. 6	551	127	77	105
Grain-drill	H. C. Ham	553,405	Jan. 21	1656	396	74	338
Grain-drill	H. C. Ham	564,424	July 21	2087	{ 487 488 }	76	415
Grain-drill	J. M. King	573,416	Dec. 15	2347	561	77	1759
Grain-drill	G. W. Kirkpatrick, A. May, and G. W. Stevens	559,336	Apr. 28	3253	786	75	662
Grain-drill speed-gearing	R. Galloway	571,224	Nov. 10	1429	334	77	932
Grain dump and elevator. Combined	J. Immel	555,954	Mar. 10	808	194	74	1300
Grain-elevator	J. D. Ream and M. Lewis	572,448	Dec. 1	636	{ 150 151 }	77	1399
Grain elevator and conveyer. Combined	J. R. Harrison	565,076	Aug. 4	200	50	76	654
Grain-elevators. Guide for tackle of	C. T. Ladd	564,701	July 28	2553	604	76	520
Grain-moving device	E. C. Harnden	563,172	June 30	3723	892	75	2154
Grain proportioner and mixer	F. S. Ritter	574,270	Dec. 29	3965	947	77	2094
Grain recleaner and separator	J. B. Schuman	569,369	Oct. 13	1162	276	77	237
Grain-scourer	W. W. Huntley and F. D. Wolfrom	559,488	May 5	239	54	75	729
Grain-scourer	E. Keith	570,600	Nov. 3	312	76, 77	77	696
Grain-scourer and separator	E. Keith	558,182	Apr. 14	1193	291	75	243
Grain-scouring machine	J. B. Clark	555,927	Mar. 10	756	183	74	1290
Grain-scouring machine	E. R. Draver	560,612	May 19	2300	527	75	1173
Grain-separating machine	F. H. Schnle	559,815	May 12	828	{ 194 195 }	75	853
Grain-separating machine	L. W. Stevens	552,674	Jan. 7	304	82	74	59
Grain-separator	R. W. Rossiter	573,706	Dec. 22	2923	691	77	1886
Grain-separator	J. W. Woodruff	562,750	June 23	2944	{ 713 714 }	75	1924
Grain-separator. Tubular	J. B. Cornwall	569,089	Oct. 6	641	146	77	123
Grain, &c. Shock-cover for	H. Walker	559,010	Apr. 28	2621	639	75	544
Grain stoning and washing apparatus	L. E. Barbeau	567,956	Sept. 22	2119	511	76	1719
Grain-storage elevator	M. F. and J. Y. Seeley	572,726	Dec. 8	1132	{ 273 274 }	77	1513
Grain washing and cleansing apparatus	E. A. Weinhold	562,053	June 16	1758	425	75	1747
Grain-tempering machine	E. Blodgett	570,449	Nov. 3	9	3	77	640
Graining-tool	W. S. Turner	567,523	Sept. 8	1379	332	76	1548
Gramophone	E. Berliner	564,586	July 28	2367	{ 557 558 }	76	484
Graphite. Manufacture of	E. G. Acheson	568,323	Sept. 29	2789	671	76	1859
Graphophone	E. H. Amet	562,693	June 23	2835	688	75	1963
Graphophone	E. H. Amet	562,753	June 23	2949	715	75	1966
Graphophone	T. H. Macdonald	569,290	Oct. 13	986	237	77	204
Graphophone or device for reproducing sounds from sound-writings.	E. H. Amet	562,694	June 23	2837	689	75	1963
Graphophone-records. Device or apparatus for duplicating	T. H. Macdonald	559,806	May 12	818	192	75	851
Grapple	L. H. Carlson	574,133	Dec. 29	3693	{ 879 880 }	77	2042
Grappling device for carpenters	J. O. Hanna	572,751	Dec. 8	1179	283	77	1521
Grass and weed exterminator	G. W. Briggs	568,401	Sept. 29	2921	703	76	1882
Grate	C. J. Bonnet	564,864	July 28	2838	678	76	570
Grate	J. Bristly	571,506	Nov. 17	1916	457	77	1037
Grate	T. M. Edwards	567,083	Sept. 1	622	144	76	1400
Grate	A. E. Harper	558,067	Apr. 14	1012	{ 246 247 }	75	207
Grate	H. McGovern	554,193	Feb. 4	710	161	74	635
Grate	G. H. Phillips	568,790	Oct. 6	135	33	77	28
Grate	J. Reagan	566,093	Aug. 18	2085	{ 508 509 }	76	1046
Grate	J. S. Roake	573,164	Dec. 15	1890	455	77	1676
Grate	F. G. Saylor	563,986	July 14	1317	{ 307 308 }	76	260
Grate	W. E. Scott	569,063	Oct. 6	595	136	77	114
Grate	G. C. St. John	574,347	Dec. 29	4110	976	77	2118
Grate	J. Walp	560,827	May 26	2727	626	75	1271
Grate	E. K. West	554,471	Feb. 11	1202	280	74	743
Grate	C. Yingling	556,795	Mar. 24	2357	555	74	1619
Grate and attachment therefor. Open	J. A. Bibro	566,649	Aug. 25	3038	742	76	1243
Grate attachment	C. E. Matthews	560,143	May 12	1466	331	75	973
Grate-back	G. A. Boylston	553,388	Jan. 21	1627	388	74	332

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Grate-bar	J. T. Fuller.....	569,375	Oct. 13	1138	271	77	234
Grate-bar	D. Kridler.....	558,185	Apr. 14	1199	292	75	244
Grate-bar	J. Wagner.....	561,632	June 9	1021	245	75	1588
Grate-bar	J. Wagner.....	561,929	June 9	1538	372	75	1685
Grate. Combined gas and coal	C. H. Miller.....	567,812	Sept. 15	1883	451	76	1661
Grate. Dumping.....	W. R. Roney and C. W. Townsend.....	557,791	Apr. 7	639	153	75	120
Grate for furnaces, &c.....	F. P. Fuller.....	565,888	Aug. 18	1715	420	76	972
Grate for marine or other boilers. Shaking.....	J. Reagan.....	566,094	Aug. 18	2070	510	76	1047
Grate. Front.....	F. O. Farwell.....	573,816	Dec. 22	3095	736	77	1919
Grate. Hollow blast rocking.....	J. L. White.....	554,556	Feb. 11	1329	311	74	768
Grate. Shaking and dumping.....	G. M. Conway.....	556,403	Mar. 17	1677	391	74	1475
Grate smoke-bleaching attachment.....	J. T. Sands.....	562,247	June 16	2084	505	75	1807
Grate. Traveling.....	E. B. Cox.....	562,069	June 16	1803	435	75	1753
Grater.....	W. J. Dimler and C. O. Reichert.....	566,381	Aug. 25	2589	632	76	1157
Grater.....	E. Gilmore.....	571,358	Nov. 17	1659	393	77	991
Grater.....	J. S. Sobey.....	564,656	July 28	2480	585	76	506
Grater. Nutmeg.....	C. E. Damon.....	571,218	Nov. 10	1421	332	77	931
Grater. Nutmeg.....	A. A. Freeman.....	565,070	Aug. 4	182	44	76	651
Grater. Nutmeg.....	C. A. Prest.....	557,508	Mar. 31	3620	868	74	1878
Grater. Nutmeg.....	M. H. Sexton.....	559,543	May 5	337	82	75	748
Grating fruits, &c. Machine for.....	W. R. Respass, Jr.....	555,124	Feb. 25	2361	561	74	994
Grave-filler.....	W. T. Allen, Jr.....	554,356	Feb. 11	998	231	74	705
Grave-lining.....	J. A. Knarr.....	571,090	Nov. 10	1206	283	77	891
Gravel-dump.....	A. P. Williams.....	572,233	Dec. 1	246	59	77	1325
Gravel, &c. Washer for auriferous.....	T. G. Barlow-Massicks.....	565,151	Aug. 4	375	87	76	687
Gravity-lock.....	G. R. Brobeck and L. D. Lewis.....	572,628	Dec. 8	952	230	77	1479
Gravity-lock.....	J. D. Moore.....	557,595	Apr. 7	122	31, 32	75	24
Gravity-motor.....	J. N. Ericsson.....	573,583	Dec. 22	2676	634 635 636	77	1839
Gravity-motor.....	S. E. Hennagir.....	555,949	Mar. 10	800	192	74	1299
Grease-cup.....	H. K. Stahl.....	556,780	Mar. 24	2337	551	74	1616
Grease-proofing articles. Compound for.....	W. B. Shober and H. M. Ullmann.....	570,965	Nov. 10	965		77	850
Greenhouse.....	N. S. Chapman.....	566,443	Aug. 25	2741	665	76	1185
Gristle.....	J. F. Lockwood.....	554,942	Feb. 18	2012	476	74	913
Gristle.....	F. O. McCleary.....	559,037	Apr. 28	2669	650	75	553
Gristle.....	T. A. Watrous.....	560,116	May 12	1422	319	75	965
Grinder. Drill.....	W. G. Budlong.....	571,336	Nov. 17	1626	386	77	984
Grinder. Sickle.....	B. C. Rockwell.....	558,522	Apr. 21	1788	434	75	372
Grinding and drilling machine.....	J. Carey and W. A. Reid.....	569,126	Oct. 6	697	162	77	133
Grinding and finishing machine.....	H. A. Axtell.....	560,886	May 26	2853	653 654	75	1294
Grinding and finishing machine.....	H. A. Axtell.....	560,887	May 26	2856	654 655	75	1295
Grinding and polishing machine.....	A. Johnston.....	557,825	Apr. 7	539	129 130	75	102
Grinding and polishing machine. Knife.....	J. A. Carlson.....	560,390	May 19	1926	439 440	75	1106
Grinding antifriction-balls. Mechanism for.....	G. F. Simonds.....	560,940	May 26	2944	676	75	1311
Grinding antifriction-balls. Mechanism for.....	G. F. Simonds.....	560,941	May 26	2946	676	75	1312
Grinding edges of flat bars, plates, &c. Machine for.....	R. W. Hunton.....	557,680	Apr. 7	282	67, 68	75	53
Grinding-machine.....	C. W. H. Blood.....	553,828	Feb. 4	13	4, 5	74	507
Grinding-machine.....	H. S. Buckland.....	559,842	May 12	897	200	75	865
Grinding-machine.....	P. H. Cazier.....	569,782	Oct. 20	1886	448	77	383
Grinding-machine.....	A. R. Clizbe.....	567,637	Sept. 15	1583	381	76	1602
Grinding-machine.....	A. R. Clizbe.....	567,638	Sept. 15	1585	381 382	76	1602
Grinding-machine.....	W. E. Cook.....	556,919	Mar. 24	2567	604	74	1659
Grinding-machine.....	J. Coyne.....	554,480	Feb. 11	1213	283 284	74	745
Grinding-machine.....	P. J. Hoenscheid.....	563,593	July 7	604	140 141	76	113
Grinding-machine.....	S. Nicholson.....	556,638	Mar. 17	2085	488	74	1551
Grinding-machine.....	F. Parsons.....	570,766	Nov. 3	639	146	77	755
Grinding-machine.....	H. B. Schureman.....	556,868	Mar. 24	2483	585	74	1644
Grinding-machine.....	F. W. Taylor.....	565,644	Aug. 11	1277	310 311	76	873
Grinding-machine.....	J. W. Terry.....	570,110	Oct. 27	2448	582	77	502
Grinding-machine.....	W. O. Vivarttas.....	563,105	June 30	3616	867	75	2134
Grinding-machine attachment. Drill.....	J. H. Agesen.....	572,944	Dec. 15	1509	361	77	1603
Grinding-machine. Knife.....	C. B. Snow and C. A. Sherman.....	570,966	Nov. 10	986	229	77	850
Grinding-machine knife-holding attachment.....	A. C. Phillips.....	561,177	June 2	191	47	75	1403
Grinding-mill.....	J. F. W. Amende.....	561,252	June 2	296	74, 75	75	1425
Grinding-mill.....	E. Bailly.....	568,289	Sept. 22	2729	655	76	1832
Grinding-mill.....	D. E. Barnard.....	569,571	Oct. 13	1481	348 349	77	295
Grinding-mill.....	H. J. Hughes.....	561,317	June 2	447	111	75	1456
Grinding-mill.....	D. L. Sprague.....	563,988	July 14	1322	308	76	200
Grinding-mill.....	T. L. and T. J. Sturtevant.....	572,386	Dec. 1	548	129 130	77	1382
Grinding mowing-machine knives.....	W. C. Case.....	562,456	June 23	2442	593	75	1890
Grinding or crushing mill.....	P. A. Cook.....	568,334	Sept. 29	2811	676	76	1862
Grinding parallel spindles, rods, or shafts. Apparatus for.....	F. Ashton.....	562,268	June 16	2117	513 514	75	1812
Grinding-stone.....	H. D. Blumenfeld.....	557,301	Mar. 31	3253	780	74	1808
Grindstone-fixture.....	C. W. Pierce.....	567,504	Sept. 8	1356	326	76	1544
Grindstone-frame.....	S. C. Schofield.....	555,586	Mar. 3	172	40	74	1161
Grindstone-frame.....	H. White.....	569,806	Oct. 20	1922	456 457	77	390
Grip.....	H. A. Lemon.....	560,417	May 19	1974	452	75	1114
Grip and brake operating mechanism.....	J. Jonson.....	570,023	Oct. 27	2289	543	77	471
Gripper.....	F. J. Gorris.....	560,708	May 26	2523	579	75	1231
Grooves in wood, metal, &c. Machine for cutting, tapered.....	W. Lister and J. Cardwell.....	559,858	May 12	933	207 208	75	872

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Grooving and seaming machine.....	C. L. Ridgway.....	555,335	Feb. 25	2729	640	74	1063
Grooving-machine.....	H. W. Morgan.....	565,213	Aug. 4	489	116 117	76	707
Grounds. Method of and means for detecting.....	J. F. Kelly.....	554,275	Feb. 11	859	197	74	678
Grubber. Brush.....	C. E. Alvord.....	564,135	July 14	1585	371 372	76	312
Grubber. Hand.....	A. E. Oliver.....	556,689	Mar. 17	2160	505	74	1566
Guard.....	G. F. Fisher.....	552,610	Jan. 7	186	51	74	37
Guitar.....	C. E. Brown.....	568,108	Sept. 22	2428	583	76	1774
Guitar striker or picker.....	K. R. Essig.....	555,599	Mar. 3	198	46	74	1166
Gully or catch-basin. Concrete-stone.....	E. North.....	554,000	Feb. 4	363	79	74	572
Gum from plants. Extracting.....	P. C. D. Castle.....	566,497	Aug. 25	2823		76	1200
Gum, paste, &c. Apparatus for containing and ap- plying.....	L. Gunn.....	564,614	July 28	2412	569	76	492
Gun. Air.....	W. F. Markham.....	557,849	Apr. 7	582	138	75	110
Gun. Air.....	J. C. Raymond.....	558,841	Apr. 21	2320	565	75	469
Gun. Automatic machine.....	L. V. Benét and H. A. Mercié.....	564,043	July 14	1416	330 331 332	76	278
Gun. Automatic machine.....	R. R. Richmond.....	572,771	Dec. 8	1207	292 293	77	1527
Gun. Automatic rapid-firing.....	I. E. McAbey.....	566,214	Aug. 18	2290	560	76	1085
Gun-barrel.....	F. Tittmann.....	559,550	May 5	347	83	75	750
Gun-barrel. Auxiliary.....	J. E. Perl.....	555,582	Mar. 3	166	39	74	1160
Gun-barrels with stocks. Detachably uniting.....	W. Mason.....	565,766	Aug. 11	1499	366	76	915
Gun-battery. Platoon.....	R. B. Potts.....	573,353	Dec. 15	2244	537	77	1740
Gun. Blow.....	B. Beck and W. Liebrecht.....	565,423	Aug. 11	854	201 202	76	794
Gun. Breech-loading bolt.....	M. Mondragon.....	557,079	Mar. 24	2833	675	74	1712
Gun. Breech-loading breakdown.....	A. H. Fox.....	563,153	June 30	3694	884	75	2148
Gun breech mechanism.....	A. Welin.....	552,560	Jan. 7	100	27, 28	74	20
Gun-carriage.....	J. B. G. A. Canet.....	557,487	Mar. 31	3577	855 856 857	74	1871
Gun-carriage.....	J. A. Deport.....	565,609	Aug. 11	1216	292	76	861
Gun-carriage.....	J. A. Deport.....	571,557	Nov. 17	2003	476	77	1052
Gun-carriage. Counterpoise.....	J. A. Howell.....	556,926	Mar. 24	2576	606	74	1660
Gun-carriage. Counterpoise disappearing.....	W. H. Morgan.....	569,222	Oct. 13	871	205 206	77	182
Gun-carriage. Disappearing.....	W. H. Morgan.....	569,225	Oct. 13	878	208 209	77	183
Gun-carriage. Disappearing counterpoise.....	W. H. Morgan.....	569,223	Oct. 13	874	206 207	77	182
Gun-carriage. Disappearing counterpoise.....	W. H. Morgan.....	569,224	Oct. 13	876	207	77	183
Gun-cleaning rod.....	L. Keller.....	553,472	Jan. 21	1764	421	74	358
Gun-cocking mechanism.....	F. H. Bachmann and R. Wagner.....	568,288	Sept. 22	2727	653 654	76	1831
Gun. Gas-operated magazine.....	C. J. Ehbets.....	570,388	Oct. 27	2980	706 707	77	601
Gun lock. Bolt.....	T. B. Wilson.....	571,608	Nov. 17	2086	501	77	1067
Gun. Machine.....	T. R. Cook.....	560,842	May 26	2761	633	75	1277
Gun. Machine.....	F. Neils.....	562,846	June 30	3135	759	75	2038
Gun. Machine.....	H. C. Webb.....	569,899	Oct. 20	2069	492 493	77	417
Gun. Machine.....	E. Wilder.....	563,701	July 7	781	185 186 187	76	147
Gun. Magazine.....	J. M. Whittemore.....	572,919	Dec. 8	1450	349 350	77	1577
Gun-mount.....	R. B. Dashiell.....	573,210	Dec. 15	1975	476	77	1692
Gun-mounting.....	A. R. Buffington and W. Crozier.....	555,426	Feb. 25	2889	687 688	74	1093
Gunpowder.....	E. Dickson.....	567,536	Sept. 8	1399		76	1552
Gun-rack.....	G. Falk.....	554,252	Feb. 11	819	186 187	74	871
Gun. Rapid-firing.....	A. Welin.....	562,994	June 30	3413	820 821	75	2096
Gun. Recoil-operated bolt.....	W. W. Kimball.....	554,068	Feb. 4	477	108 109	74	592
Gun-sight.....	A. E. Veon.....	572,494	Dec. 1	708	170	77	1413
Gun sighting apparatus.....	H. H. Grenfell.....	565,742	Aug. 11	1459	356 357	76	907
Gun. Spring.....	J. B. Burns.....	568,560	Sept. 29	3211	774	76	1935
Gun. Spring air.....	W. F. Markham.....	553,716	Jan. 28	2197	521	74	454
Gun-stock. Adjustable.....	J. Foulkrod.....	555,602	Mar. 3	202	47	74	1167
Gun-swab.....	J. F. Warner.....	566,041	Aug. 18	2000	484	76	1031
Gun telescope-sight.....	B. A. Fiske.....	556,048	Mar. 10	1001	239	74	1335
Gun valve. Steam.....	W. G. Huey.....	556,058	Mar. 10	1018	243	74	1338
Gun. Water.....	J. W. Wolf.....	563,114	June 30	3631	870	75	2137
Gun. Wire-wound.....	J. A. Miller.....	568,914	Oct. 6	332	77	77	64
Guns. Apparatus for checking recoil of.....	A. von Kerpely.....	553,990	Feb. 4	343	75	74	562
Guns. Barrel-locking bolt for breakdown.....	W. Leistiko.....	564,525	July 21	2239	526	76	444
Guns. Breech-closing mechanism for rapid-fire.....	J. A. Deport.....	567,224	Sept. 8	851	202	76	1454
Guns. Breech mechanism for quick-firing.....	H. Schneider.....	561,444	June 2	682	167 168 169	75	1499
Guns. Breech mechanism for rapid-fire.....	H. Schneider.....	562,666	June 23	2792	678 679	75	1955
Guns. Carriage for quick-firing.....	D. M. B. H. Cochrane.....	566,138	Aug. 18	2169	528	76	1061
Guns. Choke attachment for.....	R. P. Cory.....	555,432	Feb. 25	2903	690	74	1095
Guns. Combination cleaning-rod for.....	C. M. Powers and W. E. Surface.....	562,416	June 23	2362	577	75	1875
Guns. Ejecting mechanism for breakdown.....	E. G. Parry.....	554,002	Feb. 4	366	80	74	572
Guns. Ejector mechanism for breakdown.....	G. A. Horne.....	572,755	Dec. 8	1184	285	77	1522

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Guns. Extractor and ejector for breakdown.....	W. H. Davenport.....	565,606	Aug. 11	1209	290	76	859
Guns. Hinge-pin for breakdown.....	A. D. Blanchard.....	572,520	Dec. 8	754	180	77	1438
Guns. Locking means for operating handles of breech-loading.....	W. Mason.....	564,440	July 21	2111	493	76	419
Guns. Means for affixing side-arms to.....	P. Manser.....	572,266	Dec. 1	304	73	77	1337
Guns. Safety device for action-bars of bolt.....	W. Mason.....	565,767	Aug. 11	1503	366	76	915
Guns. Shell-extractor for breakdown.....	W. H. Davenport.....	565,605	Aug. 11	1207	290	76	859
Guns. Single trigger for double-barreled.....	E. H. Thorneley.....	568,285	Sept. 22	2722	652	76	1830
Guns. Single-trigger lock for double-barrel.....	F. D. Granger.....	572,480	Dec. 1	682	164	77	1409
Gutta-percha cloth. Making.....	J. S. Coyte.....	562,281	June 16	2142	521	75	1817
Gutter for houses. Rain.....	J. H. Horan.....	559,942	May 12	1091	242	75	900
Gutter. Roof.....	J. R. Bryant.....	561,563	June 9	900	216	75	1565
Gutters, &c. Apparatus for cleaning.....	F. L. Decarie.....	556,338	Mar. 17	1557	364 365	74	1452
Gymnastic apparatus.....	J. Zedora.....	562,448	June 23	2427	589	75	1887
Gynecological stirrup.....	J. Snodgrass.....	564,947	July 23	2991	712	76	598
Hackling-machine.....	W. H. H. Sisum.....	557,621	Apr. 7	161	42	75	32
Hair-clasp.....	W. B. Emmons.....	565,884	Aug. 18	1711	419	76	972
Hair-curler.....	C. H. Baldwin.....	570,836	Nov. 3	760	173	77	780
Hair-curler.....	A. S. Gilmore.....	564,611	July 28	2409	568	76	492
Hair-curler.....	L. C. Wegfarth.....	557,038	Mar. 24	2778	660	74	1699
Hair-cutter and singer. Electrical.....	F. M. Bell.....	558,465	Apr. 14	1686	405	75	336
Hair-cutter's comb.....	P. W. Mathews.....	567,910	Sept. 15	2026	486	76	1689
Hair-drier.....	E. P. and H. L. Bowdoin.....	573,437	Dec. 22	2432	577	77	1793
Hair-holder.....	K. Liebreich.....	566,779	Sept. 1	75	19	76	1294
Hair on the head. Device for use in drying.....	G. R. Waters.....	571,960	Nov. 24	2725	644	77	1208
Hair-pin.....	H. A. Belden.....	565,255	Aug. 4	590	139	76	723
Hair-pin.....	J. Berkey.....	558,571	Apr. 21	2379	579	75	481
Hair-pin.....	L. F. Hock.....	565,207	Aug. 4	475	113	76	705
Hair-pin.....	F. J. Prokop.....	569,053	Oct. 6	585	133	77	112
Hair-pin.....	J. W. Timmons.....	574,288	Dec. 29	4017	953	77	2100
Hair-pin.....	A. C. Young.....	562,690	June 23	2832	688	75	1962
Hair-pin and button-hook.....	B. Whiteley.....	569,144	Oct. 6	731	172	77	139
Hair-pins. Apparatus for manufacturing.....	G., J. G., and M. O. Rehffuss.....	573,536	Dec. 22	2594	615 616	77	1823
Hair-pins. Magnetizing-box for.....	C. A. Hussey.....	559,176	Apr. 28	2958	714	75	607
Halter.....	C. H. Allen and H. C. Maltby.....	562,752	June 23	2948	714	75	1985
Halter and blind. Combined.....	A. S. Smith.....	557,710	Apr. 7	324	77	75	64
Halter and weaning-muzzle. Combined.....	O. E. and J. E. Schow.....	563,721	July 7	818	195	76	153
Hame.....	R. G. Armstrong.....	555,279	Feb. 25	2628	616 617	74	1044
Hame. Adjustable.....	A. W. Smith.....	561,731	June 9	1202	285	75	1623
Hame. Adjustable.....	R. G. Armstrong.....	559,020	Apr. 28	2642	644	75	548
Hame and hame-fastener.....	E. Gunther.....	556,924	Mar. 24	2572	605	74	1660
Hame and neck-yoke. Combined.....	F. W. Toan.....	564,236	July 21	1764	412	76	358
Hame attachment.....	G. Siegenthaler.....	568,280	Oct. 6	285	65	77	55
Hame-fastener.....	G. C. Bostwick.....	573,131	Dec. 15	1840	443	77	1668
Hame-fastener.....	D. E. Copp.....	566,142	Aug. 18	2175	529	76	1061
Hame-fastener.....	W. H. Frizzell.....	556,536	Mar. 17	1933	451	74	1523
Hame-fastener.....	C. H. Johnson.....	568,617	Sept. 29	3329	797	76	1958
Hame-fastener.....	J. P. McAbbe.....	553,420	Jan. 21	1680	401	74	342
Hame-fastener.....	J. A. McCawley.....	553,012	Jan. 14	960	232	74	194
Hame-fastener.....	J. G. Miller.....	558,695	Apr. 21	2082	503	75	425
Hame-fastener.....	O. C. Olsen.....	562,248	June 30	3138	760	75	2039
Hame-fastener.....	J. Pulley.....	558,520	Apr. 21	1785	434	75	371
Hame-hook.....	F. F. Cherry.....	571,894	Nov. 24	2614	619	77	1186
Hame-hook.....	R. B. Clement.....	559,998	May 12	1193	265	75	922
Hame-hook. Adjustable.....	C. B. Perry.....	565,501	Aug. 11	1038	249	76	828
Hame-staple protector.....	R. W. Jones.....	560,037	May 12	1267	285	75	935
Hammer.....	A. C. Beckwith.....	559,660	May 5	528	121	75	783
Hammer.....	C. M. Blydenburgh.....	559,049	Apr. 28	2693	656	75	557
Hammer.....	D. M. Burns.....	561,072	May 26	3145	726	75	1349
Hammer.....	F. H. Colvin.....	562,581	June 23	2658	643	75	1930
Hammer and means for charging same with nails. } Nail-setting.....	H. S. Garr.....	554,595	Feb. 11	1404	329 330	74	783
Hammer. Bush.....	F. Beattie.....	564,419	July 21	2078	486	76	414
Hammer. Bush.....	G. Main.....	552,848	Jan. 7	650	159	74	123
Hammer. Bush.....	G. Main.....	552,849	Jan. 7	651	160	74	123
Hammer. Bush.....	G. Main.....	552,850	Jan. 7	651	160	74	123
Hammer. Bush.....	C. Thibodeau.....	555,714	Mar. 3	388	90	74	1199
Hammer. Drop.....	F. Lombard.....	563,603	July 7	620	145 146	76	116
Hammer. Drop.....	F. Lombard.....	566,199	Aug. 18	2264	553	76	1079
Hammer oil-guard. Drop.....	C. E. Billings.....	566,128	Aug. 18	2151	524	76	1057
Hammer. Pneumatic.....	J. Béché, Jr.....	559,251	Apr. 28	3109	750 751 699	75	635
Hammer. Pneumatic.....	M. A. Yeakley.....	568,395	Sept. 29	2906	700 701	76	1880
Hammer. Power.....	G. F. Sudenga and E. E. Keck.....	565,523	Aug. 11	1068	257	76	834
Hammer. Steam.....	F. B. Miles.....	562,231	June 16	2057	497 498	75	1802
Hammer. Steam.....	T. R. Morgan, Sr.....	565,015	Aug. 4	89	21	76	634
Hammer. Steam drop.....	A. F. L. Reussner.....	553,261	Jan. 21	1403	342	74	292
Hammer. Tack.....	A. C. Nickloy.....	563,402	July 7	281	64	76	56
Hammering-machine. Electrical.....	T. C. Robinson.....	566,537	Aug. 25	2884	702	76	1213
Hammock.....	W. Hines.....	572,424	Dec. 1	605	143	77	1393
Hammock.....	L. E. Irish.....	566,180	Aug. 18	2233	545	76	1073
Hammock.....	T. Nesom.....	558,834	Apr. 21	2311	563	75	467
Hammock.....	T. J. Woodcock.....	563,538	July 7	511	118	76	97
Hammock canopy attachment.....	W. H. Croft.....	562,803	June 30	3045	736	75	2021
Hammock-chair.....	W. W. Blair.....	555,557	Mar. 3	127	29	74	1153
Hammock-horse.....	M. A. Bailey.....	553,023	Jan. 14	976	236	74	197
Hammock seat attachment.....	I. E. Palmer.....	574,073	Dec. 29	3580	855	77	2021

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Hammock-spreader	W. H. Shetterly	560,285	May 19	1738	395	75	1073
Hammock-supporting hook	I. E. Palmer	556,475	Mar. 17	1810	421	74	1501
Hammock-supporting hook	I. E. Palmer	567,280	Sept. 8	969	230	76	1474
Hand. Artificial	J. Voegtlin	569,593	Oct. 13	1528	358	77	304
Hand-brake	C. Mullin and F. C. Galloway	571,676	Nov. 17	2193	528	77	1088
Hand-drill	J. McSweeney	573,231	Dec. 15	2018	484	77	1700
Hand-hole plate	N. W. Pratt	565,504	Aug. 11	1042	250	76	829
Hand-hook. Merchandise	H. F. Dalton	555,681	Mar. 3	341	78	74	1191
Hand-protector	C. H. Gleim	573,215	Dec. 15	1986	478	77	1695
Hand-rake	S. B. Guernsey	563,923	July 14	1203	282	76	240
Handle:							
<i>See</i> Adjustable handle.	Knife or fork handle.						
Bail-handle.	Lever-handle.						
Basket-handle.	Package-handle.						
Bicycle-handle.	Pail-handle.						
Brake-handle.	Pan-handle.						
Casket-handle.	Pick-handle.						
Coffin-handle.	Pot-handle.						
Crank-handle.	Saucepan-handle.						
Cutlery-handle.	Saw-handle.						
Detachable handle.	Tool-handle.						
Door-handle.	Velocipede-handle.						
Handle	F. L. Ray	569,768	Oct. 20	1861	441	77	378
Handle	F. C. Rockwell	570,186	Oct. 27	2581	613	77	528
Handle	F. C. Rockwell	573,796	Dec. 22	3058	724	77	1912
Handle	H. L. Vietts	557,628	Apr. 7	175	45	75	34
Handle attachment.	L. B. Young	572,851	Dec. 8	1338	322	77	1553
Handle-bar	A. Perkins	560,172	May 12	1520	343	75	982
Handle-bar. Adjustable	J. Galt and A. P. Rankin	567,853	Sept. 15	1951	467	76	1674
Handle for hardware, &c.	J. L. Moore	555,872	Mar. 3	651	156	74	1250
Handle for hardware or analogous articles	J. L. Moore and F. R. Brown	555,873	Mar. 3	652	156	74	1250
Handle for pokers, &c.	G. J. Fanner and J. A. Fitzgerald	561,100	June 2	45	11	75	1375
Handle-holding gage	J. A. Work	558,333	Apr. 14	1446	356	75	291
Hanger:							
<i>See</i> Blind-hanger.	Garment-hanger.						
Clothes-line hanger.	Lamp-hanger.						
Coat-hanger.	Meat-hanger.						
Coat and hat hanger.	Picture-frame hanger.						
Coat and pants hanger.	Pipe-hanger.						
hanger.	Pot-hanger.						
Curtain-hanger.	Shaft-hanger.						
Door-hanger.	Suit-hanger.						
Electric-light hanger.							
Harmonica	M. Doerfel	566,448	Aug. 25	2748	666	76	1186
Harmonica	M. Messner	555,610	Mar. 3	214	49	74	1169
Harness	W. A. Allen	566,437	Aug. 25	2695	657	76	1178
Harness	J. E. Clark	566,498	Aug. 25	2825	688	76	1200
Harness	H. C. Detzer	567,850	Sept. 15	1948	466	76	1673
Harness	G. Fierheller	553,114	Jan. 14	1148	279	74	230
Harness	M. T. Hancock	568,304	Sept. 22	2754	662	76	1837
Harness	C. H. Kooper	567,244	Sept. 8	886	212	76	1461
Harness	N. H. Mesick	569,048	Oct. 6	571	131	77	109
Harness	S. M. Schindel	557,432	Mar. 31	3483	834	74	1853
Harness	R. F. Spencer	573,306	Dec. 15	2172	518	77	1727
Harness attachment	J. F. Gambrell	570,548	Nov. 3	209	55	77	676
Harness attachment	J. D. Hull	568,762	Oct. 6	89	21	77	20
Harness attachment	W. A. Seibel	570,964	Nov. 10	985	229	77	850
Harness attachment	C. H. Stoodly	571,808	Nov. 24	2444	582	77	1155
Harness attachment	R. E. Whitacre	555,630	Mar. 3	251	58	74	1176
Harness attachment. Vehicle	J. Reel	571,797	Nov. 24	2428	578	77	1152
Harness. Fire-engine	T. Murphy	552,668	Jan. 7	290	78, 79	74	56
Harness-hanger	P. Provost	560,753	May 26	2595	597	75	1244
Harness head-gear	E. G. Sylvester	569,526	Oct. 13	1391	328	77	279
Harness-pad	G. W. Brown	556,915	Mar. 24	2559	603	74	1657
Harness pad or lining	L. T. Riggs and G. E. Ely	557,885	Apr. 7	631	150	75	119
Harness-strap hook	J. C. Fendler	563,851	July 14	1063	250	76	214
Harness. Supplemental terret attachment for	J. Smith	557,904	Apr. 7	665	159	75	125
Harness to vehicle-shafts. Device for attaching	F. Dickerboom	572,873	Dec. 8	1369	331	77	1559
Harness to vehicles. Device for attaching	I. W. Allyn	558,249	Apr. 14	1307	319	75	264
Harness. Track	H. Persels and D. H. Mack	554,303	Feb. 11	908	210	74	688
Harness-tree	W. C. Smalstig	558,431	Apr. 14	1633	393	75	326
Harp	R. Dolge	574,307	Dec. 29	4041	960	77	2105
Harp	R. Dolge	574,308	Dec. 29	4042	960	77	2105
Harp	R. Dolge	574,309	Dec. 29	4044	961	77	2105
Harp	T. H. Roth, R. Dolge, and L. Melcher	557,509	Mar. 31	3621	868	74	1878
Harp	E. P. Stark	570,836	Nov. 3	736	168	77	775
Harp	W. E. Whitcomb	570,242	Oct. 27	2687	638	77	547
Harp	A. Wydman	562,447	June 23	2426	588	75	1887
Harrow	H. D. Babcock and D. St. John	561,643	June 9	1036	249	75	1591
Harrow	J. A. Bailey	569,736	Oct. 20	1798	427	77	368
Harrow	G. C. Billups	555,424	Feb. 25	2888	687	74	1093
Harrow	O. J. Childs	571,895	Nov. 24	2615	619	77	1186
Harrow	G. B. Davison	562,711	June 23	2876	698	75	1970
Harrow	J. P. De Moss, Jr.	573,505	Dec. 22	2546	603	77	1813
Harrow	H. W. Ferling and E. Heim	568,244	Sept. 22	2659	637	76	1818
Harrow	H. L. Flesher	569,492	Oct. 13	1325	312	77	266
Harrow	S. N. Hench and W. A. Dromgold	555,699	Mar. 3	365	84, 85	74	1195
Harrow	L. H. Jackson and W. E. Rhegness	571,164	Nov. 10	1339	312	77	916
Harrow	J. McCormack	564,096	July 14	1517	355	76	298
Harrow	F. C. Merrill	555,784	Mar. 3	488	118	74	1218
Harrow	D. B. Smith	567,321	Sept. 8	1055	251	76	1489

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Harrow	O. T. Switzer	561,452	June 2	699	172	75	1502
Harrow	A. R. Troutman	573,315	Dec. 15	2183	521	77	1729
Harrow	E. E. Whipple	556,075	Mar. 10	1051	250	74	1343
Harrow	E. E. Whipple	571,715	Nov. 17	2261	543	77	1100
Harrow and cultivator	B. L. McLendon	564,833	July 28	2783	662	76	559
Harrow and pulverizer. Combined	W. McCune	559,191	Apr. 28	2982	720	75	611
Harrow and roller. Combined	M. Gottshall	559,975	May 12	1148	256	75	915
Harrow and roller. Combined	F. O. Kinney	573,984	Dec. 29	3426	821	77	1993
Harrow and seeder	E. J. Colby	552,822	Jan. 7	609	148	74	114
Harrow. Disk	C. F. Lindstrand	556,356	Mar. 17	1601	374	74	1461
Harrow. Disk	L. T. Wicks	555,143	Feb. 25	2392	567	74	999
Harrow. Disk	L. T. Wicks	555,144	Feb. 25	2394	568	74	1000
Harrow. Disk	S. W. Woodlan	564,133	July 14	1581	371	76	312
Harrow-frame	H. L. Ferris	569,913	Oct. 20	2095	498	77	422
Harrow or cultivator. Disk	A. and D. Bramer	556,000	Mar. 10	896	214	74	1318
Harrow. Rolling	A. R. Anderson	570,532	Nov. 3	173	46	77	670
Harrow. Rotary	J. G. Ferrill	563,150	June 30	3691	884	75	2148
Harrow. Rotary	A. Sewerson	566,234	Aug. 18	2317	567	76	1090
Harrow. Spring-tooth	M. J. Todd	556,290	Mar. 10	1474	343	74	1422
Harrow-tooth	J. Beaty, Jr.	558,469	Apr. 21	1701	411	75	355
Harrow-tooth	T. D. Jones	562,767	June 23	2970	719	75	1990
Harrow. Wheeled	D. C. Miller	574,102	Dec. 29	3635	868	77	2031
Harvester	J. F. Appleby	567,933	Sept. 15	2068	496 497 498	76	1696
Harvester	W. R. Baker	563,727	July 14	835	198 199	76	172
Harvester	J. H. Elward	552,520	Jan. 7	30	9	74	8
Harvester	L. N. Hardman and A. Turley	562,358	June 16	2277	553	75	1842
Harvester	W. J. Lankford	571,904	Nov. 24	2630	623 624	77	1188
Harvester	E. A. Peck	567,196	Sept. 8	809	191 192	76	1447
Harvester	C. A. A. Rand	555,883	Mar. 3	671	160 161	74	1254
Harvester	J. F. Steward	564,724	July 28	2603	620 621	76	528
Harvester and binder	R. P. Lockhart	571,619	Nov. 17	2102	504 505	77	1070
Harvester and binder reel	C. Benesh	556,244	Mar. 10	1354	319	74	1399
Harvester binding mechanism	M. A. Keller	566,727	Aug. 25	3175	776	76	1266
Harvester binding mechanism	M. A. Keller	569,580	Oct. 13	1504	355	77	300
Harvester bundle-carrier	P. Hanson	573,086	Dec. 15	1761	423	77	1653
Harvester bundle-carrier	B. F. Stewart	571,807	Nov. 24	2441	562	77	1155
Harvester. Clover-seed	S. Hamilton	569,043	Oct. 6	563	130	77	107
Harvester. Corn	D. M. Bair	558,251	Apr. 14	1309	319 320 321	75	265
Harvester. Corn	B. Bucher	572,958	Dec. 15	1533	367 368	77	1608
Harvester. Corn	J. C. Culbertson	564,872	July 28	2851	683	76	572
Harvester. Corn	J. Dable	564,571	July 21	2334	548	76	459
Harvester. Corn	J. Dain, Jr.	572,967	Dec. 15	1556	373	77	1612
Harvester. Corn	C. E. Detling	569,549	Oct. 13	1424	337	77	285
Harvester. Corn	T. A. Galt	572,749	Dec. 8	1176	222 223	77	1521
Harvester. Corn	W. H. Gray	572,110	Dec. 1	23	6	77	1282
Harvester. Corn	W. W. Green	571,857	Nov. 24	2533	600	77	1171
Harvester. Corn	W. T. Harris	559,777	May 5	734	176 177 178	75	821
Harvester. Corn	G. O. Houck	573,270	Dec. 15	2078	498	77	1710
Harvester. Corn	P. Jarvis	556,269	Mar. 10	1405	330	74	1410
Harvester. Corn	G. E. McVay	553,564	Jan. 28	1939	458	74	406
Harvester. Corn	O. C. Miller	573,895	Dec. 29	3250	774	77	1961
Harvester. Corn	J. Odell	574,108	Dec. 29	3642	870	77	2033
Harvester. Corn	A. S. Peck	570,498	Nov. 3	112	27	77	659
Harvester. Corn	R. Pederson	553,421	Jan. 21	1682	401 402	74	343
Harvester. Corn	W. M. Piatt	565,026	Aug. 4	115	27, 28	76	639
Harvester. Corn	H. A. Reeves and M. W. Boman	563,411	July 7	294	67	76	58
Harvester. Corn	S. C. Schofield	562,979	June 30	3389	815	75	2091
Harvester. Corn	F. G. Schuerman	571,846	Nov. 24	2512	596 595	77	1167
Harvester. Corn	C. Schulze	571,202	Nov. 10	1395	326 327	77	926
Harvester. Corn	C. S. Sharp	569,242	Oct. 13	908	217 218	77	190
Harvester. Corn	W. W. Smith	555,406	Feb. 25	2849	672	74	1085
Harvester. Corn	C. S. Waters	553,798	Jan. 28	2323	551 552	74	478
Harvester. Corn	C. S. Waters	563,522	July 7	485	114 115	76	92
Harvester. Corn	M. O. Wert	570,832	Nov. 3	753	171 172	77	778
Harvester. Corn	J. W. White	573,067	Dec. 15	1723	413	77	1645
Harvester. Cotton	C. W. Edgar	555,439	Feb. 25	2923	694	74	1099
Harvester. Cotton	C. H. Pickering	555,118	Feb. 25	2350	559	74	992
Harvester. Cotton	R. J. Roberson and C. F. Moore	554,199	Feb. 4	717	162 163	74	637
Harvester cutter-bar	C. G. Terwilliger	566,355	Aug. 25	2540	620	76	1148
Harvester finger-guard	C. F. George	568,135	Sept. 22	2475	594	76	1783
Harvester. Fodder	A. W. Addington	558,627	Apr. 21	1957	474 475	75	402

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Harvester. Grain.....	H. J. Case.....	559,480	May 5	229	51, 52	75	727
Harvester. Grain.....	H. J. Case.....	561,486	June 2	753	184	75	1512
Harvester. Grain-binding.....	P. Hanson.....	558,946	Apr. 28	2517	{ 610 611 }	75	523
Harvester. Grain-binding.....	L. Miller.....	571,073	Nov. 10	1173	275	77	884
Harvester. Potato.....	J. P. Brennan.....	567,846	Sept. 15	1940	464	76	1671
Harvester-reel.....	B. F. Stewart.....	554,382	Feb. 11	1032	{ 240 241 }	74	712
Harvester-reel.....	B. F. Stewart.....	565,184	Aug. 4	440	106	76	698
Harvester. Self-binding.....	J. F. Appleby.....	567,934	Sept. 15	2073	{ 498 499 }	76	1697
Harvester. Self-binding.....	H. E. Pridmore.....	561,517	June 2	807	{ 196 197 }	75	1523
Harvester. Self-binding.....	C. A. A. Rand.....	554,030	Feb. 4	419	92	74	582
Harvester. Self-binding.....	J. R. Severance.....	571,403	Nov. 17	1728	{ 411 412 }	77	1003
Harvester. Self-binding.....	E. M. Tousley.....	572,585	Dec. 8	871	{ 210 211 }	77	1463
Harvester sheaf-carrier.....	P. Hanson.....	563,229	June 30	3826	917	75	2173
Harvester sheaf-carrier. Self-binding.....	J. F. Stewart.....	573,244	Dec. 15	2035	488	77	1703
Harvester shocker attachment.....	M. R. Huber.....	571,617	Nov. 17	2100	504	77	1070
Harvester truck-wheel attachment.....	L. Miller.....	552,666	Jan. 7	267	78	74	56
Harvesters and binders. Shock-forming attachment for.....	W. S. Shakel.....	559,819	May 12	837	{ 196 197 }	75	855
Harvesters. Driving connection for.....	H. F. Crandall and E. J. Birkett.....	568,893	Oct. 6	304	70	77	58
Harvesters. Knotting mechanism for twine-binding.....	G. W. Whittington.....	567,627	Sept. 15	1557	{ 375 376 }	76	1597
Harvesters. Tension device for self-binding.....	J. F. Appleby.....	567,803	Sept. 15	1863	446	76	1656
Harvesting apparatus. Cotton.....	W. K. Dana.....	564,974	Aug. 4	27	6	76	622
Harvesting-machine.....	J. F. Appleby.....	554,854	Feb. 18	1864	438	74	887
Harvesting-machine.....	J. M. Doddridge.....	565,883	Aug. 18	1710	419	76	971
Harvesting-machine.....	J. F. Stewart.....	554,318	Feb. 11	932	214	74	692
Harvesting-machine elevator.....	J. B. Grimmett.....	555,481	Feb. 25	3002	715	74	1113
Harvesting machinery.....	J. F. Appleby.....	567,935	Sept. 15	2075	{ 499 500 }	76	1697
Harvesting machinery cutter-bar.....	R. Evans.....	563,463	July 7	381	88	76	74
Hasp-fastener.....	H. Schlichting.....	574,276	Dec. 29	3997	949	77	2096
Hasp-fastener.....	G. B. Webb.....	563,434	July 7	338	76	76	66
Hasp-lock.....	W. E. Deibert.....	553,337	Jan. 21	1545	369	74	317
Hasp lock.....	J. A. Glover.....	564,515	July 21	2225	522	76	441
Hasp-lock.....	C. N. Lippitt.....	563,602	July 7	619	145	76	116
Hat.....	C. B. Halstead.....	567,234	Sept. 8	870	208	76	1457
Hat.....	G. Mathias.....	561,413	June 2	617	154	75	1487
Hat and coat hook.....	C. P. Brand.....	573,258	Dec. 15	2058	493	77	1707
Hat and coat tree.....	E. G. Ramford.....	565,799	Aug. 11	1552	378	76	925
Hat beating and cleansing machine.....	C. E. Winterros.....	562,057	June 16	1763	{ 427 428 }	75	1748
Hat-body-rounding machine.....	A. C. Saxton.....	557,896	Apr. 7	647	{ 135 136 }	75	122
Hat-body-stretching machine.....	H. H., A., and A. Turner.....	563,102	June 30	3611	866	75	2133
Hat box or holder.....	J. W. Vogt.....	567,929	Sept. 15	2059	494	76	1695
Hat box or trunk.....	M. Lyons.....	573,789	Dec. 22	3044	{ 721 722 }	77	1909
Hat-brim-curling apparatus.....	W. H. Blackwell.....	565,956	Aug. 18	1851	450	76	1000
Hat-brim-paring gage.....	W. Bradley.....	554,979	Feb. 18	2075	494	74	925
Hat-brim-pouncing machine.....	G. E. Brush.....	560,773	May 26	2640	{ 606 607 }	75	1253
Hat-brim-pouncing machine.....	C. S. Peck.....	559,865	May 12	944	211	75	874
Hat-brim-trimming machine.....	H. H., A., and A. Turner.....	562,987	June 30	3401	{ 817 818 }	75	2093
Hat-brims. Flange for shaping.....	F. L. Butterworth.....	559,930	May 12	1069	238	75	897
Hat-cleansing machine.....	C. S. Schwarz.....	564,539	July 21	2265	531	76	448
Hat-conformer.....	E. H. Byerly.....	560,191	May 19	1555	353	75	1041
Hat-crown-pouncing machine.....	G. E. Brush.....	562,509	June 23	2514	{ 609 610 611 }	75	1903
Hat-crown-pouncing machine.....	G. E. Brush.....	573,856	Dec. 29	3170	756	77	1948
Hat-crown-pouncing machine.....	C. M. Snell.....	569,890	Oct. 20	2051	{ 488 489 }	77	414
Hat-curling machine.....	K. L. Comes and S. T. Newman.....	565,154	Aug. 4	379	88, 89	76	688
Hat-fastener.....	L. A. Barbour and J. J. Edwards.....	570,150	Oct. 27	2519	597	77	515
Hat-fastener.....	C. E. Hallowell.....	574,149	Dec. 29	3719	866	77	2046
Hat-fastener.....	K. Liebreich.....	557,405	Mar. 31	3441	824	74	1845
Hat-fastener.....	M. Lopez.....	568,031	Sept. 22	2273	550	76	1746
Hat-fastener.....	E. Meyer.....	553,717	Jan. 28	2198	521	74	454
Hat-fastener.....	H. G. Scarborough.....	562,556	June 23	2602	631	75	1918
Hat-fastener.....	F. M. Stacy.....	568,047	Sept. 22	2300	558	76	1751
Hat-fastener cushion.....	H. P. Hubbell.....	553,160	Jan. 14	1226	298	74	245
Hat-fastening.....	K. D. Head.....	572,202	Dec. 1	183	44	77	1313
Hat-finishing lathe.....	J. B. Howe.....	558,810	Apr. 21	2275	{ 551 552 }	75	460
Hat. Fireman's.....	J. R. Hopkins.....	560,213	May 19	1598	362	75	1049
Hat flanging and curling apparatus.....	H. Greenfield.....	564,193	July 21	1696	397	76	345
Hat-forming machines. Feeding device for.....	F. F. Poole.....	556,861	Mar. 24	2463	580	74	1640
Hat-hanger.....	T. T. Pearson.....	560,598	May 19	2275	521	75	1169
Hat-holder.....	E. Leger.....	571,772	Nov. 24	2385	569	77	1143
Hat-holder.....	H. W. Rose.....	566,021	Aug. 18	1975	479	76	1026
Hat-identifying mark.....	D. A. Keller.....	570,642	Nov. 3	415	98	77	714
Hat-ironing machine.....	E. Messer.....	574,070	Dec. 29	3575	854	77	2021
Hat-mark.....	J. S. B. Hartsock.....	574,325	Dec. 29	4070	967	77	2110
Hat. Miner's.....	J. McNamara and F. W. Peppler.....	557,864	Apr. 7	604	143	75	114
Hat or cap.....	M. Panoff.....	573,614	Dec. 22	2731	649	77	1851
Hat or cap.....	W. J. Worden.....	573,192	Dec. 15	1948	469	77	1687
Hat or felt pouncing machine.....	R. Eickemeyer.....	565,158	Aug. 4	388	90, 91	76	689

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Hat-pin	M. H. Coltharp	564,364	July 21	1984	466	76	396
Hat-pin	O. J. Jones	555,100	Feb. 25	2320	551	74	986
Hat-pin	A. E. Self	574,007	Dec. 29	3468	829	77	2001
Hat-pin fastener	L. Braun	571,822	Nov. 24	2467	586	77	1159
Hat-pin guide or retainer	I. Fréchet	570,627	Nov. 3	388	92	77	709
Hat-pinning-out machine	C. H. Reid	570,715	Nov. 3	546	127	77	740
Hat-pouncing machine	G. R. Clarke	556,400	Mar. 17	1671	389	74	1474
Hat-pouncing machines. Compound graduated spring for	J. B. Howe	562,300	June 16	2171	528	75	1823
Hat-pouncing machines. Pouncing-head for	J. B. Howe	562,299	June 16	2170	527	75	1823
Hat-rack	J. N. and H. Rohr	567,169	Sept. 8	773	181	76	1440
Hat-retainer	C. E. de Fonblanque	555,689	Mar. 3	350	80	74	1192
Hat-rims, &c. Rotary cutter for cutting or trimming edges of	J. D. Giddings and H. C. Swain	558,487	Apr. 21	1732	419	75	361
Hat-rounding machine. Hand-operated	C. H. Reid	570,734	Nov. 3	584	134	77	746
Hat-securing apparatus	E. R. Standfield and W. Brew	573,492	Dec. 22	2526	598	77	1809
Hat-sizing machine	S. C. Palmer	565,498	Aug. 11	1030	247	76	826
Hat-stand	E. A. Bailey	561,473	June 2	733	160	75	1508
Hat-stiffening machine	L. R. Heim	573,876	Dec. 29	3217	765	77	1955
Hat-sweat	J. E. Frick and C. H. Stoner	562,817	June 30	3080	746	75	2027
Hat, umbrella, and muff holder	T. Collins	561,045	May 26	3105	716	75	1342
Hats and hat-brims. Apparatus for pressing, shaping, and curling	G. Atherton	567,573	Sept. 15	1473	352	76	1582
Hats in stacks. Device for supporting	P. C. Waring	572,284	Dec. 1	348	83	77	1346
Hats. Crease-retaining device for	P. S. Dusenbury	566,267	Aug. 18	2366	579	76	1099
Hats. Machine for veluring felt or silk	H. J. Whyatt	568,391	Sept. 29	2902	698	76	1880
Hatter's shackle	F. L. Butterworth	565,104	Aug. 4	265	63	76	666
Hatch-coaming	A. McDougall	560,362	May 19	1869	426	75	1095
Hatchet	J. R. Balsley	569,161	Oct. 13	767	178	77	162
Hatchet. Nailing	M. Ortenblad	561,809	June 9	1337	320	75	1648
Hatchway-door-operating apparatus	E. D. Toops	560,010	May 12	1211	269	75	925
Hatchway or other doors. Device for automatically controlling closing	F. F. Jackson	563,180	June 30	3736	894	75	2157
Hatchways. Sliding door for inclosed	W. A. Cross	560,396	May 19	1935	442	75	1107
Hay and fodder rack. Combined	T. Meyer	567,838	Sept. 15	1926	461	76	1669
Hay and stock rack	W. and E. C. Daniels	557,652	Apr. 7	239	59	75	45
Hay and stock rack	T. Toohey	555,347	Feb. 25	2750	644	74	1067
Hay and stock rack. Combined	N. S. Hampton and C. H. Randolph	566,574	Aug. 25	2934	716	76	1222
Hay and stock rack. Combined	R. McLane	568,867	Oct. 6	267	62	77	51
Hay-carrier	L. E. Ghering	561,105	June 2	50	13	75	1376
Hay-carrier	M. G. Grosscup	566,681	Aug. 25	3095	756	76	1253
Hay-carrier	W. Loudon	555,605	Mar. 3	205	48	74	1167
Hay-carrier	W. G. Ricker	554,311	Feb. 11	921	212	74	691
Hay-carrier and attachment therefor	W. Loudon	568,953	Oct. 6	405	91	77	77
Hay-carrier and elevator track	J. E. Porter	554,198	Feb. 4	716	162	74	636
Hay-carrier apparatus	W. Loudon	559,588	May 5	402	97	75	761
Hay-carrier attachment	W. Loudon	564,092	July 14	1511	353	76	297
Hay-carrier sling	P. A. Myers	554,136	Feb. 4	622	140	74	618
Hay-carrier track	W. Loudon	555,606	Mar. 3	207	48	74	1168
Hay-carrier track	W. Loudon	555,607	Mar. 3	209	48	74	1168
Hay-carrier track	W. Loudon	555,608	Mar. 3	210	49	74	1169
Hay-carrier track-rail	M. G. Grosscup	562,294	June 16	2161	526	75	1821
Hay-carriers, &c. Rail for	J. E. Porter	570,334	Oct. 27	2893	687	77	585
Hay-elevator jack	H. E. Witmer	559,653	May 5	519	119	75	781
Hay-elevator or carrier	R. W. Iliff	565,990	Aug. 18	1930	467	76	1017
Hay-fork	O. H. Lewis	572,490	Dec. 1	698	167	77	1411
Hay-fork	D. A. Shank	573,709	Dec. 22	2928	692	77	1887
Hay-fork-operating device	J. F. Tuttle	569,437	Oct. 13	1238	290	77	250
Hay-knife	I. B. Beekly	567,373	Sept. 8	1146	275	76	1505
Hay-loader	M. Drolet, D. and U. Marceau	557,978	Apr. 7	804	192	75	152
Hay-loader	S. B. Gilliland and W. R. P. Jackson	565,738	Aug. 11	1451	354	76	906
Hay-loader	J. T. Hare	570,753	Nov. 3	617	142	77	751
Hay-loader	G. W. Packer	554,627	Feb. 11	1475	345	74	795
Hay-loader	W. S. Rhoads	555,618	Mar. 3	222	52	74	1171
Hay-press	C. A. Anderson	558,754	Apr. 21	2178	524	75	443
Hay-press	A. Gibeault	561,882	June 9	1463	354	75	1671
Hay-press	C. E. Jones	573,785	Dec. 22	3039	720	77	1908
Hay-press	W. S. Livengood	568,203	Sept. 22	2585	622	76	1803
Hay-press	A. McIntosh	567,406	Sept. 8	1200	287	76	1516
Hay-press	A. C. Miller and E. A. Johnson	559,303	Apr. 28	3189	771	75	649
Hay-press	E. J. Shirley and C. W. Merrill	558,216	Apr. 14	1253	305	75	254
Hay-rack	F. E. Benson	554,904	Feb. 18	1950	459	74	902
Hay-rack	D. King	558,498	Apr. 21	1746	424	75	363
Hay-rack	J. L. Reeves and J. F. Morris	558,842	Apr. 21	2322	565	75	470
Hay rake and loader	C. W. Baird	560,770	May 26	2635	605	75	1252
Hay rake and loader	D. F. Graham	566,308	Aug. 25	2440	797	76	1129
Hay rake and loader	W. N. Jones	554,519	Feb. 11	1276	299	74	757
Hay rake and loader	J. Kaylor	556,353	Mar. 17	1585	371	74	1458
Hay rake and loader	T. G. and J. H. Threlkeld	570,071	Oct. 27	2375	544	77	488
Hay rake and loader	H. J. Van Nostran	569,688	Oct. 20	1706	404	77	352
Hay-rake. Horse	C. H. Mason	572,647	Dec. 8	981	236	77	1465

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Hay-rake. Horse.....	W. H. Traphagen	564,663	July 28	2491	{ 588 589	{ 76	508
Hay-rake. Horse.....	F. Wiard	559,920	May 12	1049	{ 233 234	{ 75	893
Hay-rake. Side-delivery	J. F. Steward	562,432	June 23	2395	582	75	1281
Hay-rope trip	L. A. Staman	558,998	Apr. 28	2603	634	75	540
Hay-sling	H. L. Ferris	558,486	Apr. 21	1731	418	75	360
Hay-sling pulley-block	L. L. Holser	566,759	Sept. 1	47	12	76	1289
Hay-stacker	J. Millikin	565,685	Aug. 11	1352	329	76	888
Hay-stacker	H. T. Sinclair	560,372	May 19	1888	430	75	1099
Head and neck protector	A. Van Wormer	566,824	Sept. 1	150	35	76	1311
Header	H. C. Burmeister	560,057	May 12	1300	{ 292 293	{ 75	941
Header and means for manufacturing same. Wrought-metal	C. P. Higgins	553,912	Feb. 4	209	43, 44	74	543
Heading-chipper	W. L. Kellogg	565,463	Aug. 11	922	{ 219 220	{ 76	807
Headlight	O. A. Comstock	573,177	Dec. 15	1917	400	77	1682
Headlight	W. S. Hamm	553,406	Jan. 21	1657	396	74	338
Headlight	R. Pattison	558,999	Apr. 14	1063	261	75	218
Headlight and signal. Locomotive	T. Frame	568,605	Sept. 29	3309	794	76	1954
Headlight. Electric-car	J. H. Neal	573,283	Dec. 15	2113	508	77	1717
Headlight for street-cars. Electric	A. C. Thompson	564,036	July 14	1401	326	76	275
Headlight. Locomotive	M. J. Davis	552,989	Jan. 14	926	224	74	187
Headlight. Locomotive	E. L. Hall	564,068	July 14	1466	344	76	288
Head-protector	J. L. Weber	552,557	Jan. 7	97	26	74	20
Head-rest	C. E. Akeley and C. G. Junkermann	556,952	Mar. 24	2613	614	74	1667
Head-rest	J. A. Barker	569,078	Oct. 6	621	141	77	119
Head-rest	W. W. Dirksen	564,874	July 28	2855	684	76	573
Head-rest	G. T. Higgins	573,147	Dec. 15	1869	450	77	1673
Head-rest	C. F. Williams	568,710	Sept. 29	3496	836	76	1990
Heat. Apparatus for utilization of solar	M. L. Severy	567,618	Sept. 15	1543	373	76	1594
Heat bath. Radiant	J. H. Kellogg	558,394	Apr. 14	1554	379	75	310
Heat-insulator	G. C. Hicks	570,634	Nov. 3	399	95	77	711
Heat or draft regulator	L. H. Fisher	569,186	Oct. 13	803	188	77	169
Heat-regulating device. Automatic	J. V. Stout	560,763	May 26	2617	{ 601 602	{ 75	1248
Heat-regulator	E. Frischknecht	554,671	Feb. 18	1547	365	74	825
Heater:							
See Air-heater. Oil-heater.							
Car-heater. Petroleum-heater.							
Electric heater. Portable heater.							
Feed-water heater. Sand-heater.							
Fireplace-heater. Steam-heater.							
Gas-heater. Steam or hot-water heater.							
Glue-heater. Tank-heater.							
Hot-water heater. Tent-heater.							
Hot-water or steam heater. Tire-heater.							
Liquid-heater. Vehicle-heater.							
Water-heater.							
Heater	W. P. Anderson	563,902	July 14	1163	273	76	233
Heater	J. E. Dame	573,451	Dec. 22	2457	583	77	1797
Heater	W. S. Hadaway, Jr., and W. E. Davis	553,308	Jan. 21	1498	359	74	308
Heater	E. C. Hall	570,993	Nov. 10	1030	{ 241 242	{ 77	859
Heater	Z. D. Johns	568,852	Oct. 6	241	56	77	47
Heater	J. Mahedy	571,135	Nov. 10	1298	301	77	907
Heater	A. W. Ringland	569,473	Oct. 13	1288	{ 303 304	{ 77	259
Heater	W. H. Turner	558,124	Apr. 14	1100	269	75	225
Heater	G. A. Watson	573,170	Dec. 15	1899	457	77	1678
Heater	D. S. White	564,402	July 21	2047	480	76	409
Heater and heating-drum	G. F. Anderson	564,464	July 21	2149	502	76	426
Heater and purifier. Combined	J. Bonar	572,955	Dec. 15	1528	366	77	1607
Heater and ventilator	E. Hough	569,381	Oct. 13	1145	273	77	235
Heating and lighting apartments. Device for	P. Fraser	554,591	Feb. 11	1397	328	74	781
Heating and soldering machine	O. S. Fellows	557,366	Mar. 31	3366	{ 808 809	{ 74	1831
Heating and stirring milk, &c. Apparatus for	J. L. Jönsson	555,451	Feb. 25	2945	700	74	1103
Heating and ventilating	W. F. Powers	558,610	Apr. 21	1931	469	75	397
Heating and ventilating apparatus	G. L. Marble	568,954	Oct. 6	407	91	77	78
Heating and ventilating apparatus	W. F. Wolfe	571,423	Nov. 17	1761	420	77	1009
Heating and ventilating apparatus for buildings	W. F. Wolfe	571,424	Nov. 17	1763	{ 420 421	{ 77	1009
Heating and ventilating furnace	H. E. Twitchell and J. Frazer	559,912	May 12	1046	233	75	893
Heating and ventilating rooms or houses. Device for	J. Cinnamon	558,777	Apr. 21	2215	533	75	449
Heating and ventilating system	C. P. Noble	561,688	June 9	1117	266	75	1606
Heating and ventilating system	C. P. Noble	563,677	July 7	744	175	76	140
Heating and ventilating system	C. P. Noble	563,678	July 7	745	{ 175 176	{ 76	140
Heating and ventilating system	C. P. Noble	563,679	July 7	747	176	76	140
Heating apparatus	M. F. Beal	567,575	Sept. 15	1477	353	76	1582
Heating apparatus	R. S. Calef	553,205	Jan. 14	1309	317	74	260
Heating apparatus	N. E. Frost	557,528	Mar. 31	3652	874	74	1883
Heating apparatus	N. E. Frost	558,017	Apr. 7	910	227	75	171
Heating apparatus	N. E. Frost	563,368	July 7	229	52	76	47
Heating apparatus	N. E. Frost	569,151	Oct. 6	753	175	77	143
Heating apparatus	C. C. Mulford	554,713	Feb. 18	1613	{ 380 381	{ 74	839
Heating apparatus	W. H. Page	559,307	Apr. 28	3194	772	75	651
Heating apparatus	C. J. Ridgway	563,984	July 14	1315	307	76	259
Heating apparatus	H. D. Sawyer and W. H. Colcord	556,439	Mar. 17	1754	407	74	1491
Heating apparatus. Air	J. Bartlett	562,565	June 23	2633	{ 637 638	{ 75	1926

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Heating apparatus. Air.....	C. P. Shindler.....	558,215	Apr. 14	1251	{ 304 305 }	75	254
Heating apparatus. Automatic regulator for.....	J. B. Webster.....	563,945	July 14	1243	290	76	246
Heating apparatus. Electric.....	A. E. Appleyard.....	571,257	Nov. 10	1488	350	77	943
Heating apparatus. Electric.....	M. W. Dewey.....	566,564	Aug. 25	2921	713	76	1220
Heating apparatus. Electric.....	R. A. L. Snyder and A. F. Tinner- holm.....	566,545	Aug. 25	2899	{ 706 707 }	76	1216
Heating apparatus for buildings. Hot-water.....	W. N. Wemmer.....	553,199	Jan. 14	1298	314	74	256
Heating. Apparatus for dynamic.....	A. Schultz.....	561,445	June 2	624	169	75	1499
Heating apparatus. Gas.....	M. L. Nyberg.....	569,658	Oct. 20	1644	388	77	342
Heating apparatus. Hot-water.....	E. E. Clark.....	557,189	Mar. 31	3040	{ 727 728 }	74	1770
Heating apparatus. Hot-water.....	H. R. Miller.....	556,828	Mar. 24	2415	567	74	1630
Heating apparatus. Hot-water.....	J. C. Norton.....	568,872	Oct. 6	275	63. 64	77	53
Heating apparatus. Regulating device for low-pres- sure steam.....	C. Obrebowicz.....	556,860	Mar. 24	2460	579	74	1640
Heating apparatus. Steam.....	G. A. Barnard.....	563,904	July 14	1171	275	76	234
Heating apparatus. Steam.....	E. A. Field.....	557,530	Mar. 31	3656	875	74	1884
Heating apparatus. Steam or hot-water.....	C. A. Sawin.....	558,665	Apr. 21	2032	489	75	415
Heating attachment.....	D. P. Myers.....	561,020	May 26	3062	705	75	1334
Heating-boiler.....	E. A. Wood.....	571,208	Nov. 10	1405	329	77	928
Heating-burner.....	H. Rosenthal and L. Kramer.....	570,771	Nov. 3	647	148	77	756
Heating devices. Switch for electric.....	J. E. Meek and F. L. Powers.....	568,763	Oct. 6	124	29	77	25
Heating. Electric.....	C. S. Bradley.....	558,714	Apr. 21	2108	510	75	430
Heating-furnace.....	F. E. Browne.....	566,133	Aug. 18	2160	526	76	1059
Heating-furnace.....	S. Forter.....	555,656	Mar. 3	617	148	74	1243
Heating-furnace.....	J. H. Reader.....	556,899	Mar. 24	2534	597	74	1652
Heating greenhouses. Plant for.....	E. N. and D. B. Kroninger.....	564,756	July 28	2663	633	76	538
Heating system.....	J. C. Feibiger, Jr.....	552,753	Jan. 7	458	114	74	86
Heating system.....	W. P. Skiffington.....	556,562	Mar. 17	1966	460	74	1529
Heating system. Hot-water.....	W. H. Hollowell.....	566,077	Aug. 18	2060	502	76	1049
Heating system. Hot-water.....	W. H. Hollowell.....	567,593	Sept. 15	1510	363	76	1588
Heating systems. Air-valve for hot-water.....	W. B. Van Sickle.....	570,073	Oct. 27	2385	566	77	490
Heddle.....	L. Knecht.....	567,396	Sept. 8	1185	283	76	1513
Heddle for leno-weaving. Doup.....	W. H. Redding.....	571,795	Nov. 24	2424	578	77	1151
Heddle-machine.....	P. M. Point.....	554,374	Feb. 11	1022	237	74	710
Heddle-rod tightener.....	F. A. Garnsey.....	555,086	Feb. 25	2293	546	74	980
Hedge-plashing implement.....	J. A. Mitchell.....	573,343	Dec. 15	2226	532	77	1737
Hedge-trimmer.....	E. C. and A. M. Gordon.....	553,116	Jan. 14	1150	279	74	230
Hedges. Training.....	L. Matthews.....	569,720	Oct. 20	1778	422	77	364
Heel and toe protector. Electric.....	J. A. Blair.....	559,254	Apr. 23	3116	753	75	637
Heel-attaching machine.....	F. F. Raymond, 2d.....	561,608	June 9	978	{ 233 234 }	75	1580
Heel-attaching machines. Nail block or plate for.....	H. A. Webster.....	559,554	May 5	352	85	75	751
Heel-beading machine.....	J. M. Grogan.....	560,136	May 12	1452	327	75	791
Heel. Boot or shoe.....	J. D. Kaestner.....	556,504	Mar. 17	1876	437	74	1513
Heel. Boot or shoe spring.....	J. Bresman.....	572,103	Dec. 1	14	4	77	1281
Heel-building machine.....	E. S. Gross.....	569,711	Oct. 20	1763	419	77	361
Heel burnishing tool. Boot or shoe.....	Z. Beaudry.....	560,832	May 26	2736	628	75	1273
Heel compressing and loading machine.....	F. F. Raymond, 2d.....	566,336	Aug. 25	2492	611	76	1139
Heel-compressing machine.....	C. F. Lambert.....	565,467	Aug. 11	930	{ 222 223 }	76	808
Heel. Detachable.....	M. R. Vandervoort.....	570,830	Nov. 3	749	170	77	778
Heel for boots or shoes. Spring.....	A. M. Cushing.....	554,988	Feb. 13	2095	499	74	929
Heel for shoes. Spring.....	H. D. Richey.....	555,402	Feb. 25	2843	670	74	1084
Heel-former and nail-driver.....	S. Ross.....	569,938	Oct. 20	2146	508	77	432
Heel molding and loading machine.....	F. F. Raymond, 2d.....	559,769	May 5	756	{ 181 182 }	75	825
Heel-nail.....	G. A. Curtis.....	574,140	Dec. 29	3706	984	77	2044
Heel nailing and compressing machine.....	F. F. Raymond, 2d.....	570,437	Oct. 27	3087	{ 732 733 734 }	77	621
Heel-nailing machine.....	C. W. Glidden.....	571,087	Nov. 10	1201	282	77	890
Heel-nailing machine.....	C. W. Glidden and A. D. Elliott.....	555,241	Feb. 25	2557	601	74	1030
Heel-nailing machine.....	F. F. Raymond, 2d.....	561,607	June 9	976	233	75	1580
Heel-nailing machine.....	F. F. Raymond, 2d.....	561,611	June 9	965	236	75	1582
Heel-nailing machine.....	F. F. Raymond, 2d.....	569,055	Oct. 6	587	134	77	112
Heel-nailing machine.....	F. F. Raymond, 2d.....	569,517	Oct. 13	1377	{ 323 324 }	77	276
Heel-nailing machine.....	F. F. Raymond, 2d.....	570,648	Nov. 3	423	{ 100 101 }	77	716
Heel-plate. Boot or shoe.....	R. McKay.....	570,707	Nov. 3	537	124	77	738
Heel-plate for shoes, &c.....	C. A. Sage.....	555,709	Mar. 3	381	88	74	1198
Heel-spring.....	F. McDonald.....	553,128	Jan. 14	1166	283	74	234
Heel-sweep.....	H. D. Terrell.....	560,603	May 19	2287	524	75	1171
Heel-stiffener.....	W. H. Buell.....	559,672	May 5	545	126	75	766
Heel trimming and randing machine.....	A. S. Vose.....	560,825	May 26	2719	625	75	1269
Heel-trimming machine.....	C. W. Glidden.....	555,240	Feb. 25	2554	601	74	1030
Heel-trimming machine.....	E. H. Taylor.....	560,378	May 19	1898	{ 432 433 }	75	1101
Heel-trimming pattern and holding device therefor.....	C. F. Babcock.....	569,484	Oct. 13	1307	308	77	263
Heels with nails. Machine for loading.....	E. Woodward.....	562,944	June 30	3317	{ 799 800 }	75	2076
Heels with nails. Machine for loading.....	E. Woodward.....	570,654	Nov. 3	436	{ 104 105 }	77	719
Helmet. Smoke.....	C. G. M. Reichel.....	571,018	Nov. 10	1077	251	77	867
Hemmer.....	F. L. Goodrich and R. S. Barnum.....	569,578	Oct. 13	1499	353	77	299
Hemmer.....	A. Laubscher.....	560,416	May 19	1971	451	75	1114
Hemp and flax cleaner.....	A. Angell.....	558,921	Apr. 28	2478	602	75	515
Hermetically-sealed vessel.....	A. L. Weissenthanner.....	566,952	Sept. 1	371	86	76	1353
Hide unhairing and working machine.....	A. E. Whitney.....	552,628	Jan. 7	211	58. 59	74	42
Hide-working cylinder.....	A. E. Whitney.....	570,653	Nov. 3	434	103	77	719
Hides from carcasses. Means for effecting removal of.....	W. J. McCausland.....	561,021	May 26	3064	705	75	1334

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Hides, skins, or leather. Machine for treating	W. Evans	556,813	Mar. 24	2389	562	74	1625
Hides, skins, or leather. Machine for treating	W. Evans	572,533	Dec. 8	777	186	77	1441
Hides, skins, or leather. Machine for treating	J. Hall	559,976	May 12	1150	257	75	915
High or low water alarm	H. F. Cook	558,161	Apr. 14	1157	283	75	236
High-temperature furnace	H. L. Gantt	559,940	May 12	1087	{ 241 242 }	75	899
Hinge.	L. Bartelmes	573,197	Dec. 15	1956	470	77	1689
Hinge.	R. Black	557,473	Mar. 31	3546	847	74	1865
Hinge.	P. E. Cabaret	563,133	June 30	3666	877	75	2143
Hinge.	A. S. Held	565,963	Aug. 18	1913	464	76	1013
Hinge.	J. H. Lawrence	568,316	Sept. 22	2776	668	76	1841
Hinge.	T. Rhodes	569,474	Oct. 13	1291	304	77	260
Hinge.	W. Smith	571,408	Nov. 17	1737	415	77	1005
Hinge.	H. B. Titus and H. J. Knapp	563,432	July 7	334	75	76	66
Hinge.	J. M. Young	561,468	June 2	727	{ 178 179 }	75	1507
Hinge and catch. Combined	L. L. Pletcher	555,583	Mar. 3	167	39	74	1161
Hinge and check. Combined door	A. Allger	557,936	Apr. 7	723	174	75	137
Hinge and window-lock. Adjustable.	R. R. Strain	563,430	July 7	332	75	76	65
Hinge. Antifriction.	T. Corscaden	563,450	July 7	362	83	76	70
Hinge. Blind.	T. Corscaden	553,955	Feb. 4	280	63	74	556
Hinge. Blind.	G. W. Parker	553,931	Feb. 4	241	52	74	550
Hinge. Blind.	J. H. Shull	573,544	Dec. 22	2611	620	77	1826
Hinge. Blind.	W. E. Stevens	553,970	Feb. 4	305	88	74	561
Hinge. Box.	C. L. Feinberg	554,919	Feb. 18	1975	466	74	907
Hinge. Couch or bed.	A. Huttlinger	571,194	Nov. 10	1384	323	77	924
Hinge. Desk.	H. M. Lambert	562,901	June 30	3234	781	75	2057
Hinge. Detachable	M. W. Nott	563,680	July 7	748	176	76	141
Hinge. Gate.	W. J. Crawford	561,494	June 2	767	188	75	1514
Hinge. Gate.	J. J. Kelleher and H. Irwin	566,323	Aug. 25	2474	606	76	1136
Hinge. Gate.	M. Morgan	571,383	Nov. 17	1701	405	77	998
Hinge. Gate.	J. L. Wilson	568,967	Oct. 6	431	96	77	83
Hinge. Lock.	C. A. Donaldson	563,142	June 30	3678	880	75	2145
Hinge. Roller-bearing	W. H. Dicke and A. H. Gaertner	564,055	July 14	1450	338	76	285
Hinge-setting tool	G. D. Sweeny	560,869	May 26	2821	646	75	1288
Hinge. Spring.	F. Brucker	552,815	Jan. 7	599	146	74	112
Hinge. Spring.	H. A. Hoffman	571,133	Nov. 10	1295	301	77	907
Hinge. Spring.	H. F. Keil	554,447	Feb. 11	1162	270	74	737
Hinge. Spring.	F. P. Rider and H. P. Collier	566,621	Aug. 25	3000	732	76	1236
Hinge. Spring.	J. Schlutter	567,727	Sept. 15	1732	415	76	1632
Hinge. Spring.	E. P. Sedgwick	573,713	Dec. 22	2933	693	77	1888
Hitching device.	H. W. Chamberlain	556,917	Mar. 24	2562	604	74	1658
Hitching device.	E. Hummel	566,319	Aug. 25	2466	604	76	1134
Hitching device. Horse.	U. E. Miller and P. Barringer	557,005	Mar. 24	2719	644	74	1687
Hitching post.	T. I. Ashton	556,798	Mar. 24	2363	556	74	1621
Hitching post.	I. W. Lewis	566,196	Aug. 18	2259	553	76	1078
Hitching post.	W. B. Musselman	560,299	May 19	1762	401	75	1076
Hitching post.	A. N. Spratt	554,963	Feb. 18	2048	485	74	920
Hitching post.	H. Wire	566,832	Sept. 1	161	38	76	1313
Hitching post and cut-off plug. Combination.	W. E. Davis and S. A. Miller	569,819	Oct. 20	1943	462	77	394
Hobby-horse	F. J. Smith	555,536	Mar. 3	89	20	74	1146
Hoe. Mortar.	W. H. Dickson	565,379	Aug. 4	776	184	76	761
Hoe, rake, and cultivator. Combined	W. H. Wheeler	556,389	Mar. 17	1651	386	74	1470
Hoe. Shufle.	H. A. Parcells	568,143	Sept. 22	2491	599	76	1786
Hog catching and holding implement	J. L. Smith	567,049	Sept. 1	559	130	76	1388
Hog catching and lifting machine.	O. Gates	572,792	Dec. 8	1247	301	77	1534
Hog-grappler	M. J. Murphy	554,714	Feb. 18	1615	381	74	839
Hog-ringing device	J. P. Honaker	559,383	May 5	57	13	75	691
Hog scalding and suspending apparatus	D. W. Inman	563,965	July 14	1282	{ 300 301 }	76	253
Hog-scalding apparatus.	D. W. Inman	568,028	Sept. 22	2270	549	76	1745
Hog suspending and holding device.	J. E. Vannote	558,006	Apr. 7	888	223	75	166
Hog-trough	J. R. Lucas	564,207	July 21	1719	402	76	349
Hog-trough	W. H. Thayer	561,453	June 2	700	172	75	1502
Hogs. Apparatus for gathering, elevating, and transporting	S. Dederick	555,233	Feb. 25	2542	599	74	1028
Hoist, &c.	J. W. Martin	573,678	Dec. 22	2878	679	77	1877
Hoist.	H. Meier	554,890	Feb. 18	1927	454	74	898
Hoist and dump for grain or coal.	P. Muller	562,844	June 30	3133	758	75	2037
Hoist. Cable.	W. Düsedau	566,848	Sept. 1	193	43, 44	76	1319
Hoist. Differential spur-gear.	T. H. Craig	554,658	Feb. 18	1527	361	74	821
Hoist-drum	H. B. Denton	574,085	Dec. 29	3599	{ 860 861 }	77	2025
Hoisting and conveying apparatus. Cable	W. Düsedau	566,849	Sept. 1	194	44, 45	76	1320
Hoisting and conveying apparatus. Rail-clamp for.	P. Rasch	568,071	Sept. 22	2351	567	76	1759
Hoisting and conveying machine	A. H. De Camp	553,778	Jan. 28	2296	{ 544 545 }	74	473
Hoisting and dumping apparatus	C. L. Carman	552,513	Jan. 7	19	6, 7	74	7
Hoisting and dumping platform.	J. D. Brown and J. A. Cleaveland	572,468	Dec. 1	667	157	77	1406
Hoisting and pumping apparatus	F. H. Nease	561,723	June 9	1191	283	75	1620
Hoisting and stone-laying apparatus.	G. Hunter	571,122	Nov. 10	1275	{ 295 296 }	77	903
Hoisting and unloading railway-cars. Apparatus for.	P. Rasch	556,371	Mar. 17	1622	{ 379 380 }	74	1465
Hoisting apparatus	H. Aiken	574,127	Dec. 29	3683	{ 877 878 }	77	2040
Hoisting apparatus	C. W. Hunt	555,703	Mar. 3	371	86	74	1196
Hoisting apparatus	A. Larsen	569,046	Oct. 6	568	131	77	108
Hoisting apparatus	J. T. O'Neill and J. A. Currie	558,302	Apr. 14	1393	340	75	281
Hoisting-cages. Automatic car-holder for	J. R. Campbell	569,999	Oct. 27	2250	534	77	463
Hoisting, carrying, and lowering mechanism. Automatic	J. F. Reinert	568,990	Oct. 6	481	109	77	92
Hoisting-chains. Grab for	J. Dudley	569,448	Oct. 13	1256	295	77	253
Hoisting device	A. Bogardus	565,402	Aug. 4	817	193	76	768

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Hoisting device	J. S. McGehee	560,145	May 12	1469	{ 331 332 193 194 195	75	974
Hoisting-engine	J. S. Lane and F. P. Mills	552,912	Jan. 14	797	{ 507 508	74	162
Hoisting-engine	F. W. Scott	556,699	Mar. 17	2171	{ 47, 48	74	1568
Hoisting-machine	H. Bolthoff	568,832	Oct. 6	198	77	39	
Hoisting-machine	J. A. McGregor	573,904	Dec. 29	3263	779	77	1964
Hoisting-machine brake	C. E. Maris	554,131	Feb. 4	615	139	74	617
Hoisting mechanism	D. S. Regan	558,108	Apr. 14	1074	264	75	220
Hoisting-works indicator	C. Johnson	554,782	Feb. 18	1734	{ 406 407	74	861
Holdback	W. A. Warner, J. D. Hays, and W. S. Rogers	556,229	Mar. 10	1327	311	74	1394
Holdback. Buggy- Hominy or hulled cereals. Process of and apparatus for producing	S. J. Friend and C. P. Brown	574,318	Dec. 29	4058	963	77	2108
Honey-section press and foundation-fastener. Combined	K. Hopkiss	563,859	July 14	1082	255	76	218
Hoof-trimmer	H. Rauchfuss	553,936	Feb. 4	249	54	74	551
Hoof-wink	E. and U. S. De Moulin	562,071	June 16	1807	436	75	1754
Hoof-protecting plate	J. N. Le Vasseur dit Belisle	562,085	June 16	1826	444	75	1758
Hoof protector. Horse's- Hoof-spreader	W. C. Sherman	568,961	Oct. 6	420	94	77	80
Hoof-trimmer	J. Trenkle	557,455	Mar. 31	3515	840	74	1859
Hook	W. W. Grogan and J. H. Wax	562,526	June 23	2546	619	75	1909
See Cant-hook. Harness-strap hook. Chain-hook. Hat or coat hook. Check-hook. Lacing-hook. Checkrein-hook. Ladder-hook. Coat and hat hook. Safety-hook. Crochet-hook. Singletree-hook. Display-hook. Snap-hook. Fish-hook. Swivel-hook. Garment-hook. Tape-line hook. Gate or door hook. Toe-pad hook. Grab-hook. Trace or hame hook. Hame-hook. Trolling-hook. Hammock-support- Unchecking-hook. ing hook. Whiffletree-hook. Hand-hook.							
Hook	F. M. Converse	564,326	July 21	1915	452	76	384
Hook	C. L. Lewis and C. E. Mixer	570,855	Nov. 3	794	182	77	786
Hook	K. F. Malyon	562,314	June 16	2195	533	75	1827
Hook and eye	J. H. Akers	563,637	July 7	673	158	76	126
Hook and eye	M. G. Botto	569,607	Oct. 20	1553	365	77	324
Hook and eye	F. A. Decker	564,821	July 28	2766	637	76	556
Hook and eye	A. Graff	559,484	May 5	236	53	75	728
Hook and eye	N. Hyle	573,879	Dec. 29	3222	766	77	1956
Hook and eye	H. B. Kelly	561,403	June 2	604	150	75	1485
Hook and eye	E. A. Johnson	555,513	Mar. 3	50	11	74	1139
Hook and eye	E. M. D. Landenberger	558,819	Apr. 21	2287	555	75	463
Hook and eye	E. M. Quereau	569,767	Oct. 20	1860	441	77	378
Hook and eye	F. J. Rappold	564,255	July 21	1795	420	76	363
Hook and eye	M. O. Rehfuess	561,437	June 2	673	165	75	1497
Hook and eye	J. F. Schoeppel	558,616	Apr. 21	1940	470	75	399
Hook and eye	J. F. Schoeppel and W. E. Heeren	558,115	Apr. 14	1083	{ 265 266	75	222
Hook and eye	M. Shearer	552,783	Jan. 7	526	129	74	99
Hook and eye	W. Walton	568,221	Sept. 22	2620	630	76	1811
Hook and eye	A. M. Weber	567,528	Sept. 8	1388	374	76	1550
Hook-and-eye-carding machine	J. E. Richard	561,341	June 2	493	{ 124 125	75	1465
Hook and eye for garments	A. Donnellon	572,528	Dec. 8	771	183	77	1440
Hook and eye for garments, &c	J. J. Springer	561,289	June 2	401	99	75	1448
Hook-fastener	J. W. Willard	562,688	June 23	2830	687	75	1962
Hook-fastening for garments	C. Jonas	555,008	Feb. 13	2138	509	74	936
Hooks and eyes, &c. Fastening device for	J. Matthews and K. Mott	557,850	Apr. 7	583	139	75	110
Hooks, &c., in ceilings or other high structures. Means for securing screw	H. P. Seymour	562,041	June 16	1741	421	75	1743
Hooks. Locking device for spring safety- Hoop:	O. Fechner	558,056	Apr. 14	994	242	75	204
See Musical hoop. Pie-tin hoop.							
Hoop	J. Jones	554,446	Feb. 11	1161	270	74	736
Hoop	C. R. Smith	555,712	Mar. 3	385	89	74	1198
Hoop-coiling machine	G. A. Ensign	566,506	Aug. 25	2837	{ 690 691	76	1203
Hoop-cutting machine	N. N. Fairchild	563,435	Sept. 29	2977	{ 715 716 205	76	1893
Hoop-driving machine	A. Lieber	559,856	May 12	925	{ 206 207	75	871
Hoop-making machine	E. S. Foster	553,282	Jan. 21	1457	350	74	301
Hoop setting or driving machine	M. Naughton	566,006	Aug. 15	1952	473	76	1021
Hoop-shaving machine	C. N. Smith	553,570	Jan. 28	1948	{ 459 460	74	408
Hoops, handles, and carriage material. Machine for making	J. Fowley	568,671	Sept. 29	3430	{ 820 821	76	1977
Hoops. Machine for trussing or driving keg or barrel.	J. J. George	565,736	Aug. 11	1449	353	76	905
Hop-drier	G. L. Jaeger	556,150	Mar. 10	1188	278	74	1369
Hop-picker	B. F. Moore and C. A. Weller	563,504	July 7	458	{ 107 108	76	88
Hop-picking machine	S. Hemingway	566,173	Aug. 18	2218	{ 540 541	76	1070

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Hop-training strings. Stump for holding.....	R. Fuller.....	553,235	Jan. 21	1357	{ 330 331	} 74	283
Hop-twinning mechanism.....	R. Parrish.....	566,092	Aug. 18	2084	508		1046
Hopper. Stock.....	J. M. Davis.....	567,020	Sept. 1	506	119	76	1377
Hopple. Pneumatic.....	J. D. Keller.....	556,314	Mar. 10	1513	352	74	1429
Horns of beeves. Guard for.....	J. L. Straw.....	557,170	Mar. 31	3000	715	74	1765
Horse-blanket.....	J. H. Dailey.....	554,244	Feb. 11	804	183	74	668
Horse-canopy.....	J. F. Pittenger and Z. B. Brelsford.....	554,792	Feb. 18	1746	409	74	864
Horse-check.....	C. Lee.....	564,330	July 21	1922	454	76	385
Horse-checking device.....	F. A. Clark.....	565,430	Aug. 11	865	204	76	797
Horse-checking device.....	G. E. Hutton.....	565,681	Aug. 11	1348	328	76	887
Horse-checking device.....	J. A. Mullen.....	562,016	June 16	1696	412	75	1735
Horse-chin-rest.....	J. F. McLennan.....	572,648	Dec. 8	984	237	77	1485
Horse-cleaner.....	P. M. Donahoo.....	573,579	Dec. 22	2670	633	77	1838
Horse-detacher.....	J. E. Berkstresser.....	554,905	Feb. 18	1952	459	74	903
Horse-detacher.....	J. B. Domleo and G. W. Woodworth.....	566,972	Sept. 1	422	99	76	1361
Horse-detacher.....	F. C. Grothjan.....	560,710	May 26	2528	580	75	1232
Horse-detacher.....	L. R. Hertert.....	552,706	Jan. 7	360	94	74	70
Horse-detacher.....	L. R. McKinney and W. French.....	566,789	Sept. 1	91	22	76	1297
Horse-detacher.....	E. Naumann.....	570,606	Nov. 3	319	79	77	697
Horse-detacher.....	G. Townsend.....	566,946	Sept. 1	361	84	76	1351
Horse-detacher.....	H. B. Weiper.....	553,440	Jan. 21	1711	408	74	348
Horse-detacher and brake. Combined.....	J. Friedlander.....	557,373	Mar. 31	3378	811	74	1833
Horse-detaching device.....	W. C. Brown.....	568,854	Oct. 6	201	48	77	40
Horse-detaching device.....	J. Friedlander.....	554,118	Feb. 4	590	133	74	611
Horse-driver.....	G. W. Rickard.....	561,283	June 2	390	98	75	1446
Horse-holding device.....	M. Moyer.....	559,861	May 12	939	209	75	873
Horse interfering device.....	M. Haughey.....	555,041	Feb. 18	2206	526	74	947
Horse neck-strap.....	R. F. Newman.....	572,024	Nov. 24	2824	666	77	1226
Horse-power.....	H. A. Krupke.....	560,139	May 12	1457	328	75	972
Horse-power.....	J. C. Leslie.....	562,006	June 16	1680	409	75	1732
Horse-power.....	T. F. Marquand.....	556,583	Mar. 17	2002	468	74	1536
Horse-power.....	J. W. Storey.....	564,119	July 14	1562	367	76	307
Horse-power.....	S. E. Strobel and W. C. Cone.....	559,914	May 12	1042	{ 231 232	} 75	892
Horse-powers. Whipping attachment for.....	W. S. Livengood.....	568,778	Oct. 6	117	27, 28	77	24
Horse-releasing device.....	S. L. Wilson.....	565,062	Aug. 4	171	40	76	649
Horse-shade.....	H. A. Melville.....	566,783	Sept. 1	79	20	76	1295
Horse-shield.....	O. D. Shank.....	566,480	Aug. 25	2801	681	76	1197
Horse-tail guard.....	P. von Lackum.....	553,810	Jan. 28	2353	560	74	483
Horses. Apparatus for stopping runaway.....	P. Arriaran.....	555,356	Feb. 25	2767	648	74	1070
Horses. Device for stopping runaway.....	W. Crawford.....	552,747	Jan. 7	449	112	74	85
Horses while shoeing. Device for securing.....	J. E. Schneider.....	556,778	Mar. 24	2335	550	74	1615
Horseshoe.....	F. H. Bramble.....	562,567	June 23	2636	638	75	1926
Horseshoe.....	A. H. Carroll.....	555,361	Feb. 25	2777	651	74	1072
Horseshoe.....	N. Chilcote and C. Leffler.....	565,960	Aug. 18	1856	451	76	1001
Horseshoe.....	A. J. Clark.....	573,503	Dec. 23	2544	603	77	1813
Horseshoe.....	T. G. Dellinger.....	570,278	Oct. 27	2752	655	77	560
Horseshoe.....	E. W. Enge.....	562,762	June 23	2964	718	75	1989
Horseshoe.....	B. G. Fox.....	567,740	Sept. 15	1755	420	76	1636
Horseshoe.....	F. J. T. Geissmer.....	572,002	Nov. 24	2794	659	77	1220
Horseshoe.....	J. B. Gillespie.....	557,665	Apr. 7	261	63	75	49
Horseshoe.....	J. B. Gravis.....	556,818	Mar. 24	2397	563	74	1627
Horseshoe.....	J. Hempling.....	552,958	Jan. 14	878	213	74	178
Horseshoe.....	A. Juillard.....	562,302	June 16	2175	{ 528 529	} 75	1824
Horseshoe.....	W. J. Kent.....	553,344	Jan. 21	1558	372	74	319
Horseshoe.....	W. J. Kent.....	553,586	Jan. 28	1980	469	74	414
Horseshoe.....	H. Köchert.....	553,168	Jan. 14	1237	301	74	246
Horseshoe.....	F. E. McCarthy.....	570,493	Nov. 3	105	26	77	658
Horseshoe.....	J. W. Rogers.....	560,235	May 19	1646	375	75	1057
Horseshoe.....	C. F. Roper.....	566,020	Aug. 18	1974	479	76	1026
Horseshoe.....	C. T. Tyler.....	568,055	Sept. 22	2325	562	76	1754
Horseshoe.....	T. C. Weekes.....	562,505	June 23	2509	608	75	1902
Horseshoe.....	G. W. Willoughby.....	556,653	Mar. 17	2105	492	74	1555
Horseshoe-calk.....	J. C. Higgins.....	567,139	Sept. 8	726	170	76	1431
Horseshoe-calk.....	B. Koelzer and J. Thaney.....	568,857	Oct. 6	248	58	77	48
Horseshoe-calk.....	W. S. Logan.....	558,560	Apr. 21	1837	447	75	381
Horseshoe-calk extractor.....	J. W. Johnson.....	559,803	May 12	785	189	75	845
Horseshoe-calk-forming machine.....	G. A. Steiner and S. S. Babbitt.....	552,592	Jan. 7	152	42, 43	74	30
Horseshoe-calk. Removable.....	A. Weigand.....	563,341	July 7	192	43	76	39
Horseshoe-creeper.....	L. Hall and A. Petzold.....	572,256	Dec. 1	287	69	77	1334
Horseshoe. Cushioned.....	F. W. Hahn.....	569,009	Oct. 6	508	115	77	97
Horseshoe detachable calk.....	H. Sachs.....	558,847	Apr. 21	2331	567	75	471
Horseshoe. Elastic-tread.....	T. Lewty.....	558,455	Apr. 14	1671	402	75	333
Horseshoe. Elastic-tread.....	A. Loeffler.....	557,407	Mar. 31	3443	825	74	1845
Horseshoe. Elastic-tread.....	J. Louis.....	556,154	Mar. 10	1196	279	74	1371
Horseshoe-machine.....	J. W. Crow.....	572,870	Dec. 8	1362	329	77	1558
Horseshoe. Marsh.....	H. R. and S. E. Myers and L. D. Carl.....	554,787	Feb. 18	1741	408	74	862
Horseshoe. Marsh.....	G. A. Randall.....	566,017	Aug. 18	1969	477	76	1025
Horseshoe-nail.....	D. E. Kempster.....	553,167	Jan. 14	1232	300	74	246
Horseshoe-nail blanks. Machine for feeding.....	W. P. Whitmarsh.....	573,580	Dec. 22	2637	{ 626 627 628	} 77	1831
Horseshoe-nail clencher.....	J. H. Ranck.....	570,185	Oct. 27	2580	613	77	528
Horseshoe-nail machines. Feeding apparatus for.....	I. Tjerneld.....	555,715	Mar. 3	389	91	74	1199
Horseshoe. Nailless.....	C. Eisenberg.....	569,623	Oct. 20	1576	371	77	329
Horseshoe. Nailless.....	J. McGurn.....	566,089	Aug. 18	2080	507	76	1045
Horseshoe. Nailless.....	G. L. and A. H. Reynolds and R. N. Hudson.....	552,935	Jan. 14	819	199	74	167
Horseshoe-pad.....	W. E. Jennings.....	569,022	Oct. 6	529	122	77	100
Horseshoe. Sectional.....	F. W. Barcafer.....	560,564	May 19	2315	506	75	1157
Horseshoe. Soft-tread.....	H. F. Boehmer.....	560,119	May 12	1425	320	75	966
Horseshoe. Soft-tread.....	J. Freyne.....	561,217	June 2	246	59	75	1415

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Horseshoe. Soft-tread.....	F. W. Hahn.....	572,602	Dec. 8	907	219	77	1470
Horseshoe toe-calk.....	W. J. Kent.....	553,345	Jan. 21	1560	373	74	319
Horseshoe with detachable calks.....	K. T. Rennerfelt.....	556,278	Mar. 10	1449	339	74	1417
Horseshoes. Adjustable ice attachment for.....	W. H. Hackley.....	565,455	Aug. 11	911	217	76	805
Horseshoes. Device for forming heel-calks on.....	P. M. Pramer.....	572,125	Dec. 1	56	14	77	1288
Horseshoes. Nailless fastening for.....	C. Eisenberg.....	564,245	July 21	1775	415	76	361
Horseshoes. Punching-machine for making nail-holes in.....	W. J. Kent.....	553,585	Jan. 28	1978	468	74	414
Horseshoeing-rack.....	J. L. Ream.....	570,682	Nov. 3	492	115	77	730
Horseshoeing-stand.....	D. Ménard.....	554,944	Feb. 18	2014	477	74	913
Hose.....	W. F. Bowers.....	554,649	Feb. 18	1510	354	74	818
Hose and pipe coupling.....	E. J. Precourt.....	557,019	Mar. 24	2750	652	74	1693
Hose-band.....	H. S. Teal and J. W. Crate.....	554,155	Feb. 4	656	148	74	625
Hose-bracket. Swinging.....	L. T. Foreman.....	566,853	Sept. 1	200	46	76	1321
Hose bridge. Street-car fire.....	S. B. Sweeney and B. F. Clark.....	556,382	Mar. 17	1641	394	74	1468
Hose-carriage.....	V. Spindler.....	570,237	Oct. 27	2682	637	77	547
Hose-clamp.....	C. Sparks.....	565,698	Aug. 11	1375	335	76	893
Hose-coupling.....	J. S. Blackburn.....	574,236	Dec. 29	3930	935	77	2084
Hose-coupling.....	R. W. Burkhardt.....	571,212	Nov. 10	1411	330	77	929
Hose-coupling.....	W. C. Colwell.....	558,355	Apr. 14	1479	363	75	297
Hose-coupling.....	S. W. Day.....	568,841	Oct. 6	211	50	77	42
Hose-coupling.....	J. F. E. Feltner.....	554,666	Feb. 18	1537	363	74	823
Hose-coupling.....	P. E. Guérard.....	571,361	Nov. 17	1663	394	77	991
Hose-coupling.....	A. G. Kinyon.....	559,389	May 5	65	15	75	693
Hose-coupling.....	A. G. Kinyon.....	559,390	May 5	67	15	75	693
Hose-coupling.....	E. J. Knapp.....	574,067	Dec. 29	3572	853	77	2020
Hose-coupling.....	T. A. Outhouse and A. E. Bohlen.....	557,423	Mar. 31	3467	831	74	1850
Hose-coupling.....	W. A. Shaver.....	562,855	June 30	3154	764	75	2041
Hose-coupling.....	A. B. Sheridan.....	559,911	May 12	1039	230	75	891
Hose-coupling.....	E. F. Wallace.....	563,898	July 14	1159	272	76	232
Hose coupling and stop-valve. Combined air.....	S. R. Heideberg.....	565,981	Aug. 18	1909	463	76	1012
Hose-hanger.....	B. S. McClellan.....	565,780	Aug. 11	1524	371	76	919
Hose-holder.....	H. J. M. Howard.....	555,574	Mar. 3	152	36	74	1158
Hose-lining apparatus.....	B. L. Stowe.....	553,877	Feb. 4	123	24	74	528
Hose-machine.....	R. T. Burchell.....	571,261	Nov. 10	1497	352	77	945
Hose-mender.....	J. J. Cooper.....	567,962	Sept. 22	2132	514	71	1722
Hose-nozzle.....	C. Callahan.....	570,903	Nov. 10	881	205	77	831
Hose-nozzle.....	J. M. and A. W. Dosch.....	553,454	Jan. 21	1798	412	74	352
Hose-nozzle.....	J. R. Freeman.....	568,342	Sept. 29	2828	681	76	1865
Hose-nozzle.....	C. Hirsch.....	570,757	Nov. 3	625	144	77	753
Hose-nozzle.....	J. J. Ledden.....	571,048	Nov. 10	1124	263	77	877
Hose-nozzle.....	H. Nicholsburg.....	553,999	Feb. 4	361	79	74	571
Hose-nozzle.....	J. W. Regan.....	568,876	Oct. 6	280	65	77	54
Hose-nozzle.....	A. J. Reynolds.....	571,799	Nov. 24	2430	579	77	1152
Hose-nozzle.....	R. Wise.....	564,239	July 21	1767	413	76	359
Hose. Nozzle-holder and spraying attachment for garden.....	G. J. Rollandet and W. B. Gray.....	553,940	Feb. 4	254	55	74	552
Hose-nozzles. Outlet-closing device for.....	J. H. Melavin.....	565,290	Aug. 4	634	150	76	733
Hose or sprinkler nozzle.....	I. J. Turner.....	566,291	Mar. 10	1475	343	74	1422
Hose-pipe nozzle. Adjustable.....	H. H. Gorter.....	557,799	Apr. 7	499	120	75	95
Hose-rack.....	C. Nuhring.....	558,096	Apr. 14	1059	260	75	217
Hose-reel.....	C. H. Briggs.....	561,759	June 9	1254	299	75	1633
Hose-reel.....	M. H. Kern and H. Tideman.....	561,229	June 2	267	66, 67	75	1419
Hose-reel.....	T. N. Smith.....	571,701	Nov. 17	2238	538	77	1096
Hose, sprayers, or sprinklers. Chemical-receptacle for.....	A. Gartner.....	563,156	June 30	3699	885	75	2149
Hose sprinkling attachment.....	J. Rath.....	564,412	July 21	2063	483	76	412
Hose-stand.....	A. Gall.....	561,986	June 16	1642	400	75	1725
Hose-support.....	L. G. Abbott.....	558,751	Apr. 21	2174	523	75	442
Hose-support.....	D. H. Warner.....	565,127	Aug. 4	309	74	76	674
Hose-supporter.....	L. G. Abbott.....	565,251	Aug. 4	584	137	76	722
Hose-supporter.....	E. F. O'Brien.....	565,920	Aug. 18	1785	434	76	987
Hose-supporter.....	I. H. Paul, Jr.....	569,662	Oct. 20	1650	389	77	343
Hose-supporter.....	R. H. Payne.....	570,143	Oct. 27	2507	594	77	513
Hose-supporter.....	D. H. Warner.....	562,504	June 23	2508	608	75	1902
Hose-washer.....	E. T. Slaght.....	564,720	July 28	2582	612	76	525
Hot-air bath.....	F. A. D. de Dunilac.....	558,677	Apr. 21	2053	495	75	419
Hot-air engine.....	E. Mihsbach and A. Groeschel.....	566,785	Sep. 1	83	21	76	1296
Hot-air furnace.....	A. Bair and A. E. Steinbrick.....	557,753	Apr. 7	421	99	75	80
Hot-air furnace.....	G. W. and H. S. Bennett.....	554,856	Feb. 18	1868	439	74	887
Hot-air furnace.....	E. Betz.....	568,730	Oct. 6	23	4	77	7
Hot-air furnace.....	G. J. Capewell.....	557,551	Apr. 7	31	9	75	8
Hot-air furnace.....	E. F. Edgar.....	566,450	Aug. 25	2752	668	76	1187
Hot-air furnace.....	C. S. Faurot.....	563,243	June 30	3845	922	75	2177
Hot-air furnace.....	D. McCowatt.....	563,240	June 30	3842	921	75	2176
Hot-air furnace.....	L. S. Pfouts.....	570,430	Oct. 27	3068	727	77	618
Hot-air furnace.....	H. C. Steinhoff.....	564,804	July 28	2738	651	76	551
Hot-air furnace.....	R. S. Sweet and H. S. McBride.....	573,930	Dec. 29	3311	791	77	1972
Hot-air furnace.....	J. Wheeler.....	564,322	July 21	1910	451	76	383
Hot-air register.....	C. Clear.....	574,135	Dec. 29	3696	880	77	2042
Hot-box-cooling device.....	G. C. Toben.....	570,519	Nov. 3	148	36	77	665
Hot-water-circulation system.....	J. A. Brett.....	553,448	Jan. 21	1727	410	74	350
Hot-water generator.....	A. J. Pulver.....	552,698	Jan. 7	348	91, 92	74	68
Hot-water heater.....	R. H. Laird.....	560,268	May 19	1707	388	75	1068
Hot-water heater.....	R. Miller.....	566,000	Aug. 25	2973	726	76	1230
Hot-water heater.....	J. G. Shearlock.....	555,467	Feb. 25	2975	708	74	1108
Hot-water heater.....	W. L. Shepard and E. W. Whitlock.....	562,857	June 30	3156	764	75	2041
Hot-water heater.....	J. E. Wallace.....	558,444	Apr. 14	1649	396	75	329
Hot-water heaters. Cleaning device for.....	C. A. Johnson.....	568,765	Oct. 6	95	22, 23	77	20
Hot-water or steam boiler.....	J. A. Fish.....	553,644	Jan. 28	2080	490	74	432

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Hot-water or steam boiler	D. F. Morgan	568,167	Sept. 22	2527	608	76	1793
Hot-water or steam heater	G. Talbot	568,994	Oct. 6	488	110	77	93
House:							
See Bath-house. Greenhouse.							
House construction	E. Totman	557,726	Apr. 7	356	83	75	68
House. Portable	C. H. Leonard	552,533	Jan. 7	52	16	74	12
Household reminder	G. H. Albee	573,319	Dec. 15	2188	523	77	1730
Housing and roll-journal bearing for shafting	W. Stubblebine	562,259	June 16	2101	509	75	1809
Hub-attaching device	S. Day	568,894	Oct. 6	306	70	77	59
Hub-attaching device	F. A. Manegold	567,946	Sept. 15	2100	506	76	1702
Hub-attaching device for vehicle-axles	R. Lehmann	572,489	Dec. 1	697	167	77	1411
Hub-boring device	C. E. Roberts	567,795	Sept. 15	1839	441	76	1652
Hub-boring machine	C. E. Lipe	555,253	Feb. 25	2581	606	74	1035
Hub-dust-excluder. Vehicle	C. Buswell	571,990	Nov. 24	2773	654	77	1217
Hub for vehicles. Wooden	J. Austing	570,215	Oct. 27	2635	624	77	538
Hub. Self-lubricating vehicle	G. and P. Blechschmidt	552,702	Jan. 7	353	93	74	69
Hub. Vehicle	L. D. Ball and E. S. Barnes	570,448	Nov. 3	7	3	77	640
Hub. Vehicle	J. W. Buchanan	567,291	Sept. 8	989	234	76	1478
Hub. Wheel	L. Sr. and C. O. Barnes	563,730	July 14	840	200	76	173
Hub. Wheel	O. Carothers	566,964	Sept. 1	394	91	76	1357
Hub. Wheel	A. B. Curtis	555,932	Mar. 10	768	185	74	1293
Hub. Wheel	W. S. Gubelmann	559,486	May 5	238	53	75	728
Hub. Wheel	J. J. Laass	568,912	Oct. 6	329	76	77	63
Hub. Wheel	G. Sherman	572,618	Dec. 8	934	227	77	1475
Hub. Wheel	C. E. Tomlinson	554,464	Feb. 11	1191	277	74	741
Hub. Wheel	M. Wysong	552,569	Jan. 7	111	31	74	23
Hubs from tubular blanks. Apparatus for making wheel	J. I. Warman and C. Winter	567,328	Sept. 8	1066	254	76	1491
Huller:							
See Almond-huller. Pea-huller.							
Huller feeder. Clover	P. Hoffer	554,341	Feb. 11	973	225	74	700
Hulling machine. Pea or bean	H. H. Brakeley	553,774	Jan. 28	2291	543	74	472
Humidifier system and apparatus	R. C. Ulbrich	572,780	Dec. 8	1228	297	77	1531
Humidifiers. Hygroscopic regulator for	J. Wallace	567,209	Sept. 8	827	196	76	1450
Humidifying apparatus	J. A. Palethorpe	553,259	Jan. 21	1400	341	74	291
Husking-thimble	J. O. Stewart	560,377	May 19	1898	432	75	1019
Hydrant	H. C. Atkinson and S. M. West	554,166	Feb. 4	674	152	74	628
Hydrant	J. J. Fox	556,500	Mar. 17	1864	435	74	1511
Hydrant	W. A. Graham	570,283	Oct. 27	2762	657	77	562
Hydrant	C. T. Jennemann	556,677	Mar. 17	2140	499	74	1562
Hydrant	G. W. Smith	560,114	May 12	1420	319	75	165
Hydrant. Fire	C. E. Loetzer	570,031	Oct. 27	2301	546	77	474
Hydrants. Antifreezing-cover for	J. W. Moodie	565,013	Aug. 4	86	20	76	633
Hydraulic and fluid pressure accumulator	B. F. and H. Hooker	561,992	June 16	1652	402	75	1727
Hydraulic elevator	T. W. Eaton	561,047	May 26	3108	716	75	1342
Hydraulic elevator	T. W. Heermans	559,526	May 5	302	73	75	740
Hydraulic elevator	G. Lee	574,338	Dec. 29	4099	974	77	2116
Hydraulic engine	A. J. Collar	560,394	May 19	1931	441	75	1107
Hydraulic engine	J. W. Garrett, Sr.	562,721	June 23	2893	702	75	1975
Hydraulic engine	H. D. Payne	571,621	Nov. 17	2105	505	77	1071
Hydraulic engine	B. Tydemann	560,332	May 19	1820	414	75	1086
Hydraulic engine	F. E. Whiting	560,384	May 19	1912	435	75	1103
Hydraulic jack	J. Weeks	571,547	Nov. 17	1987	472	77	1049
Hydraulic-machine transformer	T. R. Morgan, Sr.	565,014	Aug. 4	87	20	76	634
Hydraulic motor	J. I. Newburg	565,022	Aug. 4	108	25	76	638
Hydraulic motor	A. A. Wood	556,391	Mar. 17	1654	387	74	1471
Hydraulic or other engine	J. E. Schumacher	571,129	Nov. 10	1289	299	77	906
Hydraulic press	J. S. Miller	571,493	Nov. 17	1884	449	77	1031
Hydraulic press	C. Schlump and R. Charouzek	573,710	Dec. 22	2929	692	77	1887
Hydraulic press for covering cables with lead	D. Carlin	574,132	Dec. 29	3691	879	77	2042
Hydraulic-pressure machine	J. Molas	556,196	Mar. 10	1274	297	74	1384
Hydraulic shears	E. A. W. Jefferies	552,710	Jan. 7	366	95	74	71
Hydro-extractor	O. W. Schaum	552,550	Jan. 7	80	22	74	18
Hydrocarbon-burner	H. A. Bradley	570,450	Nov. 3	10	3	77	640
Hydrocarbon-burner	T. J. Brough	559,670	May 5	542	125	75	785
Hydrocarbon-burner	E. T. Burgess	568,332	Sept. 29	2805	675	76	1861
Hydrocarbon-burner	C. A. Hanable	569,412	Oct. 13	1204	283	77	244
Hydrocarbon-burner	A. J. Huber	552,709	Jan. 7	364	95	74	71
Hydrocarbon-burner	W. J. Jackman	562,537	June 23	2560	622	75	1912
Hydrocarbon-burner	W. F. Karch	553,915	Feb. 4	218	47	74	545
Hydrocarbon-burner	H. L. Marbach	566,598	Aug. 25	2968	724	76	1229
Hydrocarbon-burner	Dr. F. McKinney	564,024	July 14	1377	320	76	272
Hydrocarbon-burner	E. G. Mummery	563,398	July 7	273	61	76	55
Hydrocarbon-burner	E. G. Mummery	563,788	July 14	936	223	76	192
Hydrocarbon-burner	R. A. Poitrimol	557,225	Mar. 31	3108	745	74	1782
Hydrocarbon-burner	G. H. Sherman	560,654	May 26	2433	556	75	1213
Hydrocarbon-burner and connection therefor	A. T. Gifford	562,819	June 30	3083	747	75	2027
Hydrocarbon-engine	M. G. Nixon	559,399	May 5	92	20	75	698

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Hydrocarbon-engine	W. D. and S. Priestman	552,718	Jan. 7	381	{ 100 101	{ 74	74
Hydrocarbon-generator	E. G. Mummery	568,956	Oct. 6	409	52	77	78
Hydrocarbon generator and burner	B. G. Devoe	568,748	Oct. 6	58	14	77	14
Hydrocarbon or other volatile liquids. Receptacle for holding	J. W. Tallmadge	570,884	Nov. 3	850	198	77	799
Hydrocarbon product	F. Salathé	564,341	July 21	1940	458	76	389
Hydrocarbons. Apparatus for treating	A. Seigle	567,752	Sept. 15	1775	{ 426 427	{ 76	1640
Hygienic chamber	A. Trelles Blanco	555,765	Apr. 21	2195	{ 528 529	{ 75	446
Ice. Apparatus for manufacturing	W. F. Singer	571,141	Nov. 10	1305	303	77	908
Ice. Apparatus for planing cakes of	J. N. Briggs. (Reissue)	11,566	Sept. 8	1463	351	76	1564
Ice chest and crate. Combined	L. O. Read	564,764	July 28	2674	636	76	540
Ice-cooler stand	R. W. Birdsell	568,396	Sept. 29	2910	701	76	1821
Ice-cracking and shaving machine	F. E. Steere	569,250	Oct. 13	925	221	77	192
Ice-cream freezer	T. J. Harton	553,158	Jan. 14	1220	297	74	244
Ice-cream freezer	C. L. Jordan and H. B. Phillips	552,908	Jan. 14	792	192	74	161
Ice-cream freezer	W. B. McCann	555,523	Mar. 3	63	14	74	1142
Ice-cream freezer	O. M. and J. P. Perkins	553,495	Jan. 21	1808	430	74	366
Ice-cream freezer	L. D. Railsback	573,293	Dec. 15	2137	513	77	1721
Ice-cream mold	R. L. Prange	571,171	Nov. 10	1347	314	77	917
Ice-cream mold	A. L. Riggs	561,727	June 9	1197	284	75	1621
Ice-cream mold and dipper	F. D. Clark	571,188	Nov. 10	1375	321	77	922
Ice-cream mold and dipper	C. W. and J. E. Harmon and C. L. Boyd	572,987	Dec. 15	1585	380	77	1618
Ice-cream mold and dipper	J. and S. Zimmer	574,185	Dec. 29	3815	911	77	2062
Ice-cream mold and disher	H. G. Morris	573,681	Dec. 22	2881	681	77	1578
Ice-cream mold and disher	H. J. Pfeiffer	571,170	Nov. 10	1346	314	77	917
Ice-cream mold and disher	C. L. Phillips and H. E. McCoy	569,274	Sept. 22	2709	649	76	1828
Ice-creeper	D. M. Forsyth	572,975	Dec. 15	1568	376	77	1615
Ice-creeper	R. P. Scott	556,107	Mar. 10	1102	262	74	1353
Ice-cultivator	J. G. Bodenstein	558,254	Apr. 14	1318	{ 321 322	{ 75	266
Ice-cushion	A. A. Stoll	563,429	July 7	331	75	76	85
Ice. Device for grooving artificial	T. H. Flynn	567,538	Sept. 8	1400	337	76	1552
Ice-elevator	W. Louden	565,762	Aug. 11	1494	365	76	914
Ice-freezing can	J. C. Windle	572,234	Dec. 1	247	59	77	1325
Ice from freezing-cans. Apparatus for removing cakes of	H. Mock	556,584	Mar. 17	2004	468	74	1536
Ice-harvesting machine	D. B. Arnold	554,165	Feb. 4	672	{ 151 152	{ 74	628
Ice-hoist	C. G. Schmidt	553,544	Jan. 28	1901	450	74	400
Ice into cubes. Apparatus for cutting block	H. Vander Weyde	566,088	Aug. 18	1996	483	76	1030
Ice-machine. Absorption	A. Ellis	552,991	Jan. 14	930	225	74	188
Ice-making apparatus	J. Humes	564,486	July 21	2182	511	76	433
Ice-making machine	C. A. Künzel, Jr.	553,681	Jan. 28	2135	506	74	442
Ice or snow vehicle	F. F. Anderson and T. Krauss	566,438	Aug. 25	2696	658	76	1178
Ice palace	C. F. McGlashan	565,175	Aug. 4	425	102	76	695
Ice plants. Can-filler for artificial	L. Schimke	564,651	July 28	2476	584	76	505
Ice-scraper	J. F. Lucas	567,318	Sept. 8	1051	251	76	1489
Ice-shaver	J. L. Hanahan	555,002	Feb. 18	2125	505	74	934
Ice-shaver and milk-shaker. Combination	M. Raubold	565,794	Aug. 11	1546	376	76	923
Ice shaver and scoop	A. Geering	563,763	July 14	895	213	76	183
Ice-shaving machine	J. V. Bohannon	571,609	Nov. 17	2087	501	77	1067
Ice slabs. Apparatus for branding	H. Vander Weyde	566,039	Aug. 18	1998	484	76	1030
Ice-tongs	C. S. Bird and E. D. Weston	572,952	Dec. 15	1524	365	77	1606
Igniting device	H. Van Hoevenbergh	567,928	Sept. 15	2058	493	76	1695
Igniting device. Electrical	W. Kaiser	553,960	Feb. 4	290	65	74	558
Illusion	E. Howard	574,090	Dec. 29	3615	{ 864 865	{ 77	2028
Impact-tool	J. F. Clement	573,260	Dec. 15	2060	493	77	1707
Impact-tool	T. H. Phillips	557,084	Mar. 24	2840	{ 677 678 679 680	{ 74	1713
Impact-tool	T. H. Phillips	561,030	May 26	3080	{ 710 711	{ 75	1337
Impact-tool	H. G. Williams	554,849	Feb. 18	1846	435	74	864
Impact-tool	H. G. Williams	554,850	Feb. 18	1849	{ 435 436	{ 74	884
In and out indicator	J. P. Milbourne	563,501	July 7	450	{ 104 105	{ 76	87
Incandescent burner	E. J. Schauer	558,461	Apr. 14	1680	404	75	334
Incandescent burner	V. H. Slinack	561,449	June 2	693	171	75	1501
Incandescent burner for fluid combustibles	E. H. C. Oehlmann	573,031	Dec. 15	1653	397	77	1632
Incandescent light	L. V. Thomas	567,520	Sept. 8	1376	331	76	1548
Incandescent-light burner	E. H. C. Oehlmann	558,204	Apr. 14	1228	299	75	249
Incandescent lights. Annular liquid-combustible burner for	G. Ditmar	573,578	Dec. 22	2668	633	77	1837
Incandescent lighting substance	C. A. von Welsbach	563,524	July 7	490	.....	76	93
Incandescent mantle	P. Stiens	569,892	Oct. 20	2060	.....	77	415
Incandescent oil lighting	S. Henlein	569,198	Oct. 13	825	193	77	173
Incandescing mantles. Material and process for	W. L. Voelker	568,184	Sept. 22	2555	615	76	1798
Incinerator	C. Thackeray	553,574	Jan. 28	1960	{ 463 464	{ 74	410
Incrustation preventives. Feeder for	G. C. Morris	564,212	July 21	1724	{ 403 404	{ 76	350
Incubator	F. R. Brown	571,553	Nov. 17	1998	475	77	1051
Incubator	J. T. Butts	559,260	Apr. 28	3125	755	75	638
Incubator	G. W. Hagey	564,175	July 14	1668	369	76	326
Incubator	A. Kerr	568,618	Sept. 29	3330	798	76	1958
Incubator	L. R. Oakes	562,847	June 30	3137	{ 759 760	{ 75	2038

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Incubator.....	A. J. Tobey.....	566,429	Aug. 25	2682	655	76	1176
Incubators. Thermal regulator for.....	H. O. Westendarp.....	568,123	Sept. 22	2452	589	76	1779
Indenting surfaces. Machine for.....	P. A. Coupal.....	560,976	May 26	2992	687 688	75	1320
Index.....	G. W. Leesnitzer.....	562,310	June 16	2187	531 532	75	1826
Index and alphabetical record. General.....	G. C. Ward.....	564,670	July 28	2502	591 592	76	510
Index. Book.....	J. Hon.....	561,888	June 9	1481	357	75	1675
Index for rate-tables.....	E. T. Platt.....	553,316	Jan. 21	1509	361 362	74	310
Index for record-books. Movable.....	B. B. McCreight.....	563,204	June 30	3789	908	75	2167
Index. Suspension card.....	F. A. Smith.....	570,686	Nov. 3	505	118	77	732
Indexer.....	J. W. Kea.....	573,153	Dec. 15	1876	452	77	1674
Indexes in paper-files. Holder for expandible.....	T. J. Amberg.....	559,762	May 5	713	169	75	817
Indian club.....	G. A. Solberg.....	558,320	Apr. 14	1428	351	75	228
Indicating device.....	I. Rosenfeld.....	553,427	Jan. 21	1692	404	74	344
Indicating device for bicycles, &c.....	R. Conrow.....	574,022	Dec. 29	3491	834	77	2004
Indicator:							
<i>See</i> Bicycle speed-indicator.	Medicine-dose indicator.						
Bottle-indicator.	Music-indicator.						
Bowling-alley indicator.	Office-indicator.						
Cash-indicator.	Pool-pocket indicator.						
Clock-winding indicator.	Railway time and station indicator.						
Copyist's line-indicator.	Sales-indicator.						
Door-indicator.	Speed-indicator.						
Electric indicator.	Speed and direction indicator.						
Electric visual indicator.	Station-indicator.						
Electrical-energy indicator.	Station or street indicator.						
Elevator-indicator.	Station potential indicator.						
Fare-indicator.	Stature indicator.						
Game-indicator.	Street-indicator.						
In and out indicator.	Street or station indicator.						
Laundry-list indicator.	Tide-indicator.						
Liquid-indicator.	Time-indicator.						
Indicator.	Weather-indicator.						
Indicator-lock.	Welding indicator.						
Indicator-lock.	W. F. Reichenbach.....	573,106	Dec. 15	1792	432	77	1659
Indicator-lock.	J. H. Dates.....	564,185	July 21	1687	395	76	343
Indicator or signal.	J. J. Wolcott.....	562,059	June 16	1770	428	75	1749
Induction-machine.....	J. P. Coleman.....	573,207	Dec. 15	1972	475	77	1691
Induction-motors. Regulating.....	W. K. Freeman.....	554,670	Feb. 18	1545	364 365	74	825
Inflating device.....	W. B. Potter.....	558,104	Apr. 14	1069	262	75	219
Information-cabinet.....	H. L. Gulline.....	559,848	May 12	906	201	75	867
Ingots in matrices. Process of and apparatus for compressing, &c., and new-shapening hollow.....	D. W. Fratcher.....	558,723	Apr. 21	2124	512	75	432
Inhaler.....	T. Bicheroux.....	571,332	Nov. 17	1618	384 385	77	983
Inhaler.....	B. B. Anderson and F. S. Wagenhals.....	552,656	Jan. 7	274	74	74	53
Inhaler.....	R. C. Cottingham.....	556,335	Mar. 17	1554	364	74	1452
Inhaler.....	J. K. Gailey.....	552,901	Jan. 14	776	188	74	159
Inhaler.....	E. D. Martin.....	564,628	July 28	2443	575	76	498
Inhaler.....	W. A. Pendry.....	552,968	Jan. 14	893	216	74	181
Inhaler.....	G. W. Shelton.....	573,363	Dec. 15	2263	540	77	1744
Inhaler.....	S. J. Tedford.....	560,177	May 12	1525	345	75	983
Inhaler.....	L. P. Walter.....	556,228	Mar. 10	1326	311	74	1394
Inhaler.....	T. B. and H. Wilcox.....	552,600	Jan. 7	166	46	74	33
Inhaler.....	F. L. Wiseman.....	567,558	Sept. 8	1435	345	76	1559
Inhaler-mask.....	A. Orr and A. W. Chapman.....	573,691	Dec. 22	2894	684	77	1881
Initiation apparatus for secret societies.....	E. and U. S. De Moulin.....	555,499	Mar. 3	27	7	74	1135
Injector.....	J. Desmond.....	554,415	Feb. 11	1103	256	74	725
Injector.....	J. V. Motter.....	557,081	Mar. 24	2837	676	74	1713
Injector.....	F. C. Sapper.....	568,797	Oct. 6	146	34	77	30
Injector.....	T. J. Sweeney.....	554,401	Feb. 11	1066	249	74	718
Injector. Boiler oil.....	C. W. Umboltz.....	559,067	Apr. 28	2721	661	75	562
Injector. Steam.....	H. W. Fayette.....	571,350	Nov. 17	1645	391	77	988
Injector. Steam.....	P. Brownley.....	571,718	Nov. 17	2266	544	77	1101
Injector telltale and indicator.....	P. Brownley and F. Sticker.....	571,719	Nov. 17	2268	545	77	1102
Ink, pen, and penholder carrier. Combined.....	T. M. Eynon.....	566,154	Aug. 18	2194	533	76	1065
Ink-receptacle.....	M. Scougale.....	565,095	Aug. 4	250	60	76	662
Ink-roller mechanism.....	F. G. Neubert.....	565,917	Aug. 18	1760	434	76	986
Inking-fluid receptacle.....	E. P. Sheldon.....	558,214	Apr. 14	1249	304	75	254
Inkstand.....	J. H. Osgood.....	557,014	Mar. 24	2743	650	74	1692
Inkstand.....	R. M. Badger.....	562,754	June 23	2952	715	75	1986
Inkstand.....	C. H. Gardner.....	567,383	Sept. 8	1165	279	76	1508
Inkstand.....	R. G. Hopkins.....	554,424	Feb. 11	1117	261	74	728
Inkstand.....	G. H. Hyde.....	564,201	July 21	1709	400	76	347
Inkstand.....	J. W. Jacobus.....	571,046	Nov. 10	1122	262	77	876
Inkstand.....	J. H. McBride.....	568,865	Oct. 6	264	61	77	51
Inkstand.....	J. S. Parmenter.....	557,425	Mar. 31	3471	832	74	1851
Inkstand.....	J. L. Powley.....	567,792	Sept. 15	1834	440	76	151
Inkstand.....	F. B. Pratt.....	563,615	July 7	641	149	76	121
Inkstand.....	F. Schenker.....	571,401	Nov. 17	1725	410	77	1002
Inkstand.....	C. H. Schwiete.....	561,348	June 2	508	128	75	1468
Inkstand.....	J. Thomson.....	570,191	Oct. 27	2590	615	77	529
Inkstand.....	W. A. Wilkins.....	572,623	Dec. 8	941	228	77	1477
Inkstand and pen-rack. Combined.....	H. Moyer.....	563,787	July 14	935	223	76	192
Inkstand. Barometer.....	J. R. Handy.....	572,483	Dec. 1	688	164 165	77	1410

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Inkstand. Pneumatic.....	C. A. Sigelen.....	566,346	Aug. 25	2513	615	76	1143
Inkstand-filling attachment.....	P. F. McClure.....	567,192	Sept. 8	804	190	76	1446
Inkstand-shield.....	R. G. Hopkins.....	560,409	May 19	1954	447	75	1110
Ink-well.....	J. R. Balsley.....	569,162	Oct. 13	768	179	77	162
Ink-well.....	J. Desmond.....	566,971	Sept. 1	421	95	76	1361
Ink-well.....	S. Sauvage.....	556,067	Sept. 10	1040	248	74	1341
Ink-well.....	J. S. Mallary and J. A. Leonard.....	554,785	Feb. 18	1739	407	74	862
Ink-well.....	E. Rudolph.....	570,959	Nov. 10	976	227	77	849
Ink-well.....	G. D. Spielman.....	568,709	Sept. 29	3494	836	76	1980
Ink-well lid.....	A. Hawkrigde.....	568,976	Oct. 6	442	99	77	85
Inseam trimming and beating out welts. Machine for.....	A. C. Spencer.....	559,314	Apr. 28	3204	774	75	652
Inseam-trimming machine.....	E. S. Harris.....	556,146	Mar. 10	1180	276	74	1368
Insect-catcher.....	F. M., Sr., and W. H. Allenbaugh, Jr.....	555,916	Mar. 10	733	178	74	1287
Insect-destroyer.....	E. T. Burrowes.....	552,703	Jan. 7	355	93	74	69
Insect-destroyer.....	W. H. Freeman.....	573,587	Dec. 22	2683	638	77	1841
Insect-destroyer.....	R. L. Lynch.....	571,925	Nov. 24	2665	632	77	1196
Insect-destroyer.....	R. C. Maddux.....	556,760	Mar. 24	2301	541	74	1609
Insect-powder distributor.....	C. D. Cutts.....	567,640	Sept. 15	1588	382	76	1603
Insect-powder duster.....	P. E. Hoffman.....	573,184	Dec. 15	1934	464	77	1684
Insect remover and destroyer.....	W. Reeder.....	560,932	May 26	2934	674	75	1309
Insect-trap.....	T. R. L. Daughtrey and A. M. Cowart.....	573,814	Dec. 22	3091	734	77	1918
Insect-trap.....	H. W. Matthews.....	552,644	Jan. 7	237	66	74	46
Insects or microbes on plants. Means for destroying.....	J. Fuchs.....	565,384	Aug. 4	787	187	76	763
Insects. Tree appliance for destroying.....	J. W. Greene.....	561,391	June 2	579	145	75	1481
Insecticide-distributing machine.....	W. R. Monroe.....	555,256	Feb. 25	2586	607	74	1036
Insufflator.....	G. W. Moore.....	566,212	Aug. 18	2288	560	76	1084
Insufflator. Powder.....	J. Schoene.....	566,411	Aug. 25	2647	646	76	1169
Insulated crossover for trolley-wires.....	A. Hanson.....	567,784	Sept. 15	1824	437 438	76	1649
Insulated electric cable.....	M. Guillaume.....	568,756	Oct. 6	81	18	77	18
Insulated electric conductor.....	W. R. Patterson.....	572,215	Dec. 1	212	52	77	1318
Insulated joint for light-fixtures.....	W. McElroy.....	572,124	Dec. 1	54	14	77	1288
Insulated rail-joint.....	R. C. Scofield and J. Wayland.....	567,416	Sept. 8	1215	291	76	1518
Insulated support for contact-rails.....	A. Hanson and J. R. Chapman.....	556,971	Mar. 24	2650	622	74	1675
Insulating compound.....	L. Honig.....	568,683	Sept. 29	3455	.....	76	1982
Insulating-conduit. Armored.....	R. T. Elwell.....	564,174	July 14	1667	389	76	326
Insulating electric conductors. Means for.....	T. Guillaume.....	563,273	July 7	67	17	76	14
Insulating electric conductors. Means for.....	T. Guillaume.....	571,560	Nov. 24	2367	565	77	1140
Insulating handle connection.....	J. Rogers.....	565,393	Aug. 4	801	190	76	765
Insulating-joint.....	G. J. Carson.....	554,332	Feb. 11	958	221	74	697
Insulating-joint.....	W. O. Duntley.....	553,844	Feb. 4	57	12	74	515
Insulating-joint.....	L. McCarthy.....	554,394	Feb. 11	1053	246	74	716
Insulating-joint for conduit-tubes.....	E. T. Greenfield.....	570,170	Oct. 27	2551	606	77	522
Insulating-joint for metal or armored conduit-tubes.....	E. T. Greenfield.....	570,166	Oct. 27	2545	605	77	521
Insulating magnet-wire. Apparatus for.....	E. F. Cabezola.....	565,564	July 7	559	128 129	76	105
Insulating-sheet. Electrical.....	C. W. Jefferson.....	563,716	July 7	808	193	76	151
Insulating-sheet. Flexible mica.....	C. W. Jefferson.....	563,379	July 7	248	56	76	50
Insulating-support for boxes containing electrical apparatus.....	T. H. Brady.....	555,922	Mar. 10	750	181	74	1289
Insulating-support for electric-railway rails.....	P. Haley.....	563,482	July 7	422	98	76	81
Insulation and making same. Composition for electric.....	A. Gentzsch.....	559,376	May 5	45	.....	75	689
Insulation from electric wires. Device for removing.....	A. E. O. Rieckel.....	562,097	June 16	1844	448	75	1761
Insulation-protector.....	G. B. Damon.....	566,064	Aug. 18	2039	497	76	1037
Insulator.....	T. Blankinsop and J. W. Brown.....	562,166	June 16	1955	474	75	1782
Insulator.....	F. M. Locke.....	573,092	Dec. 15	1770	425 426	77	1655
Insulator.....	C. B. Martin.....	574,101	Dec. 29	3634	868	77	2031
Insulator.....	C. B. Martin and E. M. Hewlett.....	570,034	Oct. 27	2306	548	77	475
Insulator.....	E. Peloubet.....	554,723	Feb. 18	1627	384	74	842
Insulator.....	C. A. Peterson.....	557,600	Apr. 7	126	33	75	25
Insulator.....	H. W. Rappleye.....	557,881	Apr. 7	627	149	75	118
Insulator.....	W. Wood.....	568,060	Sept. 22	2332	563	76	1755
Insulator-brackets. Fastening.....	L. S. Beardsley.....	558,758	Apr. 21	2187	525	75	444
Insulator. Conduit-outlet.....	F. W. Erickson.....	566,507	Aug. 25	2839	691	76	1203
Insulator. Electric-wire.....	M. Riera.....	554,955	Feb. 18	2031	480	74	918
Insulator for electrical purposes.....	A. J. P. Whitaker and F. G. Treharne.....	566,045	Aug. 18	2005	486	76	1032
Insulator-hanger.....	R. Duncan.....	573,966	Dec. 29	3396	813	77	1988
Insulator. Section.....	L. McCarthy.....	570,140	Oct. 27	2496	591 592	77	511
Insulator-support.....	J. B. Oliver.....	566,468	Aug. 25	2783	677	76	1193
Insulator-support.....	C. P. Toward.....	565,944	Aug. 18	1828	444	76	996
Insulator. Wall.....	J. J. O'Neill.....	573,101	Dec. 15	1784	429	77	1657
Intake and filter.....	H. L. Ricks.....	553,424	Jan. 21	1688	403	74	343
Internal-combustion engine.....	F. L. Chamberlin.....	561,374	June 2	549	138 139	75	1476
Internal-combustion engine.....	C. W. Pinkney.....	571,239	Nov. 10	1460	342 343	77	938
Internal-combustion engine.....	J. Saltar, Jr.....	564,766	July 28	2676	636	76	540
Intrenching-tool.....	J. H. Gageby.....	557,988	Apr. 7	824	196	75	155
Invalid-chair.....	D. S. Carrick.....	559,119	Apr. 28	2819	682 683	75	584
Invalid-support.....	T. F. Carlos.....	555,894	Mar. 3	698	168	74	1259
Invalid supporting and moving apparatus.....	S. S. Hepburn.....	562,725	June 23	2904	704 705	75	1976
Invalid's table.....	F. E. Asper.....	561,955	June 16	1595	387	75	1717
Iodoform combination with hexamethylenetetramine.....	A. Eichengrün.....	567,968	Sept. 22	2144	.....	76	1723
Iris-mechanism casing.....	M. Berger.....	562,270	June 16	2122	515	75	1813
Iron: See Curling-iron. Smoothing-iron. Sad-iron. Soldering-iron.							
Iron derivatives of albumen. Obtaining.....	O. Schmiedeberg.....	566,280	Aug. 18	2384	.....	76	1102
Iron. Electrolysis of.....	A. S. Ramage.....	570,956	Nov. 10	974	.....	77	848

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Iron from solutions containing iron and zinc. Precipitating	E. Warzée	556,568	Mar. 17	1977		74	1531
Iron. Machine for cutting bar	L. Seiple and M. G. Brookins	555,404	Feb. 25	2846	671	74	1085
Iron. Manufacture of	C. P. Sherk, J. L. Rutter, and S. Groh	553,875	Feb. 4	118	23	74	528
Iron-melting apparatus	B. H. Whiteley	554,558	Feb. 11	1332	312	74	768
Iron-melting apparatus	B. H. Whiteley	554,559	Feb. 11	1334	312	74	769
Iron or steel. Machine for shaping	J. T. Rowley	566,701	Aug. 25	3126	764 765	76	1258
Iron or steel. Purifying	E. H. Saniter	571,538	Nov. 17	1972		77	1047
Iron. Preparing soluble saccharate of	C. Stahlschmidt	564,261	July 21	1805		76	366
Iron structure	H. Glass	553,028	Jan. 14	982	237 238	74	198
Ironing-board	H. Barclay	555,471	Feb. 25	2981	710	74	1110
Ironing-board	S. M. Ford	565,731	Aug. 11	1441	351	76	903
Ironing-board	M. Patterson	566,276	Aug. 18	2377	582	76	1101
Ironing-board	H. B. Ten Eyck	565,707	Aug. 11	1388	338	76	895
Ironing-board. Adjustable	C. J. Cramer	563,844	July 14	1052	248	76	212
Ironing-board. Folding	O. R. Bunner	559,929	May 12	1068	237	75	896
Ironing-machine	G. Binder	568,732	Oct. 6	27	8	77	8
Ironing-machine	W. A. E. Henrici	556,820	Mar. 24	2399	564	74	1627
Ironing-machine	W. Hess, Jr	570,397	Oct. 27	3010	712 713	77	607
Ironing-machine	A. Metzger	553,038	Jan. 14	998	244	74	201
Ironing-machine. Neck and wrist band	W. A. E. Henrici	556,925	Mar. 24	2574	606	74	1660
Ironing machines. Bosom-stretcher for shirt	W. A. E. Henrici	568,850	Oct. 6	237	55	77	46
Ironing-table	A. Benedict	572,519	Dec. 8	757	180	77	1437
Ironing-table	L. E. Dawson	570,462	Nov. 3	38	9	77	646
Ironing-table	J. H. Foster	571,158	Nov. 10	1331	310	77	914
Ironing-table	C. L. Hofwolt	570,636	Nov. 3	401	96	77	712
Ironing-table	J. F. Leitner	556,191	Mar. 10	1265	295	74	1382
Ironing-table	J. B. Manritzen and J. C. Tinkle	566,993	Sept. 1	460	106	76	1368
Ironing-table	R. W. Schulte	573,539	Dec. 22	2604	618	77	1825
Ironing-table	H. Stone	553,225	Feb. 25	2527	596	74	1025
Ironing-table. Folding	J. B. Rylander	571,800	Nov. 24	2431	580	77	1152
Irrigating-flumes. Outlet and cut-off for	D. W. Willard	559,651	May 5	517	119	75	781
Irrigating plant	A. W. Towne	572,842	Dec. 8	1325	319	77	1550
Irrigation-shovel	J. H. Gordon	557,380	Mar. 31	3388	814	74	1835
Irrigator. Dilating	F. C. Tice	572,736	Dec. 8	1151	277	77	1516
Irrigator. Hot-water	J. A. Noble	558,979	Apr. 28	2572	625	75	534
Isomers. Converting compounds of the citral series into	J. C. W. F. Tiemann	556,944	Mar. 24	2602		74	1665
Jack							
See Armature-jack.	Rounding-jack.						
Boot or shoe maker's	Screw-jack.						
jack.	Shoe-machine jack.						
Buggy-jack.	Sole-machine jack.						
Car-jack.	Staging-jack.						
Carriage-jack.	Steamboat-jack.						
Drill-jack.	Thill-coupling jack.						
Hay-elevator jack.	Track-jack.						
Hydraulic jack.	Vehicle-jack.						
Lifting-jack.	Wagon-jack.						
Logging-jack.	Well-jack.						
Pumping-jack.	Wheel-truing jack.						
Jack	T. H. Donlon	561,209	June 2	238	57	75	1413
Jack post	C. V. Card	559,262	Apr. 28	3128	756	75	639
Jacketed can	H. L. Gates	557,308	Mar. 31	3262	782	74	1810
Jacketed can	H. L. Gates	571,724	Nov. 17	2278	547	77	1104
Jacquard apparatus	F. B. Fawcett	569,749	Oct. 20	1829	434	77	373
Jacquard machine and card-protector	S. Morgan	556,316	Mar. 10	1516	353	74	1430
Jacquard mechanism	J. A. Groebli	552,904	Jan. 14	784	190	74	160
Jacquard mechanism	F. H. Richards	573,621	Dec. 22	2748	652 653	77	1854
Jacquard mechanism	F. H. Richards	573,622	Dec. 22	2752	654 655	77	1855
Jacquard mechanism	F. H. Richards	573,623	Dec. 22	2759	655 656	77	1856
Jacquard mechanism. Harness connection for	F. Lewis	561,801	June 9	1326	318	75	1645
Japan-board-point cleaner	H. F. McGill	570,181	Oct. 27	2573	611	77	526
Japanning	A. H. Sabin	563,417	July 7	304		76	60
Japanning and enameling machine	R. H. Bellman	559,662	May 5	531	122	75	783
Jar							
See Butter-jar.	Fruit-jar.						
Jar-clamp	F. H. Palmer	567,502	Sept. 8	1352	325	76	1543
Jar-closure	F. H. Palmer	573,693	Dec. 22	2897	684	77	1881
Jar-cover	W. R. Goodnow	556,095	Mar. 10	1086	258	74	1350
Jar-fastener	F. A. Jaberg	574,330	Dec. 29	4050	969	77	2112
Jar-holder	F. E. Russell, Jr	561,064	May 26	3136	724	75	1347
Jar or bottle	H. A. and M. M. Hickok	570,096	Oct. 27	2428	576	77	499
Jar or bottle	C. H. Stadelman	565,371	Aug. 4	762	181	76	758
Jars, &c. Lid-fastener for fruit	J. Bonshire	559,564	May 5	369	89	75	754
Jenny for winding bobbins	H. L. Edge	556,843	Mar. 24	2431	571	74	1634
Jetty. Movable	S. B. Olney	560,530	May 19	2153	492	75	1146
Jewel-setting machine	G. E. Hunter	555,447	Feb. 25	2938	697 698 699	74	1102
Jeweler's tool	R. N. Bromley	559,840	May 12	895	199	75	864
Jewelry	G. B. Adams	558,334	Apr. 14	1448	356	75	291
Jewelry	G. P. A. Gunther	569,100	Oct. 6	658	152	77	126
Jewelry and tool for forming same. Cluster-setting for	J. G. W. Shepard	567,554	Sept. 8	1429	343	76	1558
Jib folding and reefing apparatus	F. V. de Bem	569,601	Oct. 20	1542	362	77	322
Jib tacking device	P. J. Macdonald	562,549	June 23	2581	626	75	1915

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Joint:							
See Bedstead-joint.	Insulating-joint.						
Boiler-joint.	Lock-joint.						
Clamp-joint.	Metal joint.						
Doll-joint.	Pipe-joint.						
Flexible joint.	Rail-joint.						
Fusible joint.	Water-closet joint.						
Insulated rail-joint.	Wire joint.						
Joint for parts of machinery	O. Cullmann. (Reissue)	11,557	July 7	827	197	76	154
Joints. Repair device for stopping leaky	S. R. Dresser	571,220	Nov. 10	1424	332	77	931
Jointing-machine	J. R. Thomas	563,097	June 30	3601	863 864 865	75	2131
Joist-hanger	J. C. Summerer	560,947	May 26	2955	678	75	1313
Journal-bearing.	H. Hubbard	565,988	Aug. 18	1928	466	76	1016
Journal-bearing.	F. Latulip	564,564	July 21	2324	545	76	457
Journal-bearing.	J. P. McGarry	555,109	Feb. 25	2335	554	74	989
Journal-bearing.	P. J. Westphal	573,738	Dec. 22	2975	704	77	1896
Journal-bearing.	C. H. Woodworth	572,236	Sept. 1	249	60	77	1326
Journal-bearing and pillow-block	P. W. Power	567,165	Sept. 8	770	180	76	1440
Journal bearing or brass	W. B. Lewis	552,767	Jan. 7	486	120	74	92
Journal-bearing. Self-oiling	D. L. Altman	570,782	Nov. 3	662	152	77	760
Journal-bearing. Self-oiling	F. H. Perry	561,028	May 26	3076	709	75	1336
Journal-bearing. Self-oiling	E. R. Stilwell	559,956	May 12	1111	248	75	904
Journal-bearings. Means for laterally adjusting	A. W. Goodell and L. T. Pyott	566,166	Aug. 18	2209	538	76	1068
Journal-box	W. G. Beckwith	560,565	May 19	2216	507	75	1157
Journal-box	H. M. Darling	558,262	Apr. 14	1337	327	75	270
Journal-box	W. B. Eichholtz	559,691	May 5	574	135	75	791
Journal-box	W. Falkner	568,476	Sept. 29	3046	731 732	76	1906
Journal-box	C. D. Flynt	572,882	Dec. 8	1382	335	77	1562
Journal-box	G. F. Godley	563,270	July 7	65	16	76	14
Journal-box	W. H. Kendall	568,313	Sept. 22	2771	667	76	1840
Journal-box	C. Linstrom	559,728	May 5	632	151	75	803
Journal-box	J. L. Martin	571,490	Nov. 17	1879	448	77	1030
Journal-box. Articulated	A. Fayol	558,642	Apr. 21	1982	481	75	406
Journal-box dust-guard	C. D. Flynt	572,883	Dec. 8	1383	335	77	1562
Journal-box for shafts or axles. Metal ball-bearing	F. G. Wilson	564,600	July 28	2832	676	76	569
Journal-box guard	F. J. Roberts	552,549	Jan 7	78	22	74	18
Journal-boxes. Electric indicator for hot	W. B. Chockley	557,650	Apr. 7	233	57	75	44
Jug for beer, &c	H. Reissing	558,660	Apr. 21	2013	487	75	412
Jug. Hermetically-closing	A. Heinemann	572,257	Dec. 1	288	69	77	1334
Jug-holder	A. P. Woodard	553,800	Jan. 28	2330	553	74	479
Juice and vapor. Apparatus for treating	A. F. Gallennie	564,481	July 21	2175	510	76	432
Junction-box and means for uniting metal conduit-tubes thereto. Metallic	E. T. Greenfield	570,167	Oct. 27	2546	605	77	521
Justifier. Automatic	A. W. Storm	571,809	Nov. 24	2445	583	77	1155
Kenotiphone or katotrikum	N. Xenos	566,643	Aug. 25	3029	740 741	76	1242
Ketone and making same. Aromatic	J. C. W. F. Tiemann	556,943	Mar. 24	2600		74	1665
Ketone from orris-root. Making	J. C. W. F. Tiemann	559,636	May 5	490		75	776
Kettle	S. A. Fisher	556,884	Mar. 24	2507	591	74	1648
Kettle-cleaner	E. G. De Laney	560,060	May 12	1314	294	75	944
Kettle-drainer	M. J. Caswell	563,136	June 30	3669	878	75	2144
Kettle-holder and strainer	W. G. Bolus	567,763	Sept. 15	1791	429	76	1643
Kettle lifter and drainer	J. A. Gackeler	566,512	Aug. 25	2848	692	76	1205
Kettle spout attachment	M. S. Kjellstrom	573,330	Dec. 15	2204	527	77	1733
Kettle-tilter	F. D. Metcalf	560,732	May 26	2560	589	75	1238
Key:							
See Time-recorder key.							
Key	T. Donahue	553,578	Jan. 28	1937	466	74	412
Key	O. Stoddard	559,467	May 5	205	45	75	721
Keyboard	J. F. Black	572,953	Dec. 15	1525	365	77	1607
Keyboard apparatus	F. R. McBerty	573,992	Dec. 29	3442	824	77	1996
Keyboard apparatus and circuit therefor. Operator's	C. E. Scribner and F. R. McBerty	564,456	July 21	2134	499	76	424
Keyboard apparatus and circuit therefor. Operator's	C. E. Scribner and F. R. McBerty	564,457	July 21	2138	500	76	424
Keyboard-player	R. T. Smith	555,744	Mar. 3	439	104 105	74	1208
Keyboard. Transposing	H. H. Stroeter	572,227	Dec. 1	239	57	77	1324
Key-fastener	J. A. Beebe	563,216	June 30	3803	911	75	2169
Key-hole-guard	F. Hollingsworth and F. M. McNeely	567,344	Sept. 8	1092	263	76	1497
Key-fastener	F. Reissner	564,452	July 21	2127	498	76	422
Key-holder	V. J. Harvey	568,758	Oct. 6	84	20	77	19
Keyhole-bearing	A. J. Warner	554,207	Feb. 18	1770	416	74	868
Keyhole-guard	J. S. Hecker	572,988	Dec. 15	1586	380	77	1619
Keyless lock	G. L. Barney	564,268	July 21	1822	427	76	368
Key-opening can	W. H. Gilbert	565,162	Aug. 4	396	92	76	690
Key-opening can	A. F. Remy	563,686	July 7	758	179	76	143
Key-opening can	A. F. Remy	563,687	July 7	759	179	76	143
Key-operated mechanism	F. H. Richards	573,619	Dec. 22	2736	650 651	77	1851
Key retainer and locker	H. W. Tuckey and A. Harris	566,820	Sept. 1	134	33	76	1307
Key-ring or the like	G. B. Adams	570,442	Nov. 3	1	1	77	639
Key-seating machine	C. J. Carney	572,863	Dec. 8	1353	326 327	77	1556
Kicker	R. H. Gohmann and H. Terstegge	557,666	Apr. 7	262	63	75	50
Kicking-strap	J. Lague	558,499	Apr. 21	1749	424	75	364
Kiln:							
See Barrel-drying kiln.	Drying-kiln.						
Bone-black kiln.	Limekiln.						
Brick-kiln.	Malt-kiln.						
Downdraft-kiln.	Wood-drying kiln.						
Dry-kiln.							
Kiln	P. Jochum	565,753	Aug. 11	1476	361	76	910

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Kiln.....	W. H. Melcher.....	571,599	Nov. 17	2066	495	77	1064
Kiln.....	A. Thaison.....	572,841	Dec. 8	1324	318 319	77	1550
Kiln for decorating porcelain or glass.....	J. P. Rieffel.....	569,232	Oct. 13	891	212 213	77	186
Kinetscope.....	A. Pettenkofer.....	571,496	Nov. 17	1896	451	77	1033
Kitchen-cabinet.....	T. Carney.....	569,541	Oct. 13	1410	333	77	283
Kitchen-cabinet.....	G. A. Fischer.....	562,522	Jan. 7	35	10	74	9
Kitchen-cabinet.....	C. Hooper.....	562,727	June 23	2907	705	75	1977
Kitchen-cabinet.....	H. Linton.....	565,477	Aug. 11	953	226 227	76	814
Kitchen-cabinet.....	P. Pfender.....	561,690	June 9	1121	266 267	75	1607
Kitchen-cabinet.....	S. W. Tate.....	557,095	Mar. 24	2866	685	74	1718
Kitchen-cabinet.....	H. C. Wheeler.....	561,462	June 2	715	176	75	1505
Kitchen-cabinet.....	J. C. Wollerman.....	554,163	Feb. 4	668	150 151	74	627
Kitchen implement.....	A. E. Schlieder.....	561,135	June 2	102	28	75	1387
Kitchen-table.....	H. A. Jackson.....	569,135	Oct. 6	718	169	77	137
Kite-trolley.....	T. J. Rogers.....	563,066	June 30	3525	846 847	75	2117
Knapsack-carrier.....	A. Herzberg.....	571,593	Nov. 17	2060	493	77	1062
Kneader and mixer.....	I. Henderson.....	560,794	May 26	2675	615	75	1260
Kneader. Dough.....	L. K. Strang.....	563,431	July 7	333	75	76	66
Kneader. Dough.....	W. J. Woods.....	567,777	Sept. 15	1812	435	76	1647
Kneading and rolling machine.....	W. D. Sprague.....	562,258	June 16	2099	509	75	1809
Kneading-machine.....	L. P. Jacobsen.....	553,162	Jan. 14	1227	299	74	245
Kneading machine. Dough.....	L. Durand.....	562,952	June 30	3339	802 803	75	2081
Knee-pad.....	J. W. Davis and E. C. Brown.....	554,776	Feb. 18	1725	404	74	859
Knee-pad.....	W. P. Fergusson.....	563,468	July 7	390	90	76	75
Knee-pad.....	J. E. B. Laird.....	572,642	Dec. 8	975	235	77	1484
Knee-pad.....	J. T. Rice.....	573,919	Dec. 29	3288	787	77	1969
Knee-rest.....	A. J. Theiring.....	568,380	Sept. 29	2889	694	76	1877
Kneeling-bench.....	C. Finucane.....	556,499	Mar. 17	1863	434	74	1511
Knife.....							
See Chopping-knife. Miner's knife.							
Corkscrew-knife. Paring-knife.							
Farrier's knife. Pineapple-knife.							
Hay-knife. Planer-knife.							
Lathe-knife. Pocket-knife.							
Leather-splitting knife. Pruning-knife.							
Lock-knife. Shaving-knife.							
Knife.....	E. Jansen.....	569,103	Oct. 6	663	154	77	126
Knife.....	F. H. Wilks.....	561,842	June 9	1405	337	75	1659
Knife and corn-holder.....	A. Anderson.....	562,946	June 30	3330	800	75	2079
Knife cleaner and sharpener.....	J. D. Johnston.....	555,819	Mar. 3	554	132	74	1231
Knife-milling machine.....	C. E. Roberts.....	554,796	Feb. 18	1750	411 412	74	864
Knife-milling machine. Table.....	C. E. Roberts.....	555,125	Feb. 25	2362	562	74	994
Knife-opening device.....	A. C. Weeks.....	568,998	Oct. 6	494	111	77	94
Knife or fork handle.....	L. W. Harlburt.....	569,831	Oct. 20	1959	466	77	397
Knife-polisher.....	W. H. Cloud and V. J. Tull.....	561,765	June 9	1262	301	75	1634
Knives. Device for scouring and polishing.....	J. Stalker.....	566,944	Sept. 1	359	84	76	1351
Knives. Machine for grinding handles of table.....	C. E. Roberts.....	554,797	Feb. 18	1752	412	74	865
Knit fabric.....	C. Mählinghaus and R. Thomalla.....	568,694	Sept. 29	3470	830	76	1985
Knit fabric for hydraulic hose, &c.....	W. Esty.....	567,308	Sept. 8	1023	245	76	1484
Knit fabric for mattresses.....	G. F. Sumner.....	573,720	Dec. 22	2947	696	77	1890
Knit fabric. Tubular.....	C. H. Young.....	574,082	Dec. 29	3595	859	77	2024
Knit fabric with backing. Ribbed.....	D. C. Bellis.....	561,558	June 9	890	214	75	1563
Knitted fabric. Apparatus for producing ornamental circular.....	A. E. Adams, W. A. Sheffield, and J. Hallam.....	557,631	Apr. 7	185	47	75	36
Knitting device. Circular.....	D. Minich.....	569,463	Oct. 13	1273	300	77	257
Knitting-frame.....	C. Terrot.....	562,677	June 23	2808	682	75	1958
Knitting-machine.....	D. C. Bellis.....	561,559	June 9	891	214 215	75	1564
Knitting-machine.....	D. C. Bellis.....	574,129	Dec. 29	3687	878	77	2041
Knitting-machine.....	J. Bennor.....	557,638	Apr. 7	201	51	75	39
Knitting-machine.....	J. Bennor.....	557,639	Apr. 7	204	52	75	39
Knitting-machine.....	F. J. Cartledge.....	566,965	Sept. 1	395	91, 92	76	1357
Knitting-machine.....	R. Challands, F. W. Pare, and J. H. Smith.....	568,190	Sept. 22	2562	617 618	76	1800
Knitting-machine.....	H. Garant.....	559,327	Apr. 28	3243	783	75	660
Knitting-machine.....	E. G. Johanson.....	559,850	May 12	910	202	75	868
Knitting-machine.....	J. Johnson.....	563,233	June 30	3843	918	75	2174
Knitting-machine.....	J. Johnson.....	564,886	July 28	2872	688	76	576
Knitting-machine.....	G. J. Manderfield and J. C. Brewin.....	557,845	Apr. 7	571	137	75	108
Knitting-machine.....	A. Nelson.....	562,553	June 23	2584	627 628 629 630	75	1916
Knitting-machine.....	F. A. Nye.....	573,527	Dec. 22	2578	612	77	1820
Knitting-machine.....	P. Persson.....	569,347	Oct. 13	1094	260	77	226
Knitting-machine.....	J. G. Powell.....	570,335	Oct. 27	2894	687 688 689 690	77	585
Knitting-machine.....	J. E. Rowe.....	570,059	Oct. 27	2347	558 559 560	77	483
Knitting-machine.....	H. Stoll and F. Maercklin.....	572,839	Dec. 8	1321	317	77	1549
Knitting-machine.....	G. F. Sturgess.....	562,436	June 23	2403	583 584	75	1882

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Knitting-machine	F. Wilcomb	559,831	May 12	867	{ 193 194 195	75	859
Knitting-machine and knit fabric	C. Older	552,583	Jan. 7	136	38	74	27
Knitting-machine. Automatic	L. N. D. Williams	552,804	Jan. 7	565	137	74	107
Knitting-machine. Automatic	L. N. D. Williams and H. Swingle- hurst	552,806	Jan. 7	569	{ 138 139 140 412 413 414	74	108
Knitting machine. Automatic circular	A. Wrightson	569,701	Oct. 20	1731	{ 413 414	77	357
Knitting machine. Automatic straight	J. Benner	557,641	Apr. 7	211	53, 54	75	40
Knitting-machine cam and work-presser	W. T. Barratt	572,690	Dec. 8	1059	258	77	1500
Knitting-machine cam mechanism	J. W. Rist	566,019	Aug. 18	1973	478	76	1026
Knitting-machine cam-ring	L. N. D. Williams	561,039	May 26	3098	714	75	1340
Knitting machine. Circular	E. R. Branson	553,277	Jan. 21	1432	{ 347 348	74	297
Knitting machine. Circular	A. J. Gulich	560,712	May 26	2529	581	75	1232
Knitting machine. Circular	H. E. Harbaugh	564,176	July 14	1669	390	76	326
Knitting machine. Circular	D. Hurley	572,679	Dec. 8	1036	{ 251 252	77	1496
Knitting machine. Circular	F. A. Nye	556,514	Mar. 17	1898	{ 441 442	74	1517
Knitting machine. Circular automatic rib	G. A. Leighton and J. H. Rice	573,275	Dec. 15	2087	{ 501 502	77	1712
Knitting-machine. Circular hand	C. J. Appleton	574,053	Dec. 29	3550	847	77	2016
Knitting-machine dial-cam-operating mechanism	A. McMichael	567,547	Sept. 8	1415	340	76	1555
Knitting-machine fashioning mechanism	F. Wilcomb	559,832	May 12	874	{ 195 196 197	75	861
Knitting-machine needle	S. Woodward	567,931	Sept. 15	2065	495	76	1696
Knitting-machine needle-actuating jack	E. Tiffany	558,237	Apr. 14	1292	316	75	261
Knitting-machine needle bar or cylinder	L. N. D. Williams	561,038	May 26	3097	714	75	1340
Knitting-machine needle-bed	W. Esty	553,729	Jan. 28	2226	527	74	459
Knitting-machine needle-cylinder	L. N. D. Williams	552,805	Jan. 7	567	137	74	107
Knitting-machine needle-picking device	L. N. D. Williams	561,037	May 26	3095	714	75	1340
Knitting-machine needles. Machine for grooving	W. H. Stewart	557,169	Mar. 31	2999	715	74	1765
Knitting-machine quarter-saver	A. Paul	560,106	May 12	1401	315	75	961
Knitting-machine reinforcing-thread mechanism	H. E. Harbaugh	563,230	June 30	3829	917	75	2174
Knitting-machine reinforcing-thread mechanism	H. E. Harbaugh	563,231	June 30	3831	918	75	2174
Knitting machine. Rib	L. N. D. Williams	561,068	May 26	3139	725	75	1348
Knitting machine. Rib	L. N. D. Williams	573,743	Dec. 22	2983	706	77	1897
Knitting-machine. Rotary	E. Vermilyea	573,063	Dec. 15	1714	{ 411 412	77	1644
Knitting-machine sinker-actuating mechanism	J. Benner	557,640	Apr. 7	210	53	75	40
Knitting-machine sinker-holder	F. J. Cartledge and H. B. Dawson	554,475	Feb. 11	1207	281	74	744
Knitting-machine sinker mechanism	J. L. Branson	570,695	Nov. 3	518	121	77	735
Knitting-machine sinker mechanism	F. Wilcomb	559,830	May 12	865	{ 192 193	75	859
Knitting-machine spotting-feed	B. Thackrah	561,739	June 9	1214	{ 237 238	75	1625
Knitting-machine stop attachment	D. Hurley	572,680	Dec. 8	1039	252	77	1496
Knitting-machine stop-motion	W. Cobb and A. P. Rickmeyer	565,134	Aug. 4	340	80, 81	76	681
Knitting-machine stop-motion	S. Creager	569,324	Oct. 13	1054	250	77	217
Knitting-machine stop-motion	W. A. Ingalls	571,479	Nov. 17	1858	442	77	1027
Knitting-machine stop-motion	D. F. Sullivan	559,505	May 5	270	64	75	734
Knitting machine. Straight	G. R. Herfurth	556,749	Mar. 24	2270	{ 532 533 534 535 536	74	1604
Knitting-machine transferring attachment	H. E. Harbaugh	552,598	Jan. 7	42	12, 13	74	11
Knitting-machine transferring device	W. G. Chisolm	571,554	Nov. 17	1999	475	77	1051
Knitting-machine transferring device	H. E. Harbaugh	555,161	Feb. 25	2420	574	74	1005
Knitting-machines. Automatic yarn-changing at- tachment for	W. H. Stewart	557,168	Mar. 31	2995	715	74	1765
Knitting machines. Needle switch mechanism for circular	J. A. Burleigh	566,294	Aug. 25	2411	592	76	1124
Knitting machines. Needle switch mechanism for circular	J. A. Burleigh	566,295	Aug. 25	2413	{ 592 593 463 464	76	1125
Knitting machines. Plush-bur for circular	W. M. Bell	564,360	July 21	1973	463	76	394
Knitting machines. Quarter-saver for circular	C. M. Musgrove	553,011	Jan. 14	958	232	74	193
Knitting seamless fleece-lined hose. Machine for	A. Wrightson	569,702	Oct. 20	1745	{ 414 415	77	358
Knitting stockings	F. E. Busiel	563,739	July 14	853	{ 202 203	76	176
Knitting stockings	F. E. Busiel	563,740	July 14	854	203	76	176
Knitting trimming. Warp-machine for	A. Ward	556,874	Mar. 24	2492	588	74	1646
Knob and making same	W. H. Taylor	563,693	July 7	770	181	76	145
Knob attachment	C. F. Doebler	565,108	Aug. 4	271	65	76	667
Knob attachment	C. F. Doebler	565,109	Aug. 4	275	65	76	668
Knob attachment	C. O. Noack	556,587	Mar. 17	2008	469	74	1537
Knob attachment	F. H. Richards	562,419	June 23	2366	578	75	1875
Knob attachment	F. H. Richards	562,420	June 23	2368	578	75	1876
Knob attachment	H. G. Voight	554,804	Feb. 18	1763	415	74	867
Knob. Door	G. E. Schofer	555,906	Mar. 3	712	172	74	1262
Knob. Sheet-metal	W. A. Turner	558,862	Apr. 21	2359	575	75	476
Knockdown box	T. F. McGraw	563,506	July 7	463	109	76	89
Knockdown box	T. J. B. Pitiot	571,790	Nov. 24	2417	576	77	1150
Knockdown box	P. L. Webb	562,682	June 23	2820	684	75	1960
Knockdown table	G. W. Crater	565,435	Aug. 11	871	206	76	798
Knockdown table	W. F. Grassler	562,133	June 16	1900	460	75	1772
Knockdown table	F. Ritter	561,612	June 9	986	237	75	1582

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Knockdown table	G. B. Yost	573,428	Dec. 15	2403	573	77	1770
Knuckle-pad	H. B. Frazier	563,545	July 7	593	138	76	111
Knurling-machine	J. Browning	554,811	Feb. 18	1774	418 419	74	869
Label-attaching machine	S. R. Thayer	554,012	Feb. 4	378	83, 84	74	575
Label-fastener	F. Tiedtke	561,244	June 2	286	72	75	1423
Label for rolls of ribbon	F. Coster	560,690	May 26	2497	573	75	1226
Label-holder	A. Swartz	568,636	Sept. 29	3362	806	76	1964
Labeling-machine	O. T. Holbrook	558,907	Apr. 21	2438	593 594	75	492
Labeling-machine	H. Rawlinson	567,041	Sept. 1	544	127 128	76	1385
Labeling-machine	J. F. Small and J. S. Biggar	557,087	Mar. 24	2848	681 682	74	1715
Lace-bearing for shoes	W. P. Bliss	565,131	Aug. 4	319	77	76	676
Lace clasp. Shoe	O. S. Augensen	569,393	Oct. 13	1173	278	77	240
Lace-edging	S. Borton	556,300	Mar. 10	1493	347	74	1425
Lace fastener. Shoe	H. Kollock	571,670	Nov. 17	2184	526	77	1086
Lace fastener. Shoe	H. Zahl	563,633	July 14	1023	242	76	207
Lace. Twist	R. F. Carey	563,708	July 7	795	190	76	149
Laces. Machine for cutting	P. Goldstein and G. Andrae	567,130	Sept. 8	707	165 166	76	1428
Laces. Machine for cutting	P. Goldstein and G. Andrae	567,131	Sept. 8	711	166 167 168	76	1428
Lacing. Boot or shoe	H. O. Whyman	570,585	Nov. 3	280	69	77	690
Lacing-cord	J. P. Tolman	573,249	Dec. 15	2044	490	77	1705
Lacing-hook	M. N. Bray	559,769	May 5	732	171	75	818
Lacing-hook	E. Kempshall	553,165	Jan. 14	1331	300	74	245
Lacing-hook	E. Kempshall	569,971	Oct. 20	2199	522	77	441
Lacing-hook	E. Kempshall	571,596	Nov. 17	2064	495	77	1063
Lacing-hook	W. H. Smidt	568,498	Sept. 29	3089	744	76	1914
Lacing hook or stud	E. Kempshall	552,841	Jan. 7	641	157	74	121
Lacing-hook. Self-closing	L. S. Upton	553,478	Jan. 21	1774	423	74	360
Lacing hook. Shoe	C. E. Van Norman	565,099	Aug. 4	258	61	76	664
Lacing-hooks. Apparatus for covering	E. Kempshall	569,969	Oct. 20	2196	521 522	77	441
Lacing-hooks. Machine for forming	T. A. Perrins	552,306	Apr. 14	1405	345 346	75	283
Lacing. Invisible	A. R. Colton	571,749	Nov. 24	2347	561	77	1136
Lacing of boots or shoes	G. L. Cumine	571,341	Nov. 17	1632	387	77	986
Lacing-stud	E. Kempshall	569,968	Oct. 20	2195	521	77	441
Lacing-stud-setting machine	G. A. Stiles	565,810	Aug. 11	1571	382 383	76	923
Lacing-studs or similar articles. Covering	F. Egge	557,526	Mar. 31	3648	874	74	1883
Ladder	G. E. Chittenden	572,693	Dec. 8	1068	260	77	1501
Ladder	C. G. Hausmann	572,201	Dec. 1	181	44	77	1313
Ladder	C. Roney	562,665	June 23	2792	678	75	1955
Ladder. Adjustable step	W. V. Stephenson	559,630	May 5	478	110 111	75	774
Ladder and fire-escape. Combined extension	R. S. Young	568,999	Oct. 6	494	112	77	94
Ladder and fire-escape. Extension	S. C. Kindig	570,730	Nov. 3	575	132	77	744
Ladder apparatus. Fire	N. Z. Reom	558,986	Apr. 28	2583	628	75	536
Ladder attachment	J. J. Haffermehl	556,464	Mar. 17	1797	417	74	1498
Ladder-bracket. Adjustable	H. M. Stillman	567,755	Sept. 15	1780	427	76	1641
Ladder. Combination	J. Furgason	570,469	Nov. 3	50	12	77	648
Ladder. Extension	J. A. Fisk	565,444	Aug. 11	887	210	76	801
Ladder. Extension	B. A. Hill	565,750	Aug. 11	1473	360	76	909
Ladder. Extension	J. F. Mack	570,939	Nov. 10	945	219 220	77	843
Ladder. Extension	C. W. H. Moulton	556,830	Mar. 24	2417	568	74	1631
Ladder. Extension	C. W. H. Moulton	556,831	Mar. 24	2417	568	74	1631
Ladder. Extension	D. Snell	559,626	May 5	471	109	75	773
Ladder. Extension	L. C. Tiefert	555,836	Mar. 3	577	139	74	1235
Ladder hook	J. S. Tilley and F. C. Lovejoy	560,242	May 19	1656	377	75	1059
Ladder-hook. Extension	L. Ferguson	552,636	Jan. 7	926	62	74	44
Ladder. Orchard	B. M. Close	571,853	Nov. 24	2529	599	77	1170
Ladder. Portable extension	W. Ornatoski	567,814	Sept. 15	1886	451 452	76	1661
Ladder. Step	C. H. Dyar	562,716	June 23	2887	700	75	1973
Ladder. Step	H. C. Hachmuth	555,156	Feb. 25	2410	572	74	1004
Ladder. Step	C. Hood	554,695	Feb. 18	1583	372 373	74	833
Ladder. Step	T. J. McCormick	569,119	Oct. 6	682	160	77	130
Ladder. Step or extension	W. B. Cantrell	570,661	Nov. 3	455	107	77	724
Ladder. Walking	A. J. Avery	568,557	Sept. 29	3208	773	76	1934
Ladle	W. Hainsworth	555,317	Feb. 25	2702	633	74	1058
Ladle. Foundry	W. T. Coughlin	553,055	Jan. 14	1035	252	74	208
Ladle-operating mechanism	H. Aiken	564,770	July 28	2662	637	76	541
Lakes or coloring compounds by electrolysis. Producing	R. McKenzie	554,718	Feb. 18	1620	.....	74	840
Lakes. Producing	E. Broemme	560,890	May 26	2862	.....	75	1295
Laminated packs. Apparatus for separating	F. McCarty	558,457	Apr. 14	1673	403	75	333
Lamp	R. M. Dixon	567,304	Sept. 8	1019	244	76	1483
Lamp	P. L. Girardet	572,505	Dec. 1	729	173	77	1416
Lamp	W. M. Hoerle	557,270	Mar. 31	3197	767	74	1797
Lamp	A. Kiesow	557,829	Apr. 7	547	131 132	75	103
Lamp	J. Kirby, Jr	557,397	Mar. 31	3416	820	74	1840
Lamp	J. Kirby, Jr	567,833	Sept. 15	1918	460	76	1667
Lamp	J. V. Moore	568,036	Sept. 22	2281	552	76	1747
Lamp	H. B. Moran	572,122	Dec. 1	48	12	77	1287
Lamp	W. J. Smart	556,030	Mar. 10	955	227	74	1327
Lamp	J. Weintraub	553,745	Jan. 28	2250	533	74	404

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Lamp air-distributor	H. E. Shaffer	555,187	Feb. 25	2461	583	74	1014
Lamp. Alcohol	W. J. D. Mast	560,319	May 19	1798	409	75	1082
Lamp. Alcohol blowpipe	R. S. Peabody	560,748	May 26	2585	595	75	1243
Lamp and lamp-stove	W. Porter	564,098	July 14	1521	355 356	76	299
Lamp and socket. Incandescent	A. Swan	570,517	Nov. 3	144	36	77	665
Lamp. Arc	J. Rao	572,064	Nov. 24	2900	684	77	1240
Lamp base. Electric	W. C. Bryant	574,301	Dec. 29	4031	957	77	2103
Lamp bases. Compound mold for forming incandescent.	J. Henny and A. Pederquist	558,070	Apr. 14	1016	248	75	208
Lamp. Bicycle	J. J. Bailey	558,142	Apr. 14	1128	275	75	231
Lamp. Bicycle	W. S. Hamm	564,882	July 28	2863	686	76	575
Lamp. Bicycle	H. S. Hirsch	565,272	Aug. 4	610	144	76	727
Lamp. Bicycle	J. F. Place and E. D. Terry	562,319	June 16	2205	536	75	1830
Lamp. Bicycle	F. Rhind	560,109	May 12	1413	317	75	963
Lamp. Bicycle	F. Rhind	560,110	May 12	1414	317	75	964
Lamp. Bicycle	F. Rhind	560,174	May 12	1522	344	75	1182
Lamp. Bicycle	F. Rhind	560,429	May 19	1996	456	75	1118
Lamp. Bicycle	F. Rhind	570,894	Nov. 3	869	202	77	802
Lamp. Bicycle	S. Snell	554,009	Feb. 4	373	82	74	574
Lamp. Bicycle	E. L. Williams	554,044	Feb. 4	439	97	74	585
Lamp. Bicycle	E. L. Williams	560,879	May 26	2839	650	75	1291
Lamp. Blowpipe	E. E. Dempsey	568,403	Sept. 29	2923	704	76	1883
Lamp bulbs. Apparatus for detaching electric	O. Smith	558,573	Apr. 21	1869	453	75	386
Lamp-burner	F. P. Boland	563,549	July 7	533	122	76	101
Lamp-burner	J. C. Brady	565,831	Aug. 11	1605	392 393	76	934
Lamp-burner	H. A. Crosby	566,666	Aug. 25	3066	748	76	1248
Lamp-burner	J. Gregory	564,991	Aug. 4	53	12	76	627
Lamp-burner	J. Gregory	564,992	Aug. 4	55	13	76	627
Lamp-burner	W. C. Homan	564,309	July 21	1883	443	76	378
Lamp-burner	J. Jauch	554,491	Feb. 11	1232	288	74	749
Lamp-burner	A. H. Jones	554,936	Feb. 18	2004	474	74	912
Lamp-burner	J. Kampf	569,501	Oct. 13	1349	317	77	270
Lamp-burner	A. S. Keach	572,943	Dec. 8	1499	359	77	1586
Lamp-burner	G. B. M. Kepler and S. R. Bashore	563,930	July 14	1216	285	76	242
Lamp-burner	J. Lines	562,630	June 23	2740	664	75	1945
Lamp-burner	W. E. Mayo	565,625	Aug. 11	1243	300	76	866
Lamp-burner	S. B. Morss	569,795	Oct. 20	1907	453	77	387
Lamp-burner	J. C. Shull	554,038	Feb. 4	431	95	74	584
Lamp-burner	F. T. Williams	559,069	Apr. 28	2725	662	75	563
Lamp-burner	F. T. Williams	571,631	Nov. 17	2127	511	77	1075
Lamp-burner extinguisher	A. Gross	561,108	June 2	54	14	75	1377
Lamp burner. Incandescent	A. Ricks	560,649	May 26	2426	555	75	1211
Lamp burners. Fixture for incandescent	J. W. McKnight	558,911	Apr. 21	2446	596	75	494
Lamp. Candle	S. P. Bancroft	561,081	June 2	6	2	75	1368
Lamp. Candle	C. E. and T. H. Green	566,755	Sept. 1	42	11	76	1288
Lamp carbon-holder. Arc	C. A. Pfuger	557,518	Mar. 31	3635	872	74	1881
Lamp. Central-draft	N. Johnson and A. H. Jones	564,017	July 14	1368	319	76	270
Lamp. Central-draft oil	J. H. Ross	564,718	July 28	2578	611	76	524
Lamp-chimney	E. Segassio	571,804	Nov. 24	2437	581	77	1154
Lamp-chimney heels. Machine for forming	G. J. Gaubert	566,514	Aug. 25	2851	693	76	1205
Lamp-chimney holder	M. J. Nugent	560,104	May 12	1389	314	75	960
Lamp chimney. Incandescent-gas	E. F. W. Hirsch	568,533	Sept. 29	3172	703	76	1928
Lamp-chimney protector	A. Doherty, Jr	571,131	Nov. 10	1294	300	77	906
Lamp-chimney protector	J. Kulcsar	573,155	Dec. 15	1876	452	77	1674
Lamp-cleaning device	J. F. Main	560,592	May 19	2263	518	75	1167
Lamp clutch. Arc	H. R. Palmer	567,355	Sept. 8	1119	269	76	1500
Lamp. Cooking	W. A. Penfield	553,686	Jan. 28	2144	507	74	443
Lamp cut-out. Arc	A. H. Lucas	564,757	July 28	2665	633 634	76	539
Lamp. Electric	R. Hacking and G. Brand	559,282	Apr. 28	3157	763	75	644
Lamp. Electric	R. M. Hunter	571,123	Nov. 10	1279	296	77	904
Lamp. Electric	L. A. Jackson	572,805	Dec. 8	1272	306	77	1539
Lamp. Electric	F. E. Magee	572,431	Dec. 1	614	145	77	1395
Lamp. Electric	C. E. Quimby	556,693	Mar. 17	2165	506	74	1567
Lamp. Electric-arc	T. E. Adams	555,841	Mar. 3	588	141	74	1237
Lamp. Electric-arc	T. E. Adams	555,891	Mar. 3	689	166 167	74	1258
Lamp. Electric-arc	T. E. Adams	560,671	May 26	2462	564 565	75	1218
Lamp. Electric-arc	W. C. Armstrong	564,771	July 28	2682	638	76	542
Lamp. Electric-arc	W. C. Armstrong	564,772	July 28	2685	638	76	542
Lamp. Electric-arc	E. J. Bagnall	560,387	May 19	1919	437 438	75	1105
Lamp. Electric-arc	E. J. Bagnall and G. Arnold	553,637	Jan. 28	2058	487	74	422
Lamp. Electric-arc	W. S. Bartholomew	552,874	Jan. 7	712	173	74	133
Lamp. Electric-arc	S. Bergmann	561,560	June 9	895	215	75	1564
Lamp. Electric-arc	F. J. Borland	552,982	Jan. 14	917	222	74	186
Lamp. Electric-arc	H. E. Bradley	557,648	Apr. 7	230	56	75	43
Lamp. Electric-arc	C. L. Coffin	560,476	May 19	2076	473	75	1132
Lamp. Electric-arc	E. H. Crosby	553,335	Jan. 21	1542	368	74	316
Lamp. Electric-arc	H. P. Davis	569,817	Oct. 20	1940	462	77	393
Lamp. Electric-arc	H. P. Davis	569,818	Oct. 20	1941	462	77	393
Lamp. Electric-arc	A. C. Dobrick	573,398	Dec. 15	2315	553	77	1754
Lamp. Electric-arc	C. Eschwei	571,946	Nov. 24	2699	639	77	1203
Lamp. Electric-arc	E. F. G. H. Faure and J. Mac Hahie	567,227	Sept. 8	860	205	76	1455
Lamp. Electric-arc	H. J. Fisher	565,971	Aug. 18	1895	460	76	1009
Lamp. Electric-arc	C. Goodyear, Jr	572,539	Dec. 8	785	188	77	1443
Lamp. Electric-arc	J. H. J. Haines and A. B. Fernald	560,792	May 26	2672	614	75	1259
Lamp. Electric-arc	D. Higham	562,609	June 23	2707	655	75	1939
Lamp. Electric-arc	E. P. Hopkins	573,464	Dec. 22	2478	587 588	77	1802

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Lamp. Electric-arc	W. Jandus	568,721	Sept. 29	3513	{ 842 843	76	1994
Lamp. Electric-arc	A. Jordan	559,387	May 5	62	14	75	692
Lamp. Electric-arc	J. C. Knight	563,773	July 14	912	{ 217 218	76	187
Lamp. Electric-arc	E. Lavens	555,706	Mar. 3	375	87	74	1196
Lamp. Electric-arc	G. R. Lean	571,974	Nov. 24	2745	{ 648 649	77	1211
Lamp. Electric-arc	G. R. Lean	571,976	Nov. 24	2752	649	77	1213
Lamp. Electric-arc	O. S. Lyford, Jr.	562,313	June 16	2194	533	75	1827
Lamp. Electric-arc	A. O. Mackin	560,039	May 12	1269	{ 285 286	75	935
Lamp. Electric-arc	J. McLaughlin	560,421	May 19	1980	453	75	1115
Lamp. Electric-arc	J. McLaughlin	567,840	Sept. 15	1928	{ 462 463	76	1669
Lamp. Electric-arc	N. G. Meade	568,861	Oct. 6	254	60	77	49
Lamp. Electric-arc	J. E. Morris	569,881	Oct. 20	2037	485	77	411
Lamp. Electric-arc	J. A. Mosher	573,830	Dec. 22	3133	746	77	1925
Lamp. Electric-arc	J. A. Mosher and W. S. Bartholomew	565,861	Aug. 11	1674	411	76	948
Lamp. Electric-arc	L. G. Nilson	552,967	Jan. 14	891	216	74	181
Lamp. Electric-arc	E. H. A. H. von Nollendorf	573,526	Dec. 22	2576	611	77	1819
Lamp. Electric-arc	S. E. Nutting	559,633	May 12	941	{ 210 211	75	873
Lamp. Electric-arc	M. S. Okun	562,090	June 16	1833	446	75	1759
Lamp. Electric-arc	L. H. Page	573,911	Dec. 29	3273	781	77	1967
Lamp. Electric-arc	H. R. Palmer	571,137	Nov. 10	1300	302	77	907
Lamp. Electric-arc	G. C. Pyle	556,437	Mar. 17	1751	407	74	1490
Lamp. Electric-arc	G. C. Pyle	556,898	Mar. 24	2533	597	74	1652
Lamp. Electric-arc	G. C. Pyle	570,053	Oct. 27	2335	{ 553 554	77	480
Lamp. Electric-arc	H. R. Quinby	571,792	Nov. 24	2420	577	77	1150
Lamp. Electric-arc	P. F. H. Queisser	573,617	Dec. 22	2734	650	77	1851
Lamp. Electric-arc	W. D. Ray	557,229	Mar. 31	3114	747	74	1783
Lamp. Electric-arc	T. Reymann	557,606	Apr. 7	133	35	75	26
Lamp. Electric-arc	C. Richter and R. T. Eschler	573,161	Dec. 15	1886	454	77	1676
Lamp. Electric-arc	C. Richter and R. T. Eschler	573,162	Dec. 15	1887	454	77	1676
Lamp. Electric-arc	P. R. Salberg	567,691	Sept. 15	1671	402	76	1620
Lamp. Electric-arc	R. Scheffbauer	555,621	Mar. 3	232	55	74	1172
Lamp. Electric-arc	R. Scheffbauer	568,798	Oct. 6	147	35	77	30
Lamp. Electric-arc	C. E. Scribner	559,407	May 5	105	23	75	701
Lamp. Electric-arc	C. E. Scribner	559,408	May 5	107	23	75	701
Lamp. Electric-arc	C. E. Scribner	563,315	July 7	142	33	76	30
Lamp. Electric-arc	C. E. Scribner	574,045	Dec. 29	3532	843	77	2013
Lamp. Electric-arc	J. A. Seaverns	554,542	Feb. 11	1308	{ 307 308	74	764
Lamp. Electric-arc	R. Segerdahl	559,412	May 5	116	24	75	703
Lamp. Electric-arc	H. A. Seymour	570,823	Nov. 3	730	167	77	774
Lamp. Electric-arc	H. A. Seymour	570,824	Nov. 3	732	{ 167 168	77	774
Lamp. Electric-arc	H. A. Seymour	574,117	Dec. 29	3661	874	77	2036
Lamp. Electric-arc	H. A. Seymour	574,118	Dec. 29	3664	{ 874 875	77	2036
Lamp. Electric-arc	H. A. Seymour	574,119	Dec. 29	3669	875	77	2037
Lamp. Electric-arc	T. Spencer	556,479	Mar. 17	1817	{ 422 423	74	1502
Lamp. Electric-arc	T. Spencer and C. Toerring, Jr.	572,777	Dec. 8	1219	295	77	1529
Lamp. Electric-arc	H. O. Swoboda and E. Lavens	553,697	Jan. 28	2161	511	74	447
Lamp. Electric-arc	E. Thomson	574,123	Dec. 29	3677	876	77	2039
Lamp. Electric-arc	B. B. Ward	564,907	July 28	2897	694	76	581
Lamp. Electric-arc	M. Wheless	559,648	May 5	511	{ 117 118	75	780
Lamp. Electric-arc	M. Wheless	559,649	May 5	514	118	75	780
Lamp. Electric carriage	P. H. Quinn	554,089	Feb. 4	527	118	74	601
Lamp. Electric glow	E. A. Colby	558,634	Apr. 21	1967	478	75	404
Lamp. Electric incandescent	F. M. F. Cazin	566,285	Aug. 18	2393	587	76	1104
Lamp. Electric signal	J. R. Farmer	567,338	Sept. 8	1079	{ 259 260	76	1494
Lamp. Electric signal	A. F. Ward	556,946	Mar. 24	2604	612	74	1665
Lamp. Electric stand	R. Graves	558,727	Apr. 21	2132	{ 513 514	75	434
Lamp-extinguisher	W. J. Gagnon	563,953	July 14	1265	296	76	250
Lamp-filler	E. T. Darling	572,502	Dec. 1	725	{ 172 173	77	1415
Lamp-filling device	N. L. Bradley	563,551	July 7	537	123	76	101
Lamp fitting. Incandescent	A. Swan	573,929	Dec. 29	3310	791	77	1972
Lamp fitting. Incandescent-electric	J. McFarlane and W. B. Edgar	555,862	Aug. 11	1676	411	76	949
Lamp fitting. Incandescent-electric	E. F. A. Soleau	564,723	July 28	2602	{ 619 620	76	527
Lamp-fixtures. Automatic regulator for continuously-fed extension	F. L. Eager	553,397	Jan. 21	1643	393	74	335
Lamp-flue holder	C. P. Johnson	564,286	July 21	1853	433	76	372
Lamp for electric railways. Automatic signal	D. O. Beckwith	566,283	Aug. 18	2388	{ 585 586	76	1103
Lamp for vehicles. Electric	W. A. Crowder	555,305	Feb. 25	2682	627	74	1054
Lamp for producing spirit-gas incandescent gas-light	A. Perlich	570,049	Oct. 27	2329	552	77	479
Lamp for velocipedes, &c. Electric	A. M. Rodriguez	568,209	Sept. 22	2595	625	76	1806
Lamp. Gas	J. F. McElroy	569,562	Oct. 13	1458	344	77	291
Lamp. Gas	J. F. McElroy	571,311	Nov. 10	1583	376	77	962
Lamp. Gas-burning	N. H. Brown	566,055	Aug. 18	2023	491	76	1035
Lamp. Gas-generating	F. Rossbach-Rousset	567,773	Sept. 15	1803	433	76	1645
Lamp-globe	G. W. Ballou and A. Seaver	570,896	Nov. 10	872	203	77	829
Lamp-globe	A. Blondel and S. Psaroudaki	563,836	July 14	1031	{ 243 244 245	76	209

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Lamp globe attachment. Electric.	E. Schrantz	571,802	Nov. 24	2435	581	77	1153
Lamp-hanger	E. F. Hershaw	563,232	June 30	3832	918	75	2174
Lamp hanger. Arc	W. S. Bosley	566,652	Aug. 25	3042	743	76	1244
Lamp hanger. Arc	L. A. Scovil	558,989	Apr. 28	2589	630	75	537
Lamp hanger. Electric	J. Schmidt	561,443	June 2	681	167	75	1498
Lamp hanger. Electric	W. S. Weston	561,184	June 2	199	49, 50	75	1405
Lamp hanger. Electric	W. S. Weston	561,185	June 2	205	50	75	1406
Lamp hanger. Electric-arc	T. H. Brady	560,255	May 19	1685	384	75	1064
Lamp hanger. Safety arc	E. P. Snowden	558,993	Apr. 28	2594	631	75	538
Lamp hanger. Street	H. P. Hill	570,801	Nov. 3	693	158	77	766
Lamp having a regenerative burner	T. Gordon and W. R. Swift	554,866	Feb. 18	1884	443	74	890
Lamp head-block. Arc	A. N. Edeburn	560,262	May 19	1698	386	75	1066
Lamp holder. Adjustable incandescent	E. Wade	557,732	Apr. 7	376	88	75	71
Lamp holder. Electric	W. S. Arnold	567,531	Sept. 8	1391	335	76	1551
Lamp holder. Extension electric	E. C. Kuenneth, G. Schreier, and C. Kuenneth.	566,193	Aug. 18	2256	552	76	1078
Lamp. Hydrocarbon illuminating	J. P. McGarry	556,361	Mar. 17	1607	{ 375 376 }	74	1462
Lamp. Incandescent	H. Green	553,673	Jan. 28	2123	503	74	439
Lamp. Incandescent	J. T. Lister	568,262	Sept. 22	2688	644	76	1823
Lamp. Incandescent	C. E. Scribner	563,319	July 7	151	35	76	31
Lamp. Incandescent	C. E. Scribner	563,321	July 7	156	35	76	32
Lamp. Incandescent	K. O. E. Trobach	558,122	Apr. 14	1097	268	75	225
Lamp. Incandescent	H. Zerning	564,952	July 28	2999	714	76	599
Lamp. Incandescent gas	J. and G. Sulzbach	556,451	Mar. 17	1820	423	74	1503
Lamp. Incandescent hydrocarbon	S. Marcus	558,589	Apr. 21	1895	459	75	390
Lamp mast-arm. Electric	J. J. Shickluna	559,066	Apr. 28	2720	661	75	562
Lamp. Miner's	C. H. Hobson	567,099	Sept. 1	650	151	76	1405
Lamp. Miner's	E. J. O'Keefe	564,450	July 21	2125	497	76	422
Lamp. Miner's safety	K. Broucek	557,548	Apr. 7	27	2	75	7
Lamp. Miner's safety	T. H. Williams	570,780	Nov. 3	659	151	77	759
Lamp or lantern	J. Senior	560,601	May 19	2285	523	75	1170
Lamp or lantern guard or shield	S. N. Goodman	559,078	Apr. 28	2740	666	75	585
Lamp pencil. Arc	I. L. Roberts	562,030	June 16	1718	417	75	1740
Lamp pole. Electric	M. B. Bailey	567,116	Sept. 1	676	158	76	1410
Lamp-post cap	A. P. Storrs	571,868	Nov. 24	2555	606	77	1175
Lamp post. Electric	J. Buckner	572,354	Dec. 1	474	111	77	1368
Lamp. Regenerative	H. Smith and T. Gordon	573,113	Dec. 15	1803	435	77	1661
Lamp. Regenerative gas	W. R. Swift	571,704	Nov. 17	2243	{ 539 540 }	77	1097
Lamp regulator. Incandescent-electric	W. Hawker	572,421	Dec. 1	600	142	77	1392
Lamp. Safety	W. Waegel	562,208	June 16	2022	488	75	1795
Lamp. Self-extinguishing	J. Gregory	553,959	Feb. 4	288	64	74	557
Lamp-shade	R. Walsh and C. Williamson	555,135	Feb. 25	2379	565	74	997
Lamp-shade holder	P. R. Wager	566,255	Aug. 18	2348	575	76	1096
Lamp shade. Incandescent-electric	S. O. Richardson, Jr.	557,342	Mar. 31	3326	798	74	1823
Lamp shade or reflector holder	C. A. Lapworth	570,669	Nov. 3	471	110	77	726
Lamp. Signal	A. H. Handlan	557,382	Mar. 31	3396	815	74	1836
Lamp. Signal	G. E. Warren	556,170	Mar. 10	1223	285	74	1375
Lamp-socket	H. C. Wirt	559,474	May 5	219	49	75	725
Lamp socket and switch. Incandescent	J. M. Moffat	560,931	Oct. 20	2123	505	77	427
Lamp socket. Electric	H. W. Leonard	560,168	May 12	1511	342	75	981
Lamp socket. Incandescent	H. Hubbell	565,541	Aug. 11	1091	263	76	838
Lamp socket. Incandescent	J. C. Tournier	559,232	Apr. 23	3077	{ 742 743 }	75	629
Lamp socket. Incandescent	H. C. Wirt	560,667	May 26	2459	563	75	1218
Lamp socket. Incandescent-electric	J. Pass and A. P. Seymour	568,919	Oct. 6	341	79	77	85
Lamp socket. Locking electric	W. L. Taylor	569,727	Oct. 20	1787	424	77	366
Lamp sockets. Shade-holder for incandescent	M. D. Greengard	569,556	Oct. 13	1450	342	77	289
Lamp-stand	G. P. Kato, Jr.	571,568	Nov. 17	2018	480	77	1055
Lamp stand. Electric	W. D. Gridley	563,922	July 14	1201	282	76	239
Lamp. Street	C. R. Lindsay, Jr.	571,005	Nov. 10	1053	246	77	863
Lamp. Street	J. Stewart	565,044	Aug. 4	142	33	76	644
Lamp-support	L. F. Betts	560,338	May 19	1829	416	75	1088
Lamp-support	L. F. Betts	569,741	Oct. 20	1806	428	77	370
Lamp support. Electric	J. Buckner	553,220	Jan. 14	1327	322	74	263
Lamp. Switch and signal	C. Bergener	573,501	Dec. 22	2542	602	77	1813
Lamp switch. Electric	H. R. Quinby	571,791	Nov. 24	2419	576	77	1150
Lamp. Vapor	R. Corscaden	561,967	June 16	1612	392	75	1720
Lamp. Vapor	W. Stone, C. Ralston, J. Gregg, and W. A. Holmes	554,039	Feb. 4	432	95, 96	74	584
Lamp-wick-adjusting device	J. M. Usher	566,882	Sept. 1	247	57	76	1329
Lamp-wick and producing same	G. H. Wilbur	568,822	Oct. 6	186	45	77	38
Lamp wick-tube	N. D. Ingram	561,789	June 9	1311	314	75	1642
Lamp. Wickless oil	A. Shedlock	562,927	June 30	3278	792	75	2067
Lamps. Air-distributor for central-draft	W. C. Homan	556,980	Mar. 24	2663	625	74	1677
Lamps. Air-distributor for central-draft	J. Jauch	561,321	June 2	455	112	75	1458
Lamps. Apparatus for manufacturing incandescence electric	G. R. Lean and J. R. Massey	568,142	Sept. 22	2484	{ 597 598 599 }	76	1785
Lamps. Apparatus for measuring candle-power of arc	E. J. Houston and A. E. Kennelly	569,643	Oct. 20	1623	{ 382 383 }	77	338
Lamps. Automatic flame-extinguisher for	E. J. Brown	567,677	Sept. 15	1648	397	76	1616
Lamps. Combined guard and stand for incandescent electric	E. Gahlau	556,287	Aug. 18	2396	588	76	1105
Lamps. Composition of matter for use in manufacturing glow bodies for incandescent	G. Lowenberg	568,780	Oct. 6	121	.....	77	25
Lamps. Drip-trough for central-draft	J. C. Miller	566,208	Aug. 18	2282	558	76	1083
Lamps. Drip-trough for central-draft	J. C. Miller	566,309	Aug. 18	2283	559	76	1083
Lamps. Electrical indicating and cut-out apparatus for portable or other electric	R. Hacking and G. Brand	566,573	Aug. 25	2933	716	76	1222
Lamps. Globe for electric arc	M. B. Bailey	570,446	Nov. 3	5	2	77	639
Lamps. Hanger-board for arc	A. J. Oehring	555,112	Feb. 25	2337	555	74	990
Lamps. Key-socket for incandescent	B. W. Snow	554,896	Feb. 18	1937	456	74	900

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Lamps. Machine for cleaning wire-gauze cylinders of safety.	G. Grossmann	559,171	Apr. 28	2950	713	75	606
Lamps. Manufacturing incandescent.	F. S. Smith and J. A. Vandegrift	565,576	Aug. 11	1161	278	76	851
Lamps. Means for attaching and detaching electric.	F. A. Butterfield	556,959	Mar. 24	2628	617	74	1670
Lamps. Means for supporting and moving electric.	J. Dempsey	554,245	Feb. 11	805	184	74	668
Lamps. Regulating-socket for electric.	C. A. Chute	566,892	Sept. 1	264	61	76	1333
Lamps. Regulating-socket for incandescent.	A. B. Hendricks	553,911	Feb. 4	207	43	74	543
Lamps. Safety device for hanging electric-arc.	E. P. Snowden	567,322	Sept. 8	1057	252	76	1490
Lamps. Spark-arrester for arc.	C. Winston	555,199	Feb. 25	2492	588	74	1019
Lamps. Suspension of incandescent gas.	F. E. Nichol	555,732	Mar. 3	419	96	74	1205
Lamps. Wick-adjuster for central-draft.	N. Johnson	564,018	July 14	1371	319	76	270
Lamps. Wick-adjuster for central-draft.	N. Johnson	573,223	Dec. 15	2002	481	77	1697
Lamps. Wick-adjusting device for central-draft.	A. H. Jones	554,935	Feb. 18	2003	474	74	912
Land-roller	C. B. Miller	557,006	Mar. 24	2720	644 645	74	1688
Land-roller	I. E. Stump	552,794	Jan. 7	544	133	74	102
Lantern	C. R. Ashald and J. A. Miller	556,239	Mar. 10	1345	316	74	1397
Lantern	J. T. Casey	561,487	June 2	754	185	75	1512
Lantern	D. W. Corbet	554,663	Feb. 18	1880	442	74	889
Lantern	D. W. Corbet	565,156	Aug. 4	385	90	76	689
Lantern	W. C. Homan	573,148	Dec. 15	1870	450	77	1673
Lantern	T. Langston	556,423	Mar. 17	1720	401	74	1483
Lantern	W. E. Penchard	564,759	July 28	2667	634	76	539
Lantern	D. C. Pryor	564,762	July 28	2671	635	76	540
Lantern	E. M. Rosenbluth	561,816	June 9	1352	323	75	1649
Lantern	D. W. Sweetland and A. C. H. Kraft	557,717	Apr. 7	340	81	75	65
Lantern	W. C. Vajen	555,132	Feb. 25	2376	564	74	997
Lantern bail-holder	H. H. Seim	554,543	Feb. 11	1311	308	74	764
Lantern. Bicycle.	W. L. Keene	557,394	Mar. 31	3412	819	74	1839
Lantern. Bicycle.	F. Rhind	559,916	May 12	1097	244	75	901
Lantern. Bicycle.	F. Rhind	559,948	May 12	1099	245	75	901
Lantern. Bicycle.	F. Rhind	570,893	Nov. 3	867	201	77	802
Lantern. Bicycle.	W. Trabue	564,662	July 28	2489	584	76	508
Lantern-carrying device	Y. Thompson	565,052	Aug. 4	150	35	76	646
Lantern. Foot.	F. Lucas	571,924	Nov. 24	2664	631	77	1195
Lantern for use in manufacturing pipes.	E. M. D. André	561,691	June 9	1123	267 268	75	1607
Lantern-frame	F. K. Wright	570,589	Nov. 3	292	72	77	692
Lantern hanger. Signal.	E. R. Knowles	555,320	Feb. 25	2708	635	74	1059
Lantern. Hurricane.	H. D. Hinks	572,895	Dec. 8	1397	358	77	1565
Lantern-holder	G. T. Van Riper	568,592	Sept. 29	3285	789	76	1948
Lantern latch. Bicycle.	F. Rhind	559,949	May 12	1101	245	75	902
Lantern-lighter	C. E. Case	570,379	Oct. 27	2968	704	77	599
Lantern. Magic.	T. S. Barbour	574,054	Dec. 29	3551	847 848	77	2017
Lantern. Magic.	H. L. Hastings and W. Russell	564,177	July 14	1671	390 391	76	327
Lantern. Miner's	H. Delzell	567,889	Sept. 15	2003	481	76	1684
Lantern. Optical.	S. W. Allen	569,249	Oct. 20	1992	475 476	77	403
Lantern or other burner. Magic.	T. Goodwin	555,947	Mar. 10	797	191	74	1298
Lantern. Signal.	W. R. Dodson	556,259	Mar. 10	1388	326	74	1407
Lantern. Signal.	W. S. Hamm	553,462	Jan. 21	1749	417	74	355
Lantern. Signal.	T. J. Waddell	568,820	Oct. 6	183	44	77	37
Lantern-slide mat	W. H. Olmsted	574,214	Dec. 29	3884	925	77	2075
Lantern-support	E. D. Segar	571,803	Nov. 24	2436	581	77	1153
Lantern. Tubular.	C. Bergener	572,949	Dec. 15	1520	364	77	1605
Lantern. Tubular.	F. K. Wright	570,588	Nov. 3	290	71	77	692
Lanterns. Slide-carrying device for magic.	D. D. O'Brien	568,695	Sept. 29	3471	831	76	1985
Lanterns, &c. Ventilator for.	W. A. Bourne	569,572	Oct. 13	1484	349	77	296
Lap-board.	S. M. Rivers	564,843	July 28	2798	666	76	562
Lap-robe.	C. Zimmerman	560,961	May 26	2976	683	75	1317
Lapping-machine	A. Borios	566,372	Aug. 25	2571	628	76	1154
Lard, fats, oils, &c. Machine for mixing and distributing	J. F. Addison	555,551	Mar. 3	117	26, 27	74	1151
Last	J. W. Barlow	568,326	Sept. 29	2794	671	76	1859
Last	F. Chase	565,531	Aug. 11	1080	259	76	836
Last	M. F. Decker	563,573	July 7	577	133	76	108
Last	W. and C. E. Gordon	556,096	Mar. 10	1087	259	74	1350
Last	A. M. Leighton	566,692	Aug. 25	3112	760	76	1256
Last	H. G. Locke	557,210	Mar. 31	3091	741	74	1778
Last	H. G. Locke	559,492	May 5	246	56	75	730
Last-block fastener	A. T. Harper	566,515	Aug. 25	2855	694	76	1207
Last-block fastener	E. S. Morton	553,655	Jan. 28	2099	496	74	435
Last-clasp for lasting-machines	J. A. Dunphy	569,182	Oct. 13	798	187	77	168
Last or tree	E. C. Colver	573,644	Dec. 22	2810	665	77	1866
Last. Pneumatic.	G. C. Bemis	555,996	Mar. 10	890	213	74	1317
Last. Shoemaker's	J. A. Colby	570,154	Oct. 27	2524	598	77	516
Last-standard.	F. L. Koffel	566,081	Aug. 18	2065	503	76	1042
Last tack-holder	I. O. Littlefield	562,631	June 23	2741	664	75	1945
Lasts. Machine for trimming ends of shoe.	H. K. Gardiner	555,912	Mar. 3	726	175	74	1264
Lasting apparatus	L. Goddu	559,130	Apr. 28	2873	692 693	75	591
Lasting boot or shoe toes. Machine for.	O. Criddle	560,896	May 26	2871	658	75	1297
Lasting-machine	T. Barrett	558,026	Apr. 14	932	231	75	193
Lasting-machine	G. W. Carter	562,119	June 16	1878	455	75	1767
Lasting-machine	F. Chase	571,339	Nov. 17	1630	387	77	986
Lasting-machine	F. Chase	571,429	Nov. 17	1772	422 423 424	77	1011
Lasting-machine	G. W. Copeland, J. E. Crisp, E. F. Grandy, and W. Avery.	558,043	Apr. 14	967	236	75	199
Lasting-machine	G. Ferguson	569,017	Oct. 6	521	119 120	77	99

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Lasting-machine	I. Fréchette	567,566	Sept. 8	1449	{ 348 349 152 153 154	{ 76	1561
Lasting-machine	E. F. Grandy	552,834	Jan. 7	627	{ 153 154	{ 74	118
Lasting-machine	W. S. Hamm	570,220	Oct. 27	2641	{ 626 355 356	{ 77	539
Lasting-machine	J. M. Holladay	561,887	June 9	1470	{ 465 466	{ 75	1672
Lasting-machine	J. M. Holladay	565,987	Aug. 18	1919	{ 378 704 705	{ 76	1014
Lasting-machine	C. H. Kelley	564,152	July 14	1614	{ 378 704 705	{ 76	317
Lasting-machine	S. W. Ladd	564,931	July 28	2957	{ 149 150	{ 76	592
Lasting-machine	C. P. Lawrence	559,724	May 5	623	{ 150 151	{ 75	801
Lasting-machine	C. P. Lawrence	559,725	May 5	626	{ 150 412 284	{ 75	802
Lasting-machine	W. Shaw	571,404	Nov. 17	1731	{ 412 284	{ 77	1003
Lasting-machine	S. Snow	569,357	Oct. 13	1110	{ 284 604	{ 77	229
Lasting-machine	E. E. Worcester	560,767	May 26	2629	{ 604 458	{ 75	1251
Lasting-machine clamping mechanism	F. Chase	571,509	Nov. 17	1920	{ 458 37	{ 77	1038
Lasting-machine nipper-jaw	G. A. Willard	566,831	Sept. 1	160	{ 37 890	{ 76	1313
Lasting-machine pad-holder	C. O. Ray	569,231	Oct. 13	890	{ 212 51	{ 77	186
Lasting-machine wiper	G. A. Willard	561,189	June 2	212	{ 51 76	{ 75	1408
Lasting-tool	L. D. Junkins	566,863	Sept. 1	217	{ 50 726	{ 76	1323
Lasting-tool	S. Snow	568,463	Sept. 29	3026	{ 726 655	{ 76	1202
Latch	O. H. Ayars	560,888	May 26	2860	{ 655 508	{ 75	1295
Latch	C. H. Brigden	560,568	May 19	2221	{ 508 400	{ 75	1158
Latch	H. F. Edwards	565,847	Aug. 11	1633	{ 400 270	{ 76	940
Latch	H. F. Keil	554,448	Feb. 11	1163	{ 270 267	{ 74	737
Latch	C. E. Whipple	553,087	Jan. 14	1099	{ 267 646 647	{ 74	220
Latch	H. B. Worsey	555,354	Feb. 25	2761	{ 646 647	{ 74	1069
Latch and lock. Combined	C. E. Ambs	568,653	Sept. 29	3400	{ 813 603	{ 76	1971
Latch and lock. Combined	J. R. Bedell and C. J. Blackburn	552,925	Apr. 28	2482	{ 603 83	{ 75	516
Latch and lock. Combined	A. L. Smith	566,941	Sept. 1	355	{ 83 48	{ 76	1350
Latch and lock. Combined	A. Watson	559,471	May 5	213	{ 48 439	{ 75	723
Latch and lock. Door	C. H. Brigden	560,389	May 19	1924	{ 439 285 286	{ 75	1105
Latch and operating device. Gate	T. Smith	561,732	June 9	1203	{ 285 286	{ 75	1623
Latch. Door	A. T. Green	557,578	Apr. 7	96	{ 24 331	{ 75	19
Latch. Gate	R. D. Goodlett	558,276	Apr. 14	1356	{ 331 165	{ 75	273
Latch. Gate	W. J. Hays	572,485	Dec. 1	691	{ 165 233	{ 77	1410
Latch. Gate	H. Hodel	572,638	Dec. 8	969	{ 233 768	{ 77	1483
Latch. Gate	F. W. Lechner	559,295	Apr. 28	3179	{ 768 768	{ 75	647
Latch. Gate	J. T. Lewis	559,296	Apr. 28	3179	{ 768 495	{ 75	648
Latch. Gate	C. Whiteman	569,904	Oct. 20	2080	{ 495 546	{ 77	420
Latch-guide	T. Donahue	553,782	Jan. 28	2302	{ 546 112	{ 74	475
Latch-lever	E. J. Muller	570,674	Nov. 3	477	{ 112 559 560	{ 77	727
Latch mechanism. Night	C. H. Brigden	562,373	June 23	2302	{ 559 560	{ 75	1863
Latch. Sliding-door	X. Caverno and W. E. Fowler	565,428	Aug. 11	862	{ 204 493	{ 76	796
Lathe	G. D. Chapman	566,060	Aug. 18	2032	{ 493 820	{ 76	1036
Lathe	E. Childs. (Reissue)	11,554	July 7	820	{ 196 32	{ 76	153
Lathe	C. G. Dahlgren and J. H. Svensson	561,095	June 2	32	{ 9 266	{ 75	1373
Lathe	E. J. McClellan	572,709	Dec. 8	1098	{ 266 410 411	{ 77	1507
Lathe	F. Schneider	571,402	Nov. 17	1726	{ 410 411	{ 77	1003
Lathe attachment	W. H. Gripman	568,612	Sept. 29	3324	{ 796 115	{ 76	1957
Lathe. Automatic	J. M. Wells and O. E. Wiltsie	559,645	May 5	504	{ 116 607	{ 75	778
Lathe. Burring or milling	A. Petereit	571,391	Nov. 17	1711	{ 407 608	{ 77	1000
Lathe. Button-turning	C. Krewson	566,327	Aug. 25	2479	{ 607 608	{ 76	1137
Lathe center-rest	M. Vierengel	568,551	Sept. 29	3201	{ 771 564	{ 76	1933
Lathe. Crank-axle	J. L. Bogert	568,063	Sept. 22	2335	{ 564 565	{ 76	1756
Lathe-dog	H. J. Aichele	555,751	Mar. 3	449	{ 107 472	{ 74	1210
Lathe. Engine	V. F. Prentice	553,394	Jan. 28	1990	{ 472 657	{ 74	416
Lathe. Engine	W. L. Schellenbach	557,031	Mar. 24	2767	{ 657 144 145	{ 74	1697
Lathe for boring and facing pulleys	P. Shellenbach	554,147	Feb. 4	639	{ 144 145	{ 74	621
Lathe for operating tools by flexible shafts	A. W. Browne and G. L. Harrison	562,508	June 23	2513	{ 609 458	{ 75	1903
Lathe for pointing miners' sprags	W. J. Frost	562,128	June 16	1889	{ 458 283	{ 75	1770
Lathe for turning spiral patterns on sticks	C. J. Petersen	561,724	June 9	1192	{ 283 281 282	{ 75	1621
Lathe for turning wood moldings, &c.	G. E. Mertz	561,720	June 9	1185	{ 281 282	{ 75	1619
Lathe. Hollow-mandrel	J. Harley	559,578	May 5	386	{ 93 622 623	{ 75	758
Lathe. Hub-turning	J. C. Heald	571,901	Nov. 24	2625	{ 622 623	{ 77	1188
Lathe knife and cutter-head	L. G. Merritt	573,098	Dec. 15	1780	{ 428 146	{ 77	1656
Lathe milling attachment	C. C. Keyser	565,277	Aug. 4	618	{ 146 698 699	{ 76	729
Lathe. Multiple-spindle	C. P. Topping	573,726	Dec. 22	2954	{ 698 699	{ 77	1891
Lathe. Nulling or beading	E. Rutishauser	557,894	Apr. 7	644	{ 154 155	{ 75	121
Lathe-spindles. Antifriction-bearing for	J. J. Hurley	560,001	May 12	1197	{ 266 449	{ 75	923
Lathe. Spool-cutting	J. D. Kingsland	554,881	Feb. 18	1910	{ 449 69	{ 74	894
Lathe steady-rest	F. Schnebelin and O. Striegel	563,418	July 7	305	{ 69 52	{ 76	60
Lathe tool-carriage	D. F. Cornell	559,482	May 5	233	{ 52 400	{ 75	727
Lathe tool-holder	N. Nelson	567,685	Sept. 15	1661	{ 400 397	{ 76	1618
Lathe. Turret	J. Hartness	556,415	Mar. 17	1702	{ 397 512 513	{ 74	1481
Lathe. Wood-turning	D. Adams	569,946	Oct. 20	2162	{ 512 513	{ 77	435
Lathe. Wood-turning	C. W. Wilder	569,776	Oct. 20	1875	{ 445	{ 77	381

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Lathes. Attachment for woodworking.....	J. G. Hailstrom.....	569,197	Oct. 13	823	{ 192 193 }	{ 77 77 }	173
Lathes. Rest for pivoting.....	J. K. P. Miller.....	562,407	June 23	2350	574	75	1872
Lathing-machine.....	H. Hull.....	553,242	Jan. 21	1367	333	74	285
Lathing. Metallic.....	A. R. Fordyce.....	553,306	Jan. 21	1494	{ 358 359 }	{ 74 74 }	308
Lathing. Metallic.....	A. R. Fordyce.....	557,658	Apr. 7	253	61	75	48
Lathing. Wire-cloth.....	W. Orr.....	560,531	May 19	2155	492	75	1147
Laths and partitions. Support for wire.....	F. J. Hearnshaw.....	573,512	Dec. 22	2555	606	77	1815
Latrine.....	J. A. Wills and L. E. Jordan.....	573,744	Dec. 22	2984	707	77	1898
Laundering apparatus.....	D. Reynolds.....	554,795	Feb. 18	1749	410	74	864
Laundry-list indicator.....	R. Lundqvist.....	570,319	Oct. 27	2872	683	77	581
Laundry machinery. Tape for.....	A. Conkling and T. S. Wiles.....	553,669	Jan. 28	2114	501	74	438
Laundry-register and match-safe. Combined.....	F. C. Morrison.....	554,712	Feb. 18	1611	390	74	838
Lavatory.....	R. Parrish.....	561,026	May 26	3071	708	75	1335
Lavatory.....	W. Scott.....	559,147	Apr. 28	2909	703	75	597
Lavatory appliance.....	R. Parrish.....	561,027	May 26	3074	{ 708 709 }	{ 75 75 }	1336
Lavatory waste, overflow, and supply fixture.....	J. E. Boyle.....	562,210	June 16	2025	489	75	1796
Lawn-rake.....	F. E. Kohler.....	554,824	Feb. 18	1807	424	74	877
Lawn-rake.....	W. H. Lewis.....	567,602	Sept. 15	1522	366	76	1590
Lawn-sprinkler.....	C. A. Ashton.....	556,610	Mar. 17	2048	479	74	1544
Lawn-sprinkler.....	J. R. Cadwell.....	563,220	June 30	3810	913	75	2170
Lawn-sprinkler.....	J. H. Fry.....	572,000	Nov. 24	2790	658	77	1219
Lawn-sprinkler.....	I. H. Gingrich.....	573,083	Dec. 15	1758	422	77	1652
Lawn-sprinkler.....	G. H. Newell.....	567,916	Sept. 15	2035	488	76	1691
Lawn-sprinkler.....	C. D. Rathbun.....	568,042	Sept. 22	2293	555	76	1749
Lawn-sprinkler.....	V. C. Rocholl.....	554,628	Feb. 11	1478	346	74	795
Lawn-sprinkler.....	W. Rundquist.....	562,245	June 16	2081	505	75	1806
Lawn-sprinkler.....	L. H. Sholder.....	569,243	Oct. 13	911	218	77	190
Lawn-sprinkler.....	C. L. Travis.....	573,933	Dec. 29	3316	792	77	1973
Lawn-sprinkler.....	J. P. Van Sickle.....	564,349	July 21	1952	460	76	390
Leaching apparatus.....	L. D. Armstrong.....	570,861	Nov. 3	802	184	77	788
Lead bullion. Desilverizing.....	W. H. Howard.....	563,769	July 14	904	216	76	185
Lead by electrolysis. Manufacturing white.....	A. B. Browne and E. D. Chaplin.....	553,232	Feb. 25	2541	598	74	1028
Lead fumes. Apparatus for condensing.....	O. R. Moffet.....	554,945	Feb. 18	2015	477	74	914
Lead. Manufacture of white.....	A. B. Browne.....	563,555	July 7	546	125	76	103
Lead. Manufacture of white.....	W. P. and W. Tatham.....	562,437	June 23	2405	.....	75	1883
Lead. Manufacturing white.....	A. B. Browne and E. D. Chaplin.....	563,553	July 7	541	125	76	102
Lead oxid. Method of and means for producing.....	J. Noad.....	570,712	Nov. 3	542	126	77	739
Lead oxids. Manufacturing.....	A. B. Browne and E. D. Chaplin.....	563,554	July 7	544	125	76	102
Lead-press.....	H. B. Cobb.....	558,257	Apr. 14	1321	{ 322 323 }	{ 75 75 }	267
Lead-press.....	E. H. Johnson.....	572,546	Dec. 8	798	191	77	1445
Lead scum or litharge. Reducing.....	J. Williams, Sr.....	556,793	Mar. 24	2356	.....	74	1619
Leading device.....	A. J. Knight.....	557,832	Apr. 7	552	133	75	104
Leaf-spring.....	G. H. Williams.....	573,121	Dec. 15	1817	438	77	1663
Leaf-turner.....	E. L. Badgley.....	569,399	Oct. 13	1174	{ 273 279 }	{ 77 77 }	240
Leak-alarm.....	S. J. Clouston.....	571,340	Nov. 17	1631	387	77	986
Leak-stopper.....	C. Schroeder.....	569,430	Oct. 13	1223	287	77	248
Leather.....	F. E. Burlingame.....	563,561	July 7	556	.....	76	104
Leather-beading machine.....	A. J. Schmiedl.....	564,538	July 21	2264	531	76	447
Leather. Converting hides into.....	F. E. Burlingame.....	563,559	July 7	554	.....	76	104
Leather-cutting machine.....	H. Ellis.....	562,126	June 16	1866	457	75	1769
Leather-cutting machine.....	A. L. Sweet.....	571,292	Nov. 10	1551	{ 368 369 }	{ 77 77 }	956
Leather-cutting machine.....	E. Van Osta.....	558,864	Apr. 21	2360	{ 575 576 }	{ 75 75 }	477
Leather-dressing.....	J. Moore.....	572,439	Dec. 1	624	.....	77	1397
Leather-dressing compound.....	R. Stevens and W. H. Schroeder.....	555,537	Mar. 3	90	.....	74	1146
Leather-finishing machine.....	J. Worsdell.....	561,465	June 2	720	{ 177 178 }	{ 75 75 }	1505
Leather-folding machine.....	J. I. Merritt.....	569,930	Oct. 20	2122	505	77	427
Leather-folding machine.....	G. Pollock.....	557,341	Mar. 31	3324	798	74	1822
Leather for forming pockets. Machine for splitting.....	A. L. Sweet.....	571,291	Nov. 10	1549	{ 367 368 }	{ 77 77 }	955
Leather forming or molding machine.....	A. E. Perry and W. Gordon.....	564,641	July 28	2461	579	76	502
Leather graining and softening machine.....	M. M. Scott.....	552,857	Jan. 7	667	162	74	126
Leather-graining machine.....	T. J. Quinn.....	556,162	Mar. 10	1212	{ 283 284 }	{ 74 74 }	1374
Leather. Instrument for measuring thickness of.....	M. Tidd.....	564,235	July 21	1763	412	76	358
Leather-loop-finishing machine.....	A. L. Sweet.....	571,294	Nov. 10	1554	{ 369 370 }	{ 77 77 }	957
Leather. Machine for recessing.....	R. McKay.....	570,558	Nov. 3	236	59	77	622
Leather. Making.....	S. P. Sadler.....	556,325	Mar. 10	1537	.....	74	1435
Leather-rolling apparatus.....	E. D. Evans.....	564,511	July 21	2219	521	76	440
Leather shoe-laces. Machine for cutting.....	E. Rahm.....	564,899	July 28	2287	692	76	579
Leather-slitting knife.....	F. J. Bringham.....	561,860	June 9	1434	346	75	1665
Leather-slitting machine.....	A. L. Sweet.....	571,295	Nov. 10	1558	370	77	958
Leather-snipping machine.....	C. A. Bonney.....	572,352	Dec. 1	470	110	77	1367
Leather-splitting machine.....	N. Leidgen.....	554,763	Feb. 18	1735	407	74	861
Leather-staking machine.....	L. Lichtenstein.....	553,682	Jan. 28	2137	506	74	442
Leather-staking machine.....	L. Lichtenstein.....	553,683	Jan. 28	2139	506	74	442
Leather-stretching machine.....	F. J. Stanley.....	568,377	Sept. 29	2885	693	76	1876
Leather strings. Machine for cutting.....	W. Kootz.....	572,000	June 16	1964	406	75	1729
Leather strips or strings. Machine for cutting.....	W. Kootz.....	561,999	June 16	1662	406	75	1729
Leather. Tawing.....	S. Chadwick.....	561,044	May 26	3104	.....	75	1342
Leather-trimming machine.....	A. L. Sweet.....	571,293	Nov. 10	1553	369	77	956
Leather-working machine.....	J. Cryderman.....	560,762	May 26	2659	611	75	1257
Leather-working machine.....	R. Steyer.....	552,791	Jan. 7	539	132	74	101
Ledger. Perpetual.....	H. H. Hoffmann.....	568,251	Sept. 22	2668	639	76	1819
Leer-pan.....	W. Meyer.....	564,526	July 21	2241	526	76	44
Leg. Artificial.....	W. Andrews.....	563,247	July 7	1	1	76	3
Leg. Artificial.....	H. Heinecke.....	572,989	Dec. 15	1588	381	77	1619

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Leg. Artificial.....	D. Hershberger. (Reissue).....	11,522	Jan. 28	2371	585	74	486
Leg-brace.....	H. R. Allen.....	559,835	May 12	885	198	75	863
Leg-covering.....	G. H. Finger and W. J. Ford.....	571,918	Nov. 24	2655	629	77	1193
Leg-protector.....	A. Herbelin.....	562,608	June 23	2706	655	75	1939
Legging.....	J. R. Barroll.....	560,831	May 26	2734	622	75	1272
Legging. Gentleman's storm.....	C. Fisher.....	562,784	June 23	3003	725	75	1996
Lemon-juice extractor.....	T. Curley.....	569,747	Oct. 20	1828	433	77	373
Lemon-squeezer.....	H. Malinow.....	560,273	May 19	1717	390	75	1069
Lemon-squeezer.....	J. T. White.....	572,849	Dec. 8	1336	321	77	1553
Lemons, &c. Juice-extractor for.....	S. R. Dummer.....	562,125	June 16	1884	457	75	1769
Lens.....	H. L. H. Schroeder.....	554,737	Feb. 18	1652	390	74	846
Lens.....	H. D. Taylor.....	568,052	Sept. 22	2311	561	76	1753
Lens-cutting machine.....	J. B. Gury.....	554,677	Feb. 18	1556	367	74	827
Lens for optical or other purposes.....	F. von Voigtländer.....	567,326	Sept. 8	1063	253	76	1491
Lens-mount.....	W. C. Homan.....	568,027	Sept. 22	2269	549	76	1745
Lens rings. Tool for producing test.....	M. J. Hinden.....	562,183	June 16	1984	480	75	1788
Lens, spectacles, or eyeglasses.....	A. H. Hart.....	573,087	Dec. 15	1764	423	77	1653
Lenses. Device for determining optical axes and centers of.....	H. Cole.....	563,745	July 14	863	205	76	177
Letter-box.....	W. B. Bethune and J. McPherson.....	567,330	Sept. 8	1070	255	76	1492
Letter-box.....	W. Cook.....	560,477	May 19	2077	473	75	1132
Letter-box.....	F. G. Gaschlin.....	570,628	Nov. 3	389	92	77	710
Letter-box.....	J. W. Hentz.....	572,893	Dec. 8	1395	337	77	1564
Letter-box.....	E. G. Hower.....	561,589	June 9	947	226	75	1574
Letter-box.....	W. Peck.....	562,194	June 16	2001	484	75	1791
Letter-box case and memorandum. Post-office.....	D. J. Ayres.....	570,862	Nov. 3	804	184	77	788
Letter-box. Safety street.....	J. W. Hentz.....	573,220	Dec. 15	1994	480	77	1696
Letter-carrier's register.....	J. D. Miller.....	559,736	May 5	642	155	75	804
Letter-clasp.....	S. J. and I. Neugroschland C. Walters.....	554,370	Feb. 11	1017	236	74	708
Letter-clip.....	C. C. McPhee.....	553,255	Jan. 21	1393	339	74	290
Letter-holder.....	J. Teeter.....	556,383	Mar. 17	1642	324	74	1469
Letter-marking-machine register.....	M. J. Dolphin.....	554,248	Feb. 11	809	184 185	74	669
Letter or character. Sign.....	R. G. Lake.....	570,313	Oct. 27	2860	678	77	578
Letter posting and stamping machine. Coin-freed.....	D. di B. Savorgnan.....	564,845	July 28	2800	666 667 668 669 761	76	563
Letter posting or stamping machine. Coin-freed.....	D. di B. Savorgnan.....	562,854	June 30	3147	762 763 764	75	2040
Letter. Sign.....	G. J. B. Rodwell and L. Gargare.....	563,312	July 7	136	32	76	29
Level.....	T. F. Deck.....	573,211	Dec. 15	1979	476	77	1693
Level.....	E. Hohnbaum.....	555,771	Mar. 3	472	113	74	1215
Level.....	J. A. Traut.....	565,097	Aug. 4	253	61	76	663
Level.....	J. A. Traut.....	565,098	Aug. 4	255	61	76	663
Level.....	E. P. West.....	559,090	Apr. 28	2768	670	75	572
Level and plumb. Spirit.....	W. M. Morton.....	573,682	Dec. 22	2882	681	77	1878
Level. Engineer's.....	C. L. Berger.....	555,231	Feb. 25	2537	598	74	1027
Level or plumb.....	W. A. Francisco.....	567,539	Sept. 8	1402	337	76	1552
Level. Plumb.....	J. Appleton.....	566,555	Aug. 25	2912	710	76	1218
Level. Plumb.....	L. J. J. Aubert.....	555,489	Mar. 3	0	3	74	1132
Level. Plumb.....	F. G. Juney.....	569,500	Oct. 13	1348	317	77	270
Level. Plumb.....	E. J. Simmons.....	558,219	Apr. 14	1258	306	75	255
Level. Spirit.....	E. L. Phears.....	574,110	Dec. 29	3648	871	77	2034
Level. Spirit.....	C. F. Richardson.....	570,056	Oct. 27	2342	553	77	481
Levels. Apparatus for adjusting spirit.....	J. A. Traut.....	565,096	Aug. 4	251	61	76	663
Leveler and grader.....	D. W. Jones.....	566,716	Aug. 25	3158	773	76	1263
Leveling instrument.....	E. L. Kelly.....	567,347	Sept. 8	1096	264	76	1497
Lever and rod connection.....	E. H. Dodge.....	553,515	Jan. 28	1844	438	74	389
Lever-bracket. Supporting.....	J. M. Boyer.....	557,955	Apr. 7	766	182	75	144
Lever-handle.....	S. J. Meeker.....	564,208	July 21	1721	402	76	349
Library-stack.....	D. A. Beckwith.....	570,657	Nov. 3	451	106	77	723
Lid-support.....	C. N. Choate.....	560,838	May 26	2745	629	75	1274
Lid-support.....	E. F. Pooley.....	564,574	July 21	2338	549	76	460
Life and wheel guard. Adjustable.....	E. Peckham.....	555,528	Mar. 3	72	16	74	1143
Life-boat.....	W. F. James.....	566,766	Sept. 1	56	14, 15	76	1291
Life-boat.....	R. D. Mayo.....	565,768	Aug. 11	1505	367	76	916
Life-boat.....	R. D. Mayo.....	565,769	Aug. 11	1508	367	76	916
Life-boat.....	J. C. Walker.....	561,456	June 2	704	173 174	75	1503
Life-buoy.....	G. H. C. Brunswig.....	564,778	July 28	2699	641	76	544
Life-guard for freight-trains.....	J. W. Brooker.....	555,925	Mar. 10	754	182	74	1290
Life-line or safety device.....	R. S. Checkley.....	560,391	May 19	1928	441	75	1106
Life-preserver.....	D. Coplin.....	563,747	July 14	865	206	76	178
Life-preserver.....	J. J. Daly.....	556,088	Mar. 10	1071	256	74	1347
Life-preserver.....	T. Gordon.....	572,109	Dec. 1	22	6	77	1282
Life-saving apparatus.....	L. D. B. Shaw.....	568,960	Oct. 6	419	93, 94	77	80
Life-saving apparatus for vessels.....	L. Konrad, G. P. Fromm, and H. Kauer.....	568,982	Oct. 6	463	105	77	88
Life-saving float and its detaching device.....	L. Violet-Chabrand.....	556,597	Mar. 17	2024	472 473 474	74	1540
Lift or hoist for warehouses.....	H. F. Donaldson.....	570,913	Nov. 10	899	209	77	834
Lifter:							
See Clothes-lifter. Stove-lifter.							
Kettle-lifter. Stove-lid lifter.							
Pan-lifter. Tack-lifter.							
Plate-lifter. Wagon-body lifter.							
Plate or pan lifter.							
Lifter and carrier.....	D. Broderick.....	559,669	May 5	541	125	75	785
Lifting and carrying device.....	D. Broderick.....	570,622	Nov. 3	380	91	77	708
Lifting device.....	O. T. Jensen.....	567,681	Sept. 15	1652	398	76	1616

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Lifting device.....	C. B. Ulrich.....	561,363	June 2	531	134	75	1472
Lifting device.....	C. A. Vanwagener.....	556,837	Mar. 24	2424	569	74	1632
Lifting-jack.....	M. Anderson.....	554,612	Feb. 11	1438	337	74	788
Lifting-jack.....	R. A. Arnold.....	560,056	May 12	1299	292	75	941
Lifting-jack.....	E. Covert.....	558,581	Apr. 21	1884	456	75	388
Lifting-jack.....	W. C. Crawford.....	555,802	Mar. 3	522	127	74	1225
Lifting-jack.....	P. M. Gunter.....	555,091	Feb. 25	2306	548	74	963
Lifting-jack.....	J. D. Gurganus.....	557,579	Apr. 7	97	24	75	20
Lifting-jack.....	J. C. Hackett.....	569,020	Oct. 6	527	121	77	100
Lifting-jack.....	W. L. Hall.....	570,550	Nov. 3	212	56	77	676
Lifting-jack.....	L. D. Hathaway.....	559,579	May 5	383	94	75	758
Lifting-jack.....	J. G. Lane.....	557,836	Apr. 7	560	134	75	105
Lifting-jack.....	F. Lombard.....	574,036	Dec. 29	3515	839	77	2009
Lifting-jack.....	M. M. Moore.....	564,445	July 21	2117	495	76	420
Lifting-jack.....	C. T. Moorman.....	569,585	Oct. 13	1511	356	77	301
Lifting-jack.....	E. M. Robinson.....	555,265	Feb. 25	2601	{ 610 611 }	74	1038
Lifting-jack.....	J. H. Sheridan.....	558,427	Apr. 14	1616	392	75	322
Lifting-jack.....	H. S. Spence.....	570,614	Nov. 3	331	82	77	700
Lifting-jack.....	W. C. Woodward.....	573,950	Dec. 29	3350	803	77	1980
Lifting-jack.....	H. E. and H. Z. Yontz.....	559,475	May 5	321	49	75	725
Lifting-jack.....	T. N. Ziegler.....	566,117	Aug. 18	2135	519	76	1054
Lifting-jack. Lever.....	J. C. Coffee.....	554,579	Feb. 11	1370	322	74	777
Ligature-receptacle.....	C. J. Daniels.....	562,173	June 16	1964	476	75	1784
Ligature-receptacle.....	G. M. Stratton.....	554,040	Feb. 4	435	95	74	584
Ligature-receptacle.....	G. M. Stratton.....	554,041	Feb. 4	436	96	74	584
Light: See Search-light. Vault-light. Signal-light.							
Light-emitting body and producing same.....	T. Mace.....	574,358	Dec. 29	4129	981	77	2121
Lighthouse foundation.....	A. F. Eells.....	560,088	May 12	1365	306	75	953
Light-recording mechanism.....	T. E. Knauss and W. K. Liggett.....	562,834	June 30	3113	754	75	2034
Lighting apparatus.....	H. H. Norrington.....	554,296	Feb. 11	894	206	74	686
Lighting apparatus. Building.....	H. H. Norrington.....	554,295	Feb. 11	893	205	74	685
Lighting device.....	G. J. Hacker.....	572,930	Dec. 8	1476	355	77	1581
Lighting device. Automatic.....	F. Rhind.....	563,412	July 7	296	67, 68	76	59
Lighting, heating, and cooking. Apparatus for.....	J. G. Pennycook.....	571,014	Nov. 10	1072	250	77	866
Lighting implement.....	R. F. Cooke.....	557,555	Apr. 7	38	11	75	9
Lighting or extinguishing apparatus. Automatic.....	S. C. Stickie.....	553,198	Jan. 14	1294	313	74	257
Lighting and water conductor. Combined.....	L. Adams.....	578,750	Dec. 22	2992	709	77	1899
Lightning-arrester.....	W. Cooper.....	561,073	May 26	3145	{ 726 727 }	75	1349
Lightning-arrester.....	J. P. Culgan.....	571,109	Nov. 10	1250	291	77	898
Lightning-arrester.....	E. G. W. C. Hoffmann.....	553,528	Jan. 28	1874	443	74	395
Lightning-arrester.....	A. de Khotinsky.....	571,669	Nov. 17	2183	526	77	1086
Lightning-arrester.....	E. G. P. Oelschläger and K. O. F. Schrottke.....	566,011	Aug. 18	1961	475	76	1023
Lightning-arrester.....	A. J. Wurts.....	571,103	Nov. 10	1240	288	77	896
Lightning-arrester and automatic fuse-block.....	T. L. Carleton.....	563,257	July 7	38	9	76	9
Lightning-arrester. Automatic.....	G. P. Johnson.....	570,406	Oct. 27	3023	716	77	609
Lightning-rod ball.....	E. K. Hum.....	556,984	Mar. 24	2669	627	74	1678
Limb. Artificial.....	B. F. Rounds.....	567,774	Sept. 15	1804	433	76	1645
Limb. Artificial.....	R. Bowman.....	563,706	July 7	792	{ 189 190 }	76	148
Limb. Artificial.....	E. H. Erickson.....	561,979	June 16	1632	{ 397 398 }	75	1723
Limb. Artificial.....	E. H. Erickson.....	573,266	Dec. 15	2072	497	77	1709
Limb. Artificial.....	F. Honegger.....	561,511	June 2	797	{ 194 195 }	75	1521
Limb. Artificial.....	F. Honegger.....	566,684	Aug. 25	3100	757	76	1254
Limb. Artificial.....	S. M. Kellum.....	558,816	Apr. 21	2284	555	75	462
Limb. Artificial.....	F. W. Neubert.....	556,201	Mar. 10	1282	300	74	1386
Limb. Artificial.....	J. Neyquist.....	574,212	Dec. 29	3881	924	77	2074
Limekiln.....	E. V. Wingard.....	566,106	Aug. 18	2117	516	76	1051
Lime-light apparatus.....	J. G. Parvin.....	553,070	Jan. 14	1066	260	74	213
Line-casting machine.....	J. C. Fowler.....	552,830	Jan. 7	621	151	74	117
Line-clamp.....	P. Rohne.....	554,006	Feb. 4	370	81	74	573
Line-fastener.....	J. P. Pegan.....	566,974	Sept. 1	424	99	76	1361
Line-fastener.....	J. Schwarzmann.....	555,340	Feb. 25	2739	642	74	1065
Line-holder.....	J. W. Gray.....	557,800	Apr. 7	501	120	75	95
Line or rope heaving apparatus.....	W. Tyree.....	561,295	June 2	410	101	75	1449
Lined pipe.....	P. A. Calahart.....	562,354	June 16	2273	551	75	1841
Linen-rubber.....	M. S. Lewin.....	574,099	Dec. 29	3632	867	77	2031
Liniment.....	C. G. Johnson.....	572,898	Dec. 8	1403		77	1566
Linoleum. Apparatus for making inlaid or mosaic.....	G. F. Eisenhardt and T. J. Flynn.....	557,785	Apr. 7	469	{ 111 112 113 114 }	75	89
Linoleum. Machine for making continuous inlaid.....	L. W. Lowe.....	562,840	June 30	3122	756	75	2035
Linoleum, &c. Machine for manufacturing.....	J. Ingleby.....	553,342	Jan. 21	1554	371	74	318
Linoleum, &c. Machine for manufacturing inlaid.....	J. Ingleby.....	561,400	June 2	599	{ 149 150 }	75	1484
Linoleum or other floor-cloths. Machine for making inlaid.....	W. G. Thomson.....	564,832	July 28	2818	{ 671 672 }	76	566
Linotype-bars. Letter for.....	A. B. Adair.....	565,252	Aug. 4	585	138	76	723
Linotype-bars. Means for trimming.....	M. H. Whittaker.....	562,560	June 23	2607	633	75	1919
Linotype-casting machine.....	C. Forth.....	562,955	June 30	3354	{ 806 807 }	75	2084
Linotype-machine.....	C. A. Albrecht.....	560,459	May 19	2052	467	75	1127
Linotype-machine.....	C. E. Allen.....	562,563	June 23	2617	{ 634 635 636 637 }	75	1921
Linotype-machine.....	G. A. Bates.....	572,947	Dec. 15	1514	362	77	1604

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Linotype-machine.....	E. Bertram and E. Sanders.....	563,643	July 7	680	160	76	128
Linotype-machine.....	J. Burger.....	554,770	Feb. 18	1715	402	74	858
Linotype-machine.....	P. T. Dodge.....	565,440	Aug. 11	880	208	76	800
Linotype-machine.....	N. A. Larkin.....	556,993	Mar. 24	2888	633	74	1682
Linotype-machine.....	O. Mergenthaler.....	557,000	Mar. 24	2709	{ 641 642 }	74	1685
Linotype-machine.....	O. Mergenthaler.....	558,406	Apr. 14	1572	{ 383 384 }	75	313
Linotype-machine.....	O. Mergenthaler.....	563,865	July 14	1091	257	76	219
Linotype-machine.....	O. Mergenthaler.....	565,484	Aug. 11	967	231	76	817
Linotype-machine.....	O. Mergenthaler.....	565,486	Aug. 11	975	{ 233 234 235 }	76	818
Linotype-machine.....	O. Mergenthaler.....	565,487	Aug. 11	982	{ 235 236 237 }	76	819
Linotype-machine.....	O. Mergenthaler.....	565,488	Aug. 11	990	{ 237 238 240 }	76	820
Linotype-machine.....	O. Mergenthaler.....	565,490	Aug. 11	998	{ 241 242 243 231 }	76	821
Linotype-machine.....	O. Mergenthaler and C. Muehleisen.....	565,485	Aug. 11	971	{ 232 233 }	76	818
Linotype-machine.....	C. Muehleisen.....	563,868	July 14	1098	258	76	221
Linotype-machine.....	F. Peterhansl.....	556,517	Mar. 17	1904	444	74	1518
Linotype-machine.....	J. W. Phelps.....	554,790	Feb. 18	1744	409	74	863
Linotype-machine.....	J. W. Phelps.....	554,791	Feb. 18	1746	409	74	863
Linotype-machine.....	W. H. Randall.....	560,537	May 19	2162	494	75	1148
Linotype-machine.....	W. S. Scudder.....	565,515	Aug. 11	1055	253	76	831
Linotype-machine.....	S. Smith.....	554,242	Feb. 18	1838	432	74	882
Linotype-machine knife attachment.....	P. T. Balls.....	573,383	Dec. 15	2292	548	77	1749
Linotype-machine. Mergenthaler.....	H. T. Sundstrom.....	557,716	Apr. 7	338	80	75	65
Linotype-machine spacing device.....	P. T. Dodge.....	565,441	Aug. 11	882	209	76	800
Liquid-clarifier.....	W. B. Turner.....	556,593	Mar. 17	2018	471	74	1539
Liquid-conveyer.....	G. Reich.....	556,025	Mar. 10	946	225	74	1325
Liquid-cooling or evaporating apparatus.....	L. R. Alberger.....	556,040	Mar. 10	977	234	74	1330
Liquid-discharging device.....	P. Brandell.....	553,276	Jan. 21	1431	346	74	297
Liquid-dispensing apparatus.....	W. M. Fowler.....	555,284	Feb. 25	2643	{ 619 620 }	74	1047
Liquid-dispensing apparatus.....	M. V. Teetor.....	563,212	June 30	3799	910	75	2169
Liquid-distributing device.....	L. W. Bitting.....	563,645	July 7	683	161	76	129
Liquid-elevating apparatus.....	J. W. Hegeler.....	553,173	Apr. 14	1179	287	75	240
Liquid-elevating apparatus.....	J. G. Pohlé.....	556,436	Mar. 17	1749	406	74	1490
Liquid-fuel burner.....	A. L. Gladwin.....	570,629	Nov. 3	392	93	77	710
Liquid-heater.....	M. G. Wilder.....	557,740	Apr. 7	392	92, 93	75	74
Liquid-holder.....	W. H. Bender.....	557,352	Mar. 31	3343	803	74	1826
Liquid-indicator. Automatic.....	F. A. Morse.....	559,061	Apr. 28	2713	660	75	560
Liquid lifting or forcing apparatus.....	G. J. Kennedy.....	568,445	Sept. 29	2993	720	76	1896
Liquid. Means for clarifying.....	O. E. Michaud.....	555,388	Feb. 25	2819	663	74	1080
Liquid-meter.....	W. M. Fowler.....	570,748	Nov. 3	609	140	77	750
Liquid raising and drawing-off apparatus.....	A. Bonnoront.....	554,576	Feb. 11	1366	321	74	776
Liquid-raising apparatus.....	E. I. Nichols.....	559,595	May 5	417	{ 99 100 }	75	763
Liquid-separator.....	P. L. Kimball.....	565,279	Aug. 4	621	147	76	730
Liquid-separator.....	P. L. Kimball.....	565,280	Aug. 4	622	147	76	730
Liquid-separator. Centrifugal.....	M. L. Hoyt.....	562,782	June 23	2999	725	75	1995
Liquid-separator. Centrifugal.....	C. J. Lundstrom.....	571,838	Nov. 24	2498	592	77	1165
Liquid-separator. Centrifugal.....	E. G. N. Salenius.....	559,065	Apr. 28	2718	661	75	561
Liquid-separators. Dirt-arrester for.....	T. H. Springer.....	573,833	Dec. 22	3138	747	77	1826
Liquid-sprinkling device.....	I. Mamann and J. T. Kelly.....	564,021	July 14	1375	320	76	271
Liquid-supply system.....	J. B. G. Donato.....	570,844	Nov. 3	774	177	77	783
Liquid-testing device.....	J. C. Condé.....	569,783	Oct. 20	1887	448	77	383
Liquids and solids. Process of and apparatus for separating.....	M. H. Chamberlain.....	562,376	June 23	2309	561	75	1864
Liquids. Apparatus for drawing off.....	G. J. Porter.....	554,894	Feb. 18	1933	455	74	899
Liquids. Apparatus for purifying and decolorizing saccharine or other.....	M. Pridham.....	573,355	Dec. 15	2249	538	77	1741
Liquids. Apparatus for treating.....	A. Seigle.....	567,751	Sept. 15	1773	426	76	1640
Liquids. Automatic apparatus for elevating.....	B. Kerr.....	566,987	Sept. 1	451	104	76	1367
Liquids. Clarifying.....	W. M. Fowler.....	565,973	Aug. 18	1898	461	76	1009
Liquids. Device for applying.....	C. E. Kilmer and W. Randel.....	567,598	Sept. 15	1516	365	76	1589
Liquids. Device for controlling the flow of.....	W. A. Hull.....	556,983	Mar. 24	2668	626	74	1678
Liquids in tanks. Apparatus for circulating.....	O. Szontagh and A. F. Schneider.....	563,093	June 30	3597	862	75	2130
Liquids. Means for controlling flow of.....	G. C. McEwen.....	570,436	Oct. 27	3065	732	77	621
Liquids, &c. Means for lifting and transferring.....	A. G. Paul.....	563,878	July 14	1117	{ 263 264 }	76	224
Liquids. Method of and apparatus for elevating.....	M. Misic and W. Foster.....	555,785	Mar. 3	489	118	74	1218
Liquids. Process of and apparatus for extracting.....	R. S. Merrill.....	567,249	Sept. 8	892	213	76	1462
Liquids. Process of and apparatus for purifying, rectifying, and deodorizing alcoholic or other.....	M. Pridham.....	574,111	Dec. 29	3649	871	77	2034
Liquids. Purifying and decolorizing saccharine or other.....	M. Pridham.....	573,289	Dec. 15	2126	511	77	1719
Liquids. Purifying and decolorizing saccharine or other.....	M. Pridham.....	573,290	Dec. 15	2130	{ 511 512 }	77	1720
Liquors containing gas under pressure. Vessel for storing and transporting.....	L. Nathan.....	569,028	Oct. 6	536	123	77	102
Liquors. Manufacture of fermented.....	J. Schneible.....	571,693	Nov. 17	2218	534	77	1092
Liquors. Manufacturing fermented and distilled.....	A. Myers.....	553,998	Feb. 4	359		74	571
Liquors. Process of and apparatus for treating malt.....	A. E. Ferree.....	568,132	Sept. 22	2467	592	76	1781
Listing and computing machine.....	H. H. Johnson, C. O. White, and M. B. Lloyd.....	569,499	Oct. 13	1237	{ 315 316 317 }	77	268

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Lithographic stone. Factitious.....	J. H. Stevens.....	556,380	Mar. 17	1637	.....	74	1468
Load-dumping apparatus.....	T. Carroll.....	561,485	June 2	749	184	75	1512
Loader. Baggage.....	D. C. Conklin and J. Hughes.....	571,828	Nov. 24	2481	588	77	1161
Loader. Baggage.....	G. H. Wall.....	565,711	Aug. 11	1393	{ 339 340 }	76	896
Loading and weighing device. Cotton.....	H. E. Paolucci.....	559,617	Jan. 7	196	55	74	39
Loading machinery. Wagon.....	W. E. Ewbank.....	567,765	Sept. 15	1793	430	76	1643
Loading or unloading apparatus.....	F. McDonough.....	572,023	Nov. 24	2822	666	77	1226
Loading vessels. Portable device for.....	J. McMyler.....	568,869	Oct. 6	271	63	77	52
Lock:							
See Album-lock. Keyless lock.							
Bicycle-lock. Master-key pin-lock.							
Bicycle alarm-lock. Nut-lock.							
Book-lock. Nut and bolt lock.							
Car-lock. Padlock.							
Car-door lock. Permutation-lock.							
Coat-lock. Pin-lock.							
Cock-lock. Pipe-lock.							
Combination-lock. Rail-lock.							
Cylinder-lock. Railway-switch lock.							
Door-lock. Rim-lock.							
Door or sash lock. Safe-lock.							
Electric lock. Sash-lock.							
Elevator-car lock. Seal-lock.							
Elevator-shaft-door lock. Shutter-lock.							
Fence-lock. Stopper-lock.							
Fish-plate lock. Switch-lock.							
Gate-lock. Time-lock.							
Gravity-lock. Trunk-lock.							
Hasp-lock. Twine-lock.							
Indicator-lock. Wagon-seat lock.							
Indicator-lock. Window-lock.							
Lock.....	A. Alfors.....	554,566	Feb. 11	1344	314	74	771
Lock.....	J. Alfors.....	567,063	Sept. 1	577	135	76	1390
Lock.....	W. T. Bohannon.....	557,952	Apr. 7	760	181	75	143
Lock.....	E. H. Boneberg.....	559,991	May 12	1178	262	75	920
Lock.....	H. Bruns.....	567,290	Sept. 8	987	234	76	1478
Lock.....	F. H. Bullis.....	555,360	Feb. 25	2773	{ 649 650 }	74	1071
Lock.....	J. B. Bundren and L. P. Crosby.....	557,963	Apr. 7	783	186	75	147
Lock.....	F. and M. Clever.....	555,209	Feb. 25	2504	591	74	1021
Lock.....	L. Endres.....	562,515	June 23	2527	614	75	1906
Lock.....	W. F. Feistner.....	570,087	Oct. 27	2409	570	77	495
Lock.....	E. Gray.....	572,633	Dec. 8	959	232	77	1481
Lock.....	T. Hasshagen.....	562,077	June 16	1813	437	75	1755
Lock.....	C. W. Henson.....	556,629	Mar. 17	2073	445	74	1549
Lock.....	H. D. Hinckley.....	563,925	July 14	1206	283	76	240
Lock.....	J. T. Hoile.....	566,459	Aug. 11	918	218	76	806
Lock.....	W. A. Johnston.....	558,649	Apr. 21	1992	483	75	409
Lock.....	A. Josler.....	561,941	June 9	1566	380	75	1691
Lock.....	G. A. Le Fevre.....	558,084	Apr. 14	1036	253	75	212
Lock.....	P. J. Leonard and W. Head.....	574,250	Dec. 29	3950	939	77	2087
Lock.....	J. Luebbers.....	570,032	Oct. 27	2303	547	77	475
Lock.....	B. Moser.....	563,667	July 14	1096	258	76	221
Lock.....	L. Noe.....	556,765	Mar. 24	2308	543	74	1610
Lock.....	S. Piotrowski.....	567,687	Sept. 15	1663	400	76	1619
Lock.....	W. D. Roberts.....	568,701	Sept. 29	3482	833	76	1987
Lock.....	F. Soley.....	555,408	Feb. 25	2852	673	74	1086
Lock.....	W. E. Sparks.....	562,204	June 16	2018	487	75	1795
Lock.....	C. W. Squires.....	554,965	Feb. 18	2052	{ 486 487 }	74	921
Lock.....	C. W. Squires. (Reissue).....	11,564	Aug. 18	2398	{ 588 589 }	76	1105
Lock.....	S. Stiner.....	565,702	Aug. 11	1320	336	76	894
Lock.....	S. E. Swenson.....	574,179	Dec. 29	3903	908	77	2060
Lock.....	W. F. Troast.....	565,648	Aug. 11	1291	312	76	875
Lock.....	G. E. Tyson.....	557,731	Apr. 7	375	87	75	71
Lock.....	H. G. Voight.....	572,844	Dec. 8	1328	320	77	1551
Lock.....	G. White.....	558,243	Apr. 14	1300	317	75	263
Lock.....	L. O. Wilson.....	553,444	Jan. 21	1715	409	74	349
Lock.....	W. E. Wilton.....	553,090	Jan. 14	1104	268	74	221
Lock.....	J. F. Witt.....	559,960	May 12	1116	{ 249 250 }	75	905
Lock and latch.....	P. J. Conroy.....	564,915	July 28	2909	697	76	584
Lock-case.....	T. Donahue.....	552,868	Jan. 7	689	167	74	130
Lock controlling mechanism.....	R. A. Palmer.....	559,308	Apr. 28	3196	772	75	651
Lock for sliding closures.....	F. W. Mix.....	563,671	July 7	736	173	76	138
Lock frame or case.....	C. F. De Arden.....	557,772	Apr. 7	451	106	75	65
Lock-hub.....	W. H. Taylor.....	568,502	Sept. 29	3095	{ 745 746 }	76	1915
Lock-jaw wrench.....	E. L. Keith.....	567,945	Sept. 15	2099	506	76	1701
Lock-joint.....	H. F. Aschek.....	555,201	Feb. 25	2495	589	74	1019
Lock-knife.....	I. E. Hotchkiss.....	557,818	Apr. 7	526	126	75	99
Lock. Pneumatic balance.....	C. N. Dutton.....	557,566	Apr. 7	67	{ 17 18 19 }	75	14
Lock strike-plate.....	R. H. Bower.....	572,859	Dec. 8	1349	325	77	1555
Lock-tumbler.....	H. D. Hinckley.....	563,926	July 14	1211	283	76	241
Lock-wedge.....	W. W. Crawford.....	572,291	Dec. 1	360	86	77	1348
Lock with electric safety attachment.....	A. J. Moulart.....	569,882	Oct. 20	2038	485	77	411
Locks. Stop mechanism for time.....	W. H. Hollar and H. W. Pidgeon.....	571,319	Nov. 10	1595	378	77	964
Locking and unlocking device. Automatic.....	H. F. Crandall.....	566,844	Sept. 1	187	42, 43	76	1318
Locking device.....	I. B. Rapaport.....	563,882	July 14	1129	265	76	227
Locking mechanism for mob and burglar proof doors.....	O. J. Merritt.....	564,388	July 21	2025	475	76	404

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Locking-rack for hats, coats, umbrellas, &c.	L. H. Latimer	557,076	Mar. 24	2830	674	74	1711
Locker. Garment.	J. Peter	560,923	May 26	2912	668	75	1305
Locket or brooch.	W. C. Forehand	553,708	Jan. 28	2181	517	74	451
Locomotive.	C. A. Couch	562,583	June 23	2660	644	75	1931
Locomotive.	J. P. Serve	567,617	Sept. 15	1542	372	76	1594
Locomotive ash-pan.	J. B. Wood	569,905	Oct. 20	2081	495	77	420
Locomotive-bell ringer.	T. W. Heintzelman	552,760	Jan. 7	475	118	74	00
Locomotive blast-pipe.	J. Jones	560,504	May 19	2117	484	75	1140
Locomotive-boiler.	C. O. Heggem	571,118	Nov. 10	1265	293	77	901
Locomotive-boiler.	W. B. Warren	557,459	Mar. 31	3521	842	74	1860
Locomotive-boilers. Apparatus for heating up	J. T. Connor	553,449	Jan. 21	1792	410	74	350
Locomotive circulating exhaust attachment.	G. H. Perry and W. S. Hancock	561,429	June 2	656	161	75	1494
Locomotive. Combination.	J. Y. McConnell	561,022	May 26	3064	706	75	1334
Locomotive-crane.	O. Crosby	572,195	Dec. 1	174	42.43	77	1311
Locomotive cut-off.	J. H. Crutchfield	567,299	Sept. 8	1003	238	76	1480
Locomotive draft-regulating apparatus.	J. C. Canby	564,470	July 21	2156	504	76	428
Locomotive draft-regulator.	H. Degener and R. Deissler	570,983	Nov. 10	1011	235	77	855
Locomotive. Electric.	T. E. Adams	556,654	Mar. 17	2106	492	74	1555
Locomotive. Electric.	R. Eickemeyer	565,407	Aug. 4	823	195	76	769
Locomotive. Electric.	J. C. Henry. (Reissue)	11,542	May 26	3156	729	75	1351
Locomotive. Electric.	J. C. Henry. (Reissue)	11,543	May 26	3158	730	75	1352
Locomotive. Electric.	J. C. Henry	562,398	June 23	2336	570	75	1870
Locomotive. Electric.	W. P. Henszey	561,395	June 2	585	147	75	1482
Locomotive. Electric.	J. E. Lockwood	568,779	Oct. 6	119	28	77	24
Locomotive. Electric.	J. F. McLaughlin	570,945	Nov. 10	955	221	77	845
Locomotive. Electric.	J. F. McLaughlin	573,905	Dec. 29	3264	779	77	1964
Locomotive. Electric.	S. H. Short	567,662	Sept. 15	1626	392	76	1611
Locomotive. Electric.	I. E. Storey	562,502	June 23	2506	607	75	1902
Locomotive. Electric.	C. F. Uebelacker	554,353	Feb. 11	995	230	74	704
Locomotive. Electric rack.	D. L. Barnes	564,861	July 28	2834	677	76	569
Locomotive-engine.	I. T. Dyer	568,019	Sept. 22	2243	541	76	1741
Locomotive exhaust-pipe.	W. E. Borbridge	567,122	Sept. 8	697	161	76	1425
Locomotive fire-box.	F. D. Shepherd	552,671	Jan. 7	297	79.80	74	58
Locomotive fire-box and boiler.	T. Nesser	566,467	Aug. 25	2781	676	76	1193
Locomotive oil-burner.	W. Booth	554,435	Feb. 11	1138	265	74	732
Locomotive oil-burner.	W. Booth	554,436	Feb. 11	1139	266	74	733
Locomotive pilot-bar coupling.	W. P. Shelly	563,690	July 7	765	181	76	143
Locomotive-pilot coupling.	S. R. Heidelberg	553,340	Jan. 21	1549	370	74	317
Locomotive sand-injector.	H. Tirmann	557,725	Apr. 7	354	83	75	68
Locomotive sanding apparatus.	C. F. Gage	566,857	Sept. 1	204	47	76	1322
Locomotive signaling device. Automatic.	H. M. Baker	564,138	July 14	1588	372	76	313
Locomotive smoke-stack.	C. S. Burton	570,083	Oct. 27	2400	569	77	494
Locomotive. Steam.	W. P. Henszey	555,508	Mar. 3	40	10	74	1138
Locomotive. Submarine.	S. Lake	557,835	Apr. 7	556	134	75	105
Locomotive-tender.	W. F. Richards	559,496	May 5	255	59.60	75	731
Locomotive-tender coupling.	J. MacKenzie	569,218	Oct. 13	865	203	77	181
Locomotive-tenders with water. Apparatus for supplying.	P. Sattelkau and H. R. Winkelmann	557,613	Apr. 7	148	39	75	29
Locomotive track-sanding device.	H. Tirmann	554,747	Feb. 18	1666	393	74	848
Locomotive track-sanding device.	H. Tirmann	557,724	Apr. 7	353	82	75	67
Locomotive track-sanding device.	H. Tirmann	559,006	Apr. 28	2616	637	75	543
Locomotive track-sanding device.	H. Tirmann	559,007	Apr. 28	2617	637	75	543
Locomotive. Tramway.	R. Hardie	562,604	June 23	2702	653	75	1938
Locomotives. Method of and apparatus for kindling fires in.	C. T. Smith	556,167	Mar. 10	1219	285	74	1375
Locomotives or vehicles from leaving rails. Apparatus for preventing.	M. Belk	554,644	Feb. 18	1500	352	74	816
Locomotives. System of supplying water to.	A. L. Rich.	553,967	Feb. 4	300	66.67	74	559
Locomotives. System of supplying water to.	A. L. Rich.	560,822	May 26	2714	623	75	1268
Log-car attachment.	B. W. Johnson	554,342	Feb. 11	974	226	74	700
Log-carrier.	J. A. Carroll	572,742	Dec. 8	1163	279	77	1519
Log-loader.	W. A. Fletcher	565,857	Aug. 11	1666	408	76	947
Log loader and turner.	W. E. Hill	570,552	Nov. 3	214	56	77	677
Log loader and turner. Steam.	P. McNeerney	559,192	Apr. 28	2984	720	75	612
Log-loading attachment for skidways.	C. Bateman and W. H. Lyda	556,571	Mar. 17	1982	462	74	1532
Log-loading mechanism.	W. A. Fletcher	558,376	Apr. 14	1521	373	75	304
Log-skidding apparatus.	W. Baptist	561,855	June 9	1422	342	75	1663
Log-skidding device.	H. J. Kuriger	561,674	June 9	1086	261	75	1600
Log-turner.	D. J. Saltsman	571,801	Nov. 24	2433	580	77	1153
Logging-cars. Lock for standards or dog attachments of.	G. W. Warner	556,230	Mar. 10	1322	311	74	1394
Logging-jack.	J. E. Gilchrist	556,625	Mar. 17	2067	484	74	1548
Logging-machine. Steam.	G. T. Glover	554,260	Feb. 11	830	199	74	673
Loom.	G. E. Beaumont and J. P. Faults	561,933	June 9	1544	374	75	1687
Loom.	G. Borland and A. K. Sherwood	572,926	Dec. 8	1468	353	77	1580
Loom.	L. Brunette and A. P. Horne	574,187	Dec. 29	3819	912	77	2063
Loom.	R. Cuscaden and W. F. Poiesz	572,246	Dec. 1	265	64	77	1329
Loom.	E. S. and G. O. Draper	574,142	Dec. 29	3710	884	77	2044

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Loom	G. A. Draper	573,264	Dec. 15	2070	496	77	1708
Loom	W. F. Draper and J. H. Northrop	572,746	Dec. 8	1171	281	77	1520
Loom	I. Heer	571,192	Nov. 10	1381	322	77	924
Loom	B. Hilbert	561,110	June 2	56	15	75	1378
Loom	G. F. Hutchins	555,705	Mar. 3	374	87	74	1196
Loom	J. L. McKay	567,351	Sept. 8	1107	267	76	1499
Loom	J. T. Meats	553,036	Jan. 14	994	241	74	200
Loom	A. Monti	559,460	May 5	195	43	75	719
Loom	J. H. Northrop	553,814	Jan. 28	2356	561	74	484
Loom	J. H. Northrop	557,998	Apr. 7	862	217	75	162
Loom	J. H. Northrop	563,611	July 7	635	148	76	119
Loom	J. H. Northrop	568,455	Sept. 29	3012	724	76	1900
Loom	E. von Oberleithner	571,236	Nov. 10	1455	341	77	937
Loom	E. Poehnert	571,956	Nov. 24	2719	643	77	1207
Loom	J. Poyser	568,275	Sept. 22	2710	{ 649 650 }	76	1828
Loom	C. Seybold	570,234	Oct. 27	2669	635	77	544
Loom	O. Smith	569,805	Oct. 20	1920	456	77	390
Loom	G. W. Stafford	562,344	June 16	2258	{ 547 548 549 }	75	1839
Loom	W. Weaver	561,841	June 9	1403	{ 336 337 }	75	1659
Loom	H. Wyman	561,466	June 2	722	178	75	1506
Loom-batten	J. Poyser	566,222	Aug. 18	2301	563	76	1087
Loom beam clamp or lock	J. H. Northrop	563,610	July 7	634	148	76	119
Loom. Box	A. Faber du Faur and A. Gartner	572,251	Dec. 1	274	66, 67	77	1331
Loom. Carpet	W. F. McCready	553,253	Jan. 21	1391	339	74	290
Loom clutch-operating mechanism	H. Wyman	565,656	Aug. 11	1304	315	76	878
Loom-dobby	A. Scheid	554,314	Feb. 11	926	213	74	692
Loom for weaving pile fabrics	C. Coupland and F. Pearson	569,814	Oct. 20	1934	460	77	392
Loom for weaving tufted fabrics	H. Wyman and J. A. Clark	566,957	Sept. 1	378	88	76	1354
Loom. Handl.	W. Harvey	568,138	Sept. 22	2478	{ 595 596 }	76	1784
Loom-harness for weaving leno goods	J. Hampson	572,007	Nov. 24	2800	660	77	1222
Loom harness-frame	H. W. Hakes	570,926	Nov. 10	921	214	77	839
Loom harness-leveling device	T. Birchall	562,350	June 16	2267	550	75	1841
Loom harness-motion	J. T. Bolton	556,455	Mar. 17	1780	{ 412 413 }	74	1495
Loom harness operating mechanism	C. F. Perham	562,655	June 23	2775	674	75	1951
Loom-heddle	G. O. Draper	569,149	Oct. 6	746	174	77	141
Loom-heddle for cross-weaving	H. Thiele	554,245	Feb. 18	1841	433	74	883
Loom heddle-motion	R. B. Goodyear	559,278	Apr. 28	3150	{ 761 762 }	75	642
Loom Jacquard mechanism	W. G. Connell	567,453	Sept. 8	1274	308	76	1529
Loom Jacquard mechanism	E. W. France and J. Buckler	570,703	Nov. 3	532	123	77	737
Loom Jacquard mechanism	G. Reuter	561,130	June 2	92	26	75	1385
Loom Jacquard mechanism	O. W. Schaum	563,313	July 7	137	32	76	29
Loom. Lappet	J. T. Bolton	561,646	June 9	1039	250	75	1591
Loom. Lappet	J. T. Bolton	561,647	June 9	1041	251	75	1592
Loom. Lappet	J. T. Bolton	561,648	June 9	1043	{ 251 252 253 }	75	1592
Loom. Lappet	J. T. Bolton	561,649	June 9	1044	253	75	1592
Loom. Lappet	J. Galloway	570,791	Nov. 3	674	155	77	762
Loom. Lappet	J. R. MacColl	570,259	Oct. 27	2717	{ 646 647 648 }	77	554
Loom. Lappet	J. R. MacColl	570,260	Oct. 27	2720	{ 647 648 649 }	77	554
Loom. Lappet	D. Scott	567,923	Sept. 15	2044	490	76	1692
Loom. Lappet	L. Veyron	566,551	Aug. 25	2906	709	76	1217
Loom let-off and take-up mechanism	C. H. Heindel	574,326	Dec. 29	4071	967	77	2110
Loom let-off mechanism	N. T. Folsom	558,274	Apr. 14	1354	330	75	273
Loom let-off mechanism	N. T. Folsom	562,598	June 23	2692	651	75	1936
Loom let-off mechanism	A. A. Forbes	569,865	Oct. 20	2015	480	77	407
Loom let-off mechanism	I. E. Palmer	573,160	Dec. 15	1884	454	77	1675
Loom let-off. Narrow-ware	S. Waite	562,989	June 30	3405	818	75	2094
Loom lug-strap	C. P. Livsey	574,204	Dec. 29	3859	920	77	2070
Loom-multiplier	A. Faber du Faur	572,250	Dec. 1	271	66	77	1330
Loom. Needle	G. H. Cummings	558,721	Apr. 21	2122	{ 511 512 }	75	432
Loom. Needle	J. E. Martin	573,827	Dec. 22	3126	745	77	1924
Loom pattern-chain	W. A. and D. Crabtree	568,162	Sept. 22	2516	606	76	1791
Loom pattern-chain support	W. J. Lutton	573,279	Dec. 15	2100	505	77	1715
Loom pattern mechanism	J. F. Wicks and B. S. Roy	557,295	Mar. 31	3242	777	74	1805
Loom picker-check	J. T. Doyle	553,516	Jan. 28	1847	438	74	389
Loom picker mechanism	J. H. Paige	571,729	Nov. 17	2287	548	77	1106
Loom picker-motion	L. C. Werner	552,562	Jan. 7	102	29	74	21
Loom picker-operating mechanism	C. F. Perham	562,654	June 23	2773	673	75	1951
Loom picker-staff strap	J. F. and C. G. Warren	572,140	Dec. 1	84	18	77	1294
Loom picker-staffs. Device for securing pickers to	W. B. Moody	561,269	June 2	331	83	75	1433
Loom picker-stick check	W. E. Sartwell	563,067	June 30	3526	847	75	2117
Loom picker-sticks. Rocker and shoe connection for	A. Barselou	570,364	Oct. 27	2938	{ 697 698 }	77	593
Loom picker-strap dog	P. Ashby	569,570	Oct. 13	1480	348	77	295
Loom-pitman	R. H. Livesey and W. Squire	561,234	June 2	274	68	75	1420
Loom-reed	J. Adamson	571,182	Nov. 10	1365	318	77	920
Loom-reed	J. A. Clark	562,757	June 23	2958	716	75	1988
Loom-reed	J. A. and C. Clark	570,381	Oct. 27	2970	704	77	599
Loom-reed	C. Mahler	561,333	June 2	478	121	75	1462
Loom relief-motion	L. C. Werner	552,563	Jan. 7	103	29, 30	74	21
Loom reversing mechanism	G. F. Hutchins	560,036	May 12	1265	{ 284 285 }	75	935
Loom shedding mechanism	W. Evans	554,442	Feb. 11	1149	268	74	734

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Loom shedding mechanism.....	A. Lockwood.....	554,886	Feb. 18	1919	{ 451 452 }	74	896
Loom shedding mechanism.....	J. M. Marco.....	561,266	June 2	324	81	75	1432
Loom shedding mechanism.....	O. W. Schaum.....	562,557	June 23	2603	632	75	1918
Loom shedding mechanism.....	A. Snoeck.....	558,221	Apr. 14	1260	{ 307 308 }	75	256
Loom shedding mechanism.....	A. Snoeck.....	558,222	Apr. 14	1266	309	75	256
Loom shedding mechanism.....	J. F. Wicks and B. S. Roy.....	563,346	July 7	199	44	76	40
Loom shedding mechanism.....	J. Wild.....	560,578	May 19	2243	514	75	1163
Loom shedding-motion.....	G. Oldham.....	572,711	Dec. 8	1102	267	77	1507
Loom-shuttle.....	J. Allen.....	558,753	Apr. 21	2176	524	75	442
Loom-shuttle.....	H. Cruse.....	553,302	Jan. 21	1486	357	74	306
Loom-shuttle.....	J. B. Daudelin.....	563,455	July 7	369	85	76	71
Loom-shuttle.....	G. O. Draper.....	568,718	Sept. 29	3509	841	76	1993
Loom-shuttle.....	A. Isherwood.....	561,319	June 2	449	111	75	1457
Loom-shuttle.....	A. Isherwood.....	563,179	June 30	3734	894	75	2156
Loom-shuttle.....	T. Morrison.....	569,721	Oct. 20	1779	423	77	365
Loom-shuttle.....	W. Sargentson and J. Gilbert.....	558,570	Apr. 21	1864	452	75	385
Loom-shuttle.....	E. S. Stimpson.....	556,705	Mar. 17	2180	509	74	1570
Loom-shuttle.....	W. Todd.....	568,929	Oct. 6	358	82	77	69
Loom shuttle-actuating mechanism.....	A. and S. Widmer.....	562,685	June 23	2824	685	75	1961
Loom shuttle-actuating mechanism.....	J. F. Wicks and B. S. Roy.....	563,345	July 7	197	44	76	40
Loom shuttle-box mechanism.....	H. Wyman.....	561,467	June 2	725	178	75	1506
Loom shuttle-box motion.....	O. W. Schaum.....	573,488	Dec. 22	2519	597	77	1808
Loom shuttle-box-operating mechanism.....	J. Cowburn and C. Peck.....	563,020	June 30	3449	{ 829 830 }	75	2103
Loom shuttle-box-operating mechanism.....	A. Gartner.....	556,968	Mar. 24	2643	{ 621 622 }	74	1673
Loom shuttle-box-operating mechanism.....	R. B. Goodyear.....	564,374	July 21	1996	469	76	398
Loom shuttle-box-operating mechanism.....	A. Lockwood.....	573,276	Dec. 15	2090	{ 502 503 }	77	1713
Loom shuttle-box-operating mechanism.....	A. Scheid.....	552,720	Jan. 7	386	{ 101 102 }	74	75
Loom shuttle-changing mechanism.....	E. H. Ryon.....	557,519	Mar. 31	3636	872	74	1881
Loom shuttle checking and releasing mechanism.....	C. F. Pertham.....	562,653	June 23	2771	673	75	1951
Loom-shuttle. Self-threading.....	W. F. Draper and J. H. Northrop.....	569,662	Oct. 20	2011	470	77	407
Loom-shuttle. Self-threading.....	J. H. Northrop.....	568,206	Sept. 22	2590	624	76	1805
Loom-shuttle. Self-threading.....	J. H. Northrop.....	568,207	Sept. 22	2592	624	76	1805
Loom-shuttle. Self-threading.....	J. H. Northrop.....	568,319	Sept. 22	2780	668	76	1842
Loom-shuttle. Self-threading.....	C. E. Nutting.....	560,746	May 26	2582	595	75	1242
Loom-shuttle. Self-threading.....	P. J. O'Connell.....	559,306	Apr. 28	3193	772	75	650
Loom-shuttle tension device.....	S. M. Hamblin and E. S. Damon.....	556,970	Mar. 24	2649	622	74	1075
Loom-shuttle tension device.....	T. Howard and J. R. Fitton.....	560,181	May 12	1534	347	75	985
Loom-shuttle tension device.....	W. F. Kintzing.....	566,689	Aug. 25	3107	759	76	1255
Loom-shuttle tension device.....	G. C. Koester.....	558,083	Apr. 14	1085	252	75	212
Loom shuttle-worker.....	L. K. Heathcote.....	560,992	May 26	3016	695	75	1325
Loom. Small-ware.....	S. Barnwell.....	556,241	Mar. 10	1349	{ 317 318 }	74	1398
Loom stopping mechanism.....	F. M. J. Grenier.....	573,648	Dec. 22	2823	667	77	1868
Loom. Swivel.....	H. Willmunder.....	570,359	Oct. 27	2931	696	77	592
Loom take-up and drop-box governing mechanism.....	T. A. Brady.....	559,768	May 5	721	171	75	818
Loom-temple.....	M. J. Armistead.....	564,136	July 14	1586	372	76	313
Loom-temple.....	W. B. Fittz.....	560,701	May 26	2513	577	75	1229
Loom-temple.....	L. Painchaud.....	571,886	Nov. 24	2590	614	77	1182
Loom-temple.....	E. S. and W. I. Stimpson.....	564,166	July 14	1653	386	76	323
Loom-temple.....	W. I. Stimpson.....	573,308	Dec. 15	2175	519	77	1727
Loom-temple.....	W. I. and E. S. Stimpson.....	553,216	Jan. 14	1322	321	74	262
Loom thread-parter.....	J. H. Northrop.....	556,688	Mar. 17	2159	505	74	1566
Loom thread-parter.....	J. H. Northrop.....	560,745	May 26	2581	595	75	1242
Loom warp stop-motion.....	J. H. Northrop.....	554,605	Feb. 11	1422	333	74	786
Loom warp stop-motion.....	O. Smith.....	557,906	Apr. 7	667	160	75	126
Loom warp stop-motion.....	J. Vickerman.....	572,918	Dec. 8	1447	{ 348 349 }	77	1576
Loom. Weaving.....	G. and H. Bauche and J. Tantine.....	553,149	Jan. 14	1196	{ 291 292 }	74	240
Loom weft-stopping mechanism.....	J. Poyser.....	570,815	Nov. 3	716	{ 162 163 }	77	771
Looms. Change-box mechanism for power.....	E. Claviez.....	572,245	Dec. 1	262	63, 64	77	1328
Looms. Electrically-operated Jacquard mechanism for.....	E. Gates.....	565,447	Aug. 11	892	{ 211 212 }	76	802
Looms. Electrically-operated reed for.....	E. Gates.....	565,448	Aug. 11	895	{ 212 213 }	76	802
Looms. Electrically-operated shedding mechanism for.....	E. Gates.....	565,446	Aug. 11	889	{ 210 211 }	76	801
Looms. Electromagnetic warp stop-motion for.....	A. C. Shuttleworth.....	570,738	Nov. 3	594	136	77	747
Looms. Magnetic shuttle-motion for.....	E. Gates.....	565,449	Aug. 11	898	{ 213 214 }	76	803
Looms. Selvage-producing device for.....	W. Simpson.....	573,715	Dec. 22	2936	694	77	1888
Loop forming and pressing machine.....	A. L. Sweet.....	571,290	Nov. 10	1545	{ 366 367 }	77	954
Loop-making machine.....	F. Roux.....	556,318	Mar. 10	1519	353	74	1430
Lounge.....	M. H. McCune.....	558,830	Apr. 21	2306	560	75	466
Lounge.....	E. E. Ruefer.....	571,247	Nov. 10	1474	{ 345 346 }	77	940
Lounge, &c. Convertible.....	R. C. Balke.....	559,927	May 12	1066	237	75	696
Lounge or settee. Multifarm.....	E. Harry.....	570,207	Oct. 27	2617	622	77	535
Low-water alarm.....	O. J. Backus.....	553,636	Jan. 28	2056	426	74	428
Low-water alarm.....	J. W. Eberman.....	574,143	Dec. 29	3711	884	77	2045
Lubricant.....	C. Efron.....	562,291	June 16	2156	...	75	1820
Lubricant-cup.....	J. H. Shepherd.....	554,092	Feb. 4	529	118	74	601
Lubricants. Machine for testing.....	R. C. Carpenter.....	567,378	Sept. 8	1153	276	76	1506
Lubricants. Machine for testing.....	R. C. Carpenter.....	569,407	Oct. 13	1195	282	77	213
Lubricating device.....	E. D. Tucker.....	569,847	Oct. 20	1989	474	77	402

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Lubricating journal-bearings. Means for..... Lubricator: See Axle-lubricator. Bicycle-lubricator. Axle-box lubricator. Car-lubricator.	W. A. Mack.....	555,176	Feb. 25	2444	579	74	1010
Lubricator.....	A. T. Ballantine.....	554,105	Feb. 4	561	125	74	607
Lubricator.....	H. G. Brown.....	554,439	Feb. 11	1145	267	74	734
Lubricator.....	M. Butler.....	564,503	July 21	2202	516 517	76	436
Lubricator.....	F. Caum.....	564,970	Aug. 4	19	4	76	620
Lubricator.....	P. T. Coffield.....	571,555	Nov. 17	2000	475	77	1052
Lubricator.....	H. W. Enggren.....	564,307	July 21	1881	442	76	378
Lubricator.....	W. J. Ferguson.....	563,224	June 30	3821	915	75	2172
Lubricator.....	W. J. Ferguson.....	574,352	Dec. 29	4121	978	77	2120
Lubricator.....	W. F. Gregory.....	570,549	Nov. 3	210	55	77	676
Lubricator.....	W. Grimes and C. C. Wakefield.....	558,488	Apr. 21	1733	419 420	75	361
Lubricator.....	A. L. Hochholzer, R. B. Hill, and J. D. Riggs.....	573,657	Dec. 22	2845	671	77	1871
Lubricator.....	A. D. Homard.....	568,616	Sept. 29	3328	797	76	1958
Lubricator.....	E. Huber.....	553,853	Feb. 4	73	15	74	518
Lubricator.....	E. Jacobi.....	555,246	Feb. 25	2567	603	74	1032
Lubricator.....	F. C. Karl.....	561,323	June 2	457	112	75	1458
Lubricator.....	F. Kaufhold.....	569,717	Oct. 20	1773	421	77	363
Lubricator.....	J. J. Kennedy.....	560,723	May 26	2548	56	75	1235
Lubricator.....	G. Klug.....	574,066	Dec. 29	3570	852 853	77	2020
Lubricator.....	N. Leidgen.....	562,332	June 16	2224	541	75	1833
Lubricator.....	J. F. Lewis.....	568,407	Sept. 29	2930	705	76	1884
Lubricator.....	F. Loos.....	570,706	Nov. 3	536	124	77	738
Lubricator.....	J. McGinley.....	570,605	Nov. 3	318	79	77	697
Lubricator.....	W. McIntosh.....	566,788	Sept. 1	88	22	76	1297
Lubricator.....	L. Mertens and C. F. Bostwick.....	570,556	Nov. 3	233	58, 59	77	681
Lubricator.....	G. B. Miller.....	567,788	Sept. 15	1829	439	76	1650
Lubricator.....	F. A. Mitchell.....	552,851	Jan. 7	653	160	74	123
Lubricator.....	E. S. Moore.....	560,595	May 19	2270	519 520	75	1168
Lubricator.....	C. W. Nash.....	566,609	Aug. 25	2984	728	76	1232
Lubricator.....	L. Parker.....	562,740	June 23	2925	710	75	1980
Lubricator.....	J. Petrus, F. Koszl, and W. Hegen- scheidt.....	562,835	June 30	3115	754	75	2034
Lubricator.....	W. A. Seibel.....	566,805	Sept. 1	115	28	76	1303
Lubricator.....	J. M. Shartle.....	558,528	Apr. 21	1797	436	75	373
Lubricator.....	C. I. Thompson.....	556,786	Mar. 24	2345	552	74	1617
Lubricator.....	J. I. Taconycroft.....	554,801	Feb. 18	1757	413 414	74	866
Lubricator.....	H. P. Tippet.....	556,074	Mar. 10	1049	249 250	74	1343
Lubricator.....	W. F. Van Guysling.....	554,429	Feb. 11	1129	264	74	730
Lubricator.....	J. Wilson.....	562,876	June 30	3193	772	75	2049
Lubricator-filler.....	C. H. Clark.....	555,926	Mar. 10	754	182	74	1290
Lubricator sight-feed.....	F. M. Ashley.....	570,080	Oct. 27	2396	508	77	493
Luggage-carrier.....	H. C. Phillips.....	565,563	Aug. 11	1131	273	76	845
Lumber-drier.....	G. E. Hoag.....	554,271	Feb. 11	850	194	74	677
Lumber-drier.....	H. J. Morton.....	572,210	Dec. 1	204	50	77	1317
Lumber-drier.....	L. A. Parisier.....	564,639	July 28	2458	578	76	501
Lumber-loading apparatus.....	H. G. Wadley.....	561,631	June 9	1019	245	75	1588
Lumber-piler.....	H. Daniels.....	570,869	Nov. 3	819	190 191	77	791
Lumber-piles. Roof or cover fastening device for.....	D. L. Zach.....	558,139	Apr. 14	1121	273 274	75	929
Lumber-piling machine.....	H. Daniels.....	570,868	Nov. 3	816	189 190	77	790
Lumber piling or stacking apparatus.....	A. Stendahl.....	563,626	July 7	656	153	76	123
Lumber roller-bed and measurer.....	B. S. Snell.....	552,788	Jan. 7	531	130 131	74	100
Lumber-sorter.....	E. C. Seebohm.....	574,047	Dec. 29	3536	844	77	2013
Lunch-box. Collapsible.....	G. W. Weber.....	566,042	Aug. 18	2001	485	76	1031
Lunch companion.....	J. Guminski.....	557,668	Apr. 7	264	64	75	50
Luting or cement.....	W. S. Welch.....	563,826	July 14	1005	.....	76	204
Machine-brake.....	A. Box.....	568,233	Sept. 22	2639	633	76	1814
Machines. Automatic stop for.....	F. Zielke.....	567,435	Sept. 8	1244	300	76	1524
Machinery cooling mechanism.....	M. M. Suppes.....	566,633	Aug. 25	3015	736 737	76	1239
Magnesium, calcium, and carbid. Compound of.....	C. Whitehead.....	555,796	Mar. 3	514	125	74	1223
Magnet coils. Support for field.....	B. G. Lamme.....	556,891	Mar. 24	2524	594	74	1651
Magnet. Electromotor.....	C. Partington.....	574,215	Dec. 29	3886	925	77	2075
Magnet pole. Field.....	J. J. Wood.....	571,181	Nov. 10	1363	318	77	920
Magnet poles. Attaching field.....	F. O. Blackwell.....	573,130	Dec. 15	1839	443	77	1667
Magnet poles. Securing field.....	H. G. Reist.....	573,107	Dec. 15	1794	432	77	1659
Magnet structure. Field.....	D. P. Thomson and H. Geisenhöner.....	571,462	Nov. 17	1829	436	77	1022
Magnets. Aging permanent.....	F. P. Cox.....	558,045	Apr. 14	970	237	75	200
Magnetic extracting and separating machine.....	F. J. Barnard, J. C. Moore, and J. D. Atkinson.....	553,446	Jan. 21	1717	409	74	350
Magnetic from non-magnetic substances. Mechan- ism for separating.....	C. J. Reed.....	572,370	Dec. 1	505	119	77	1374
Magnetic separation. Method of and apparatus for.....	J. P. Wetherill.....	555,792	Mar. 3	502	122 123	74	1221
Magnetic separation. Process of and machine for.....	R. H. Sanders and C. T. Thompson.....	573,485	Dec. 22	2512	595 596	77	1807
Magnetic separator.....	F. J. Barnard.....	560,184	May 19	1547	350	75	1040
Magnetic separator.....	R. Eickemeyer.....	567,581	Sept. 8	1160	278	76	1508
Magnetic separator.....	R. Eickemeyer.....	567,382	Sept. 8	1163	278	76	1508
Magnetic separator.....	J. B. Hamilton.....	571,362	Nov. 17	1664	394 395	77	992

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Magnetic separator	J. B. Hamilton	572,162	Dec. 1	120	28, 29	77	1300
Magnetic separator	J. P. Wetherill	555,794	Mar. 3	511	{ 123 124 }	74	1223
Magneto-generator	J. C. Francis	571,305	Nov. 10	1571	373	77	961
Mail and parcel holder	W. B. Abrams	568,469	Sept. 29	3034	738	76	1904
Mail, &c. Apparatus for collecting	H. W. Libbey	567,718	Sept. 15	1714	{ 411 412 }	76	1628
Mail-bag	F. L. Boynton	570,899	Nov. 10	877	204	77	830
Mail-bag	A. Johnston	574,064	Dec. 29	3567	852	77	2019
Mail-bag catcher	E. A. Foster	570,468	Nov. 3	49	12	77	648
Mail-bag catcher	W. T. Stuart	564,120	July 14	1564	367	76	308
Mail-bag catcher and crane	S. S. Andrews	559,317	Apr. 28	3210	775	75	653
Mail-bag crane	J. L. Sullivan	572,916	Dec. 8	1444	347	77	1575
Mail-bag fastener	M. S. Cody	573,074	Dec. 15	1736	416	77	1648
Mail-bag fastener	T. G. Cunningham	574,138	Dec. 29	3704	883	77	2043
Mail-bag fastener	H. T. J. Gilbert	557,663	Apr. 7	259	62	75	49
Mail-bag fastener	F. Langlotz	572,763	Dec. 8	1118	289	77	1524
Mail-bag locking device	A. Loyd and J. H. Forrester	565,550	Aug. 11	1111	268	76	841
Mail-box	A. D. Harrison and C. O. Lucas	555,948	Mar. 10	798	192	74	1298
Mail-box	H. J. Richner and J. L. Fontaine	570,270	Oct. 27	2741	652	77	558
Mail-collecting pouch	D. di B. Savorgnan	567,920	Sept. 15	2040	489	76	1692
Mail-collector. Pneumatic	H. Fleckl	559,693	May 5	578	137	75	792
Mail-crane	J. H. Barr	556,242	Mar. 10	1351	{ 318 319 }	74	1398
Mail-crane	E. A. Foster	567,068	Sept. 1	631	146	76	1402
Mail-crane	A. Montzheimer	568,955	Oct. 6	408	92	77	78
Mail-crane	E. L. Peirce	552,773	Jan. 7	496	122	74	93
Mail-crane and hanger	J. H. Barr and J. W. Naylor	564,140	July 14	1592	373	76	314
Mail-delivery for buildings	L. J. Pechner	553,133	Jan. 14	1171	285	74	235
Mail-discharging apparatus	H. L. Hewitt	552,577	Jan. 7	126	35	74	26
Mail-marking machine	G. E. Barnard	569,780	Oct. 20	1881	447	77	332
Mail-marking machine	J. S. Hansen	572,085	Nov. 24	2964	{ 697 698 }	77	1252
Mail-marking machine	J. S. Hansen	573,652	Dec. 22	2-31	669	77	1869
Mail-marking machine	J. S. Hansen	573,653	Dec. 22	2-33	669	77	1869
Mail-matter. Apparatus for and method of collecting and delivering	D. di B. Savorgnan	561,819	June 9	1357	{ 324 325 326 }	75	1650
Mail-matter-marking machine	E. M. Vail and G. Potter	560,446	May 19	2027	463	75	1124
Mail-packages. Device for tying	C. A. Burr and H. P. Ewell	561,256	June 2	300	76	75	1426
Mail-pouch	J. E. Quinn	561,127	June 2	85	24	75	1394
Mail pouch or bag	E. H. Middaugh	558,826	Apr. 21	2298	{ 558 559 }	75	465
Mail receiver and deliverer for cars	P. M. Andriot and R. E. McClanahan	557,322	Mar. 31	3288	789	74	1815
Mail receiver and delivering apparatus	W. Z. Runkle	572,315	Dec. 1	408	97, 98	77	1356
Mail receiving and collecting box	D. di B. Savorgnan	564,109	July 14	1542	{ 362 363 }	76	303
Mail-sack catching and delivering mechanism	M. D. Cummings	568,747	Oct. 6	54	13, 14	77	14
Mailing-box	W. L. Bond	561,535	June 2	851	205	75	1530
Mailing-case	A. E. Hernandez	562,896	June 30	3228	780	75	2056
Mailing-machine	R. and J. F. Helm and J. R. Rowlands	556,747	Mar. 24	2263	{ 529 530 531 }	74	1602
Mailing-machine	M. R. McCauley	559,882	May 12	940	210	75	873
Mailing or similar receptacle	D. J. McKenzie and W. Martin	560,227	May 19	1629	371	75	1051
Malt-drier	L. A. Henze	554,509	Feb. 11	1261	235	74	754
Malt-kiln. Oil-burning	F. Rademacher	561,518	June 2	809	{ 197 198 }	75	1523
Malted foods	C. Rach	573,236	Dec. 15	2024	...	77	1701
Malting apparatus	A. Deininger	567,124	Sept. 8	699	162	76	1426
Malting apparatus	H. Stier	572,665	Dec. 8	1012	245	77	1491
Mandolin	E. P. Hall	567,028	Sept. 1	517	122	76	1380
Mandolin	N. Merrill	559,301	Apr. 28	3186	770	75	649
Mandolin	B. N. Rethely	573,357	Dec. 15	2256	539	77	1743
Mandolin-bridge	G. B. Maldura	554,828	Feb. 18	1812	425	74	878
Mandolin-pick holder	F. Wahl	557,293	Mar. 31	3239	777	74	1805
Mandrel. Curved sectional	T. Connors	553,608	Jan. 28	2015	477	74	421
Mandrel. Expansible	H. W. Rose	567,658	Sept. 15	1621	390	76	1610
Mangle	A. M. Dolph, J. H. Slack, and W. A. Saunders	554,584	Feb. 11	1383	{ 325 326 }	74	779
Mangle	J. A. Jackson and G. S. White	570,404	Oct. 27	3021	716	77	609
Mangle	C. S. Paul	572,614	Dec. 8	928	225	77	1474
Manhole	T. L. McGregor	556,474	Mar. 17	1810	420	74	1501
Manholes in boilers, &c. Machine for flanging	C. P. Higgins	558,072	Apr. 14	1020	249	75	209
Manicure implement	W. Carrick	562,575	June 23	2647	641	75	1928
Manicure implement	R. E. Hart	568,249	Sept. 22	2666	638	76	1819
Manicure-table	A. Rosenberg	557,234	Mar. 31	3134	{ 751 752 }	74	1785
Manual motor	J. Steffenson	571,545	Nov. 17	1983	472	77	1049
Manuscript-holder	W. L. Salvage	567,660	Sept. 15	1623	391	76	1611
Manuscript or printed notes. Cover for	W. T. Sadlier	559,219	Apr. 28	3061	739	75	626
Map-support	J. P. Jungels	572,547	Dec. 8	801	{ 191 192 }	77	1446
Marble. Enameling	E. J. Fischer	552,993	Jan. 14	933	...	74	189
Marble, &c. Machine for cutting and carving	A. Zanardo	554,852	Feb. 18	1855	{ 436 437 }	74	885
Marble-shooting device	C. B. Landes	574,098	Dec. 29	3631	867	77	2031
Marine boiler	R. R. and H. L. Zell	553,700	Jan. 28	2168	{ 512 513 }	74	448
Marker. Land-	W. B. Huff	568,534	Sept. 29	3173	764	76	1928
Marking instrument	W. J. Bell	566,558	Aug. 25	2915	711	76	1219
Marlinespike	C. H. Fulson and J. M. Doyle	563,155	June 30	3698	885	75	2149
Mash apparatus. Fore-	O. Meinshausen	563,978	July 14	1303	304	76	257
Mashing and meat-tendering machine	D. Laplatze	558,396	Apr. 14	1557	380	75	310

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Mask. Base-ball	W. Gray	571,437	Nov. 17	1791	427	77	1015
Mason's jointer	D. O'Brien	565,784	Aug. 11	1529	372	76	920
Massage apparatus	J. T. Lindahl	565,475	Aug. 11	950	225 226	76	814
Massage apparatus. Electric	G. Rossbach	564,258	July 21	1798	421	76	364
Master-key pin-lock	W. F. Donovan	567,305	Sept. 8	1020	244	76	1483
Master-key pin-lock	H. B. Sargent	564,029	July 14	1388	323	76	273
Master-key pin-lock	H. B. Sargent and A. A. Page	561,343	June 2	500	125	75	1466
Master-key pin-lock	H. R. Stadtmuller	564,803	July 28	2736	651	76	551
Mat: See Electric mat. Wire mat.							
Match	H. L. Buxton	554,651	Feb. 18	1513	355	74	818
Match	R. F. Cooke	563,746	July 14	865	206	76	178
Match	J. W. Denmead	571,154	Nov. 10	1327	309	77	913
Match	C. R. A. G. Schwiening	562,426	June 23	2385		75	1879
Match-box	C. L. Higgins	553,030	Jan. 14	985	239	74	198
Match-box. Automatic lighting and ejecting	J. A. Trendel	561,361	June 2	527	133	75	1471
Match-box-filling machine	A. Schuster	568,801	Oct. 6	153	36	77	31
Match box or safe	J. C. Finch	564,188	July 21	1691	395	76	344
Match-box-sanding machine	A. Anderson	570,244	Oct. 27	2691	639	77	548
Match-box shucks. Machine for making and sand- ing	H. W. Whelan	571,180	Nov. 10	1360	317 318 443 444 445 446	77	920
Match-boxing machine	E. M. Lockwood and W. M. Patterson	564,310	July 21	1884	445 446	76	378
Match-cards. Machine for forming	C. F. Scamman	560,939	May 26	2943	675	75	1311
Match-delivering and cigar-cutting apparatus	O. Anderson	569,482	Oct. 13	1303	307	77	262
Match-igniter	H. O. Clausen	560,891	May 26	2863	656	75	1295
Match-igniting and cigar-cutting device	M. Fischer	572,942	Dec. 8	1497	358 359	77	1585
Match-lighting attachment for lanterns, &c.	F. Hill	564,997	Aug. 4	66	15 727 728 729 730	76	630
Match-machine	W. W. Abbott	573,802	Dec. 22	3068	727 728 729 730	77	1914
Match-machine	B. T. Steber	559,759	May 5	708	168	75	815
Match-machine	E. J. Young	553,888	Feb. 4	145	29, 30	74	533
Match-making machine	E. B. Beecher and J. P. Wright	557,946	Apr. 7	738	177 178 179 180	75	139
Match-making machine	J. C. Donnelly	553,609	Jan. 28	2017	477 322 323	74	421
Match-making machine	J. C. Donnelly	565,674	Aug. 11	1332	324 325 326 70	76	884
Match-making machine	G. M. Hathaway	559,525	May 5	298	71 72 73	75	740
Match-making machine	J. M. Van Doren	567,927	Sept. 15	2052	492 493 40 41 42 43 44 45	76	1694
Match-making machine	W. H. Wyman	570,529	Nov. 3	164	42 43 44 45	77	668
Match-pouch	T. B. Ackers	571,737	Nov. 24	2321	555	77	1131
Match-receptacle	W. C. Bower	561,961	June 16	1603	389	75	1718
Match-receptacle	W. C. Schaper	573,422	Dec. 15	2375	567	77	1764
Match-receptacle or holder	O. F. Brinkman	570,891	Nov. 3	864	201	77	802
Match-safe	F. Aleith	567,369	Sept. 8	1141	274	76	1504
Match-safe	S. E. Ball and E. E. Bowen	553,502	Jan. 28	1820	432	74	385
Match-safe	P. and G. Blechschmidt	572,100	Dec. 1	10	3	77	1280
Match-safe	J. W. Hart, L. Griffith, and M. Goodwin	572,541	Dec. 8	789	189	77	1443
Match-safe	O. H. Huebel and F. W. Manger	571,121	Nov. 10	1274	295	77	903
Match-safe	H. F. Militzer	553,250	Jan. 21	1385	338	74	288
Match-safe	D. C. Pullins and C. S. Wyatt	568,276	Sept. 22	2711	650	76	1828
Match-safe	F. H. and W. A. Romans and S. W. Harman	557,233	Mar. 31	3132	751	74	1785
Match-safe	M. C. Russell	573,358	Dec. 15	2257	539	77	1743
Match-safe	W. C. Schaper	554,736	Feb. 18	1651	389	74	845
Match-safe	J. W. Tully	552,650	Jan. 7	263	71	74	51
Match-safe	G. Weigand	570,859	Nov. 3	800	183	77	787
Match-safe	P. Wisdom	554,763	Feb. 18	1704	400	74	855
Match. Slow	R. F. Cooke	557,556	Apr. 7	39	11	75	9
Match-splint cutting and sticking machine	W. E. Williams	555,987	Mar. 10	874	207 208 209	74	1314
Match-splint machine	G. W. Sample	566,279	Aug. 18	2381	584 585	76	1102
Match-sticks from plates. Machine for punching	W. E. Williams	562,687	June 23	2828	686 687	75	1961
Matching-machine	W. H. Bullock	555,495	Mar. 3	22	6	74	1134
Mathematical instrument	A. Lietz	557,333	Mar. 31	3306	793	74	1318
Matrices and apparatus for distributing same	W. Berri	573,199	Dec. 15	1958	471 472 473	77	1689
Matrix and matrix-distributing mechanism	W. Berri	557,541	Apr. 7	16	5	75	5

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Matrix assembling and distributing machine	C. Forth	562,816	June 30	3070	742 743 744 745 746 { 803 804 805	75	2025
Matrix assembling and distributing machine	C. Forth	562,954	June 30	3344	744 745 746 { 803 804 805	75	2082
Matte from slag. Apparatus for separating	M. W. Iles	558,647	Apr. 21	1990	483	75	408
Matte from slag. Apparatus for separating	M. W. Iles	558,648	Apr. 21	1991	483	75	408
Mattress-bats. Means for making	D. Haynes	557,675	Apr. 7	273	66	75	51
Mattress. Cotton-wool	U. S. S. Dahlerup	568,240	Sept. 22	2655	635 636 { 637 638	76	1817
Mattress-frame	T. R. Mueller and R. J. Preuss	561,684	June 9	1110	265	75	1015
Mattress. Inflatable	J. W. Hardesty	569,712	Oct. 20	1764	419	77	362
Mattress-making machine	F. M. Bates	552,883	Jan. 14	730	178	74	151
Mattress. Spring	J. F. Leach	569,420	Oct. 13	1212	285	77	246
Mattress-stuffing machine	E. N. Stephenson	572,914	Dec. 8	1430	345 346 347 { 348 349 350	77	1573
Mattress-stuffing machine	C. W. White	568,648	Sept. 29	3389	811 812 { 813 814	76	1968
Mattress. Ventilated	P. Forsberg	560,613	May 19	2302	527	75	1173
Mattress. Wire	H. Reinhold	562,323	June 16	2210	537	75	1831
Mattresses. Register for folding	H. S. McCormick	571,009	Nov. 10	1061	247	77	864
Maze	P. G. Williams	572,142	Dec. 1	87	19	77	1294
Measure	C. E. Bradley	554,474	Feb. 11	1206	281	74	744
Measure	C. E. Bradley	558,715	Apr. 21	2110	510	75	430
Measure. Draftsman's	H. Sommerfeldt	569,358	Oct. 13	1111	264	77	229
Measure for cloth, ribbon, &c. Scale	J. I. Wagner	556,598	Mar. 17	2027	475	74	1540
Measure reel. Tape	J. W. Lyon	569,792	Oct. 20	1904	451	77	386
Measure. Self-registering lumber	H. W. Congdon	566,140	Aug. 18	2173	529	76	1061
Measure. Tailor's	E. P. Pollett	566,158	Aug. 18	2201	536	76	1067
Measure. Tailor's	E. L. Moon	554,710	Feb. 18	1609	379	74	838
Measure. Tailor's	F. Schindler	559,045	Apr. 28	2688	655	75	556
Measurer for creameries. Automatic	O. B. Ross	574,274	Dec. 29	3992	949	77	2095
Measurer for creameries. Automatic	O. B. Ross	574,275	Dec. 29	3995	949	77	2096
Measuring and marking fabrics. Machine for	R. C. Borchers and I. N. Forrester	553,895	Feb. 4	159	33, 34	74	536
Measuring and proportioning machine	A. G. Collins	559,680	May 5	557	130 131 { 132 133	75	788
Measuring and registering apparatus for liquids. Automatic	F. Vanderpool	561,948	June 9	1576	382 383 { 384 385	75	1693
Measuring and transferring liquids. Vessel for	F. W. Poston	557,876	Apr. 7	620	147	75	117
Measuring apparatus. Automatic grain	A. Hunt	571,922	Nov. 24	2662	631	77	1195
Measuring apparatus. Liquid	J. D. Bruce and F. C. Whitehead	559,257	Apr. 28	3121	754	75	638
Measuring-can for dispensing liquids	J. H. Martindale	561,718	June 9	1178	280	75	1618
Measuring-conveyer	W. G. Kendall	564,329	July 21	1920	453	76	385
Measuring device	J. L. Ackerman	553,820	Feb. 4	1	74	505	
Measuring device	T. P. Farmer	563,850	July 14	1061	250	76	213
Measuring device	S. O. Jones	559,386	May 5	61	14	75	692
Measuring device and register	R. C. De La Hunt	563,711	July 7	800	191 192 { 193 194	76	150
Measuring device. Grain	N. A. Field	566,155	Aug. 18	2195	533 534 { 535 536	76	1065
Measuring device. Land	S. W. Ravenel	563,410	July 7	292	67	76	58
Measuring device. Liquid	G. W. Curtis	571,217	Nov. 10	1419	331	77	930
Measuring device. Liquid	C. A. Fish	559,794	May 12	769	185	75	842
Measuring electric currents. Instrument for	R. M. Hunter	570,481	Nov. 3	76	18	77	652
Measuring-instrument. Electric	E. Thomson	560,379	May 19	1903	433	75	1102
Measuring-instrument. Electrical	A. H. Hoyt	555,702	Mar. 3	369	85	74	1195
Measuring-instrument. Electrical	F. von Hefner-Alteneck and H. Gorges	555,286	Feb. 25	2649	620	74	1048
Measuring instrument. Electrical	H. A. Rowland	561,918	June 9	1521	368 369 { 370 371	75	1682
Measuring instrument. Electrical	H. A. Rowland	561,919	June 9	1524	369 370 { 371 372	75	1683
Measuring-instrument. Electrical	E. Thomson	554,321	Feb. 11	937	215 216 { 217 218	74	693
Measuring-machine	H. P. Wolf	564,132	July 14	1579	370 371 { 372 373	76	311
Measuring machine. Cloth	W. L. Candee	565,603	Aug. 11	1203	289 290 { 291 292	76	858
Measuring machine. Cloth	J. Darling	564,596	July 28	2388	562 563 { 564 565	76	488
Measuring machine. Cloth	J. Knillberg and C. Brunzell	573,335	Dec. 15	2214	529	77	1734
Measuring machine. Rope	G. F. Hoffman	566,909	Sept. 1	297	89	76	1339
Measuring pole	R. Hegarty	571,366	Nov. 17	1675	396	77	993
Measuring-tank for oils, &c.	T. Fuhrmann	568,092	Sept. 22	2261	547	76	1744
Measuring vessel. Self	C. F. Lewis and J. W. Clark	564,383	July 21	2013	472	76	401
Meat-block and chopping-bowl	D. H. Brannen	564,913	July 28	2907	696	76	583
Meat chopper, mixer, and disintegrator. Combined	J. W. Farnoff	554,021	Feb. 4	401	88, 89	74	578
Meat-chopper. Power	J. W. Brown, Jr.	562,279	June 16	2136	519 520 { 521 522	75	1816
Meat-chopping implement	G. W. Hasenritter	567,471	Sept. 8	1301	315	76	1534
Meat-curing apparatus	E. R. Down	564,059	July 14	1455	340 341 { 342 343	76	285
Meat-cutter	W. E. Duncan	554,663	Feb. 18	1532	362	74	822
Meat-cutter	T. Williams, Jr.	563,899	July 14	1160	272 273 { 274 275	76	232
Meat-cutter and meat-cutting mechanism	C. F. Jones	570,222	Oct. 27	2644	626 627 { 628 629	77	540
Meat extract and making same	J. H. Hetherington	554,269	Feb. 11	847		74	676
Meat-hanger	L. S. Travers	569,142	Oct. 6	729	171	77	138
Meat-holder	C. P. Loughridge	561,008	May 26	3044	700	75	1330
Meat-press	J. W. Clapp	561,091	June 2	27	7, 8	75	1372

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Meat-puncturing instrument.	T. A. Bray	570,593	Nov. 3	298	73	77	694
Meat scrubbing or washing machine.	W. W. Michner	554,707	Feb. 18	1603	{ 377 378 }	74	837
Meat-suspender.	N. Swartz, Jr., and H. M. Wood	565,943	Aug. 13	1827	444	76	996
Meat-tenderer.	L. L. Black	559,838	May 12	891	198	75	864
Meat-tenderer.	R. Delong	572,527	Dec. 8	770	183	77	1440
Meat-tenderer.	H. C. Hubbell	573,660	Dec. 22	2848	672	77	1872
Meat-tenderer.	J. Williams	552,462	Apr. 14	1682	404	75	335
Mechanical motor.	F. P. Bishop	565,200	Aug. 4	466	111	76	703
Mechanical motor.	A. D. Bryce	563,556	July 7	549	125	76	103
Mechanical motor.	J. M. Dickson	557,774	Apr. 7	453	107	75	85
Mechanical motor.	I. Johnson	568,853	Oct. 6	242	56	77	47
Mechanical motor.	A. E. Meek	562,902	June 30	3235	{ 781 782 }	75	2058
Mechanical movement.	A. J. Corneau	569,006	Oct. 6	504	114	77	96
Mechanical movement.	G. M. Eckels	557,116	Mar. 31	2898	{ 692 693 }	74	1746
Mechanical movement.	E. F. Edgar	556,235	Feb. 25	2546	599	74	1028
Mechanical movement.	H. P. Eilers	553,113	Jan. 14	1147	278	74	230
Mechanical movement.	L. C. and U. G. Gillett	553,581	Jan. 28	1969	467	74	413
Mechanical movement.	J. Gross	563,227	June 30	3824	916	75	2173
Mechanical movement.	W. T. Hanson	563,590	July 7	600	139	76	112
Mechanical movement.	H. E. Harbaugh	552,527	Jan. 7	41	12	74	11
Mechanical movement.	J. A. Hawthorn	558,386	Apr. 14	1541	377	75	308
Mechanical movement.	G. W. Hey	569,132	Oct. 6	711	167	77	135
Mechanical movement.	W. S. Huson	570,597	Nov. 3	304	75, 76	77	695
Mechanical movement.	W. Livingstone	562,086	June 16	1827	{ 444 445 }	75	1758
Mechanical movement.	W. J. McCormick	556,550	Mar. 17	1950	455	74	1526
Mechanical movement.	E. A. Sperry	563,424	July 7	322	72, 73	76	63
Mechanical movement.	E. H. Taylor	572,584	Dec. 8	870	209	77	1463
Mechanical movement.	J. J. Waters	570,578	Nov. 3	269	67	77	688
Mechanical movement.	H. A. W. Wood	559,016	Apr. 28	2636	642	75	546
Mechanical movement.	H. A. W. Wood	570,586	Nov. 3	283	69, 70	77	691
Mechanical movement.	H. A. W. Wood	570,557	Nov. 3	286	70, 71	77	691
Medical apparatus. Magnetic.	A. B. Slater and N. A. Renstrom	561,448	June 2	692	171	75	1500
Medical compound.	W. W. Spaulding	565,125	Aug. 4	307		76	674
Medical electrode.	W. P. Horton, Jr.	562,765	June 23	2967	718	75	1989
Medical thermometer.	E. Pinchetti	559,205	Apr. 28	3009	727	75	618
Medicine-case and saddle-bags. Combined.	J. E. Smoot	554,843	Feb. 18	1838	{ 432 433 }	74	882
Medicine-dose-indicating cabinet.	N. S. Springer	569,359	Oct. 13	1111	265	77	229
Medicine-dose indicator.	C. E. Glentworth	571,436	Nov. 17	1790	427	77	1014
Medicine-dose indicator.	H. P. Scott	557,616	Apr. 7	132	40	75	30
Medicine-glass.	I. J. Duck	566,067	Aug. 18	2043	498	76	1038
Meloharp-pick.	G. B. Shearer	566,806	Sept. 1	116	28	76	1303
Melting-furnace. Reverberatory.	A. N. Gaylord	560,406	May 19	1952	446	75	1110
Mercury test-gage.	W. and J. Boekel	559,767	May 5	720	170	75	818
Merry-go-round.	L. D. Howard	564,409	July 21	2057	482	76	411
Merry-go-round.	W. Meissner	555,325	Feb. 25	2717	636	74	1060
Merry-go-round.	O. Olson and J. A. Johanson	572,712	Dec. 8	1104	268	77	1508
Merry-go-round.	N. and C. Rolland	558,114	Apr. 14	1082	265	75	222
Merry-go-round.	W. X. Simpson	571,626	Nov. 17	2111	{ 506 507 }	77	1072
Merry-go-round.	R. J. Talbot	566,945	Sept. 1	360	84	76	1351
Mess-kit. Field-ration.	G. H. Preston	555,882	Mar. 3	670	160	74	1254
Message-holder for use with homing pigeons.	H. Marion	569,111	Oct. 6	673	157	77	128
Metal articles. Apparatus for manufacturing hollow.	J. A. Potter	567,410	Sept. 8	1206	289	76	1517
Metal band for sectional jackets or steam-pipe coverings.	W. C. Bull	570,276	Oct. 27	2750	654	77	559
Metal-banding device.	H. S. Bacon	565,664	Aug. 11	1316	317	76	880
Metal-banding implement.	H. S. Bacon	565,663	Aug. 11	1316	317	76	880
Metal-banding implement.	A. F. Stowe	565,704	Aug. 11	1383	337	76	894
Metal bar, wire, tube, &c. Hollow or solid.	A. F. E. Dupont	560,484	May 19	2090	478	75	1135
Metal-bending machine.	J. B. Elliott	561,211	June 2	240	57	75	1414
Metal-bending machine.	H. Lefèvre	567,811	Sept. 15	1880	450	76	1680
Metal bracket.	C. A. Cotter	557,111	Mar. 31	2893	691	74	1745
Metal-breaking machine.	C. L. Miller and J. R. George	569,793	Oct. 20	1905	{ 451 452 }	77	386
Metal can.	F. P. McColl	570,494	Nov. 3	106	26, 27	77	658
Metal can.	C. McQuillan	561,338	June 2	490	123	75	1465
Metal-drawing die.	W. A. McCool and W. G. Algeo, Jr.	567,605	Sept. 15	1528	367	76	1591
Metal-folding machine.	E. J. Wittebolle	562,877	June 30	3195	{ 772 773 }	75	2049
Metal for stamping or drawing-in dies. Preparing.	H. K. Jones	552,763	Jan. 7	480	114	74	90
Metal-founding.	T. Doherty	565,262	Aug. 4	598	141	76	725
Metal-heating furnace.	W. H. Bailey	555,554	Mar. 3	122	28	74	1153
Metal hollow ware. Apparatus for ornamenting soft.	W. A. Cuppers, Jr.	568,839	Oct. 6	208	50	77	41
Metal joint.	A. W. Kirsch-King	563,184	June 30	3748	897	75	2159
Metal. Machine for spinning circular forms of.	F. Mink	568,984	Oct. 6	466	{ 105 106 }	77	89
Metal. Manufacturing manganese.	J. W. Cabot and S. W. Vanghen	556,457	Mar. 17	1783		74	1496
Metal-ornamenting machine.	G. E. Hunter	563,595	July 7	609	{ 141 142 }	76	114
Metal planers and shapers. Mechanism for adjusting length of stroke in.	M. Flather	564,064	July 14	1461	343	76	287
Metal-planers. Compound ratchet feed-gearing for.	A. M. Powell	562,482	June 23	2477	601	75	1896
Metal-planing machine.	H. Hess	570,093	Oct. 27	2423	573	77	498
Metal-planing-machine attachment.	J. R. Willard	564,810	July 28	2749	653	76	533
Metal-planing machines. Automatic feed-stop for.	A. M. Powell	570,954	Nov. 10	971	226	77	848
Metal-planing machines. Feed-operator for.	A. M. Powell	570,953	Nov. 10	968	226	77	847
Metal-plate bending or setting apparatus.	C. D. Doxford	565,535	Aug. 11	1085	{ 260 261 }	76	837

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &.	Vol.	Page.
Metal plates, &c. Apparatus for manufacturing rolled.	S. M. Strite	567,756	Sept. 15	1781	428	76	1641
Metal-polishing machine	T. L. Wallace	564,668	July 28	2498	590	76	509
Metal-refining apparatus	W. A. Koneman	560,414	May 19	1968	451	75	1113
Metal-separating apparatus	J. A. Mays	566,921	Sept. 1	320	74, 75	76	1344
Metal-separator. Electric	H. H. Whitacre and A. C. Wolfe	564,858	July 28	2830	675	76	568
Metal-separator. Electric	H. H. Whitacre and A. C. Wolfe	564,859	July 28	2831	676	76	568
Metal separator. Electric	H. H. Whitacre and A. C. Wolfe	573,741	Dec. 22	2930	705	77	1897
Metal-shaping apparatus	E. M. Ferguson	570,010	Oct. 27	2267	539	77	467
Metal shavings. Machine for producing	J. G. Ulmann	573,728	Dec. 22	2960	701	77	1893
Metal-shearing machine	J. B. McLane	569,226	Oct. 13	881	209	77	184
Metal sheets. Machine for cutting or trimming packs of	J. G. Hodgson	560,065	May 12	1326	296	75	946
Metal sheets. Machine for trimming and slitting packs of	J. G. Hodgson	560,064	May 12	1323	296	75	945
Metal-straightening machine	E. C. Atkins and R. Coyle	573,955	Dec. 29	3357	805	77	1981
Metal strips. Machine for winding	F. Purdy	553,935	Feb. 4	248	54	74	551
Metal tie	E. L. Sawyer	569,427	Oct. 13	1921	286	77	247
Metal tube	J. Carlson	556,805	Mar. 24	2375	559	74	1623
Metal tube	S. H. Leavenworth	563,932	July 14	1219	285	76	242
Metal wheel	F. J. Cooper	554,054	Feb. 4	459	102	74	588
Metal wheel	F. J. Cooper	554,055	Feb. 4	459	103	74	589
Metal wheel. Hollow	W. B. Roberts	552,719	Jan. 7	384	101	74	74
Metal-working apparatus. Electric	H. Lemp	564,331	July 21	1923	454	76	385
Metal-working apparatus. Electric	H. Lemp	564,792	July 28	2718	646	76	548
Metal-working apparatus. Electric	H. Lemp and W. B. Lewis	556,426	Mar. 17	1724	401	74	1484
Metal-working apparatus. Electric	E. E. Ries	564,453	July 21	2128	498	76	423
Metal-working tool	T. L. Stewart	560,239	May 19	1652	376	75	1058
Metals. Apparatus for melting	R. G. G. Moldenke	569,221	Oct. 13	869	205	77	182
Metals from ores. Extracting noble	O. Frölich	556,092	Mar. 10	1079		74	1349
Metals from their ores. Method of and apparatus for extracting	H. G. Williams	552,07	Jan. 7	581	141	74	109
Metals. Means for and method of preventing corrosion of	M. W. Henius	572,678	Dec. 8	1034	251	77	1496
Metals or alloys. Introducing chrome into	E. Placet and J. Bonnet	573,615	Dec. 22	2732		77	1851
Metals. Pickling	A. S. Ramage	568,412	Sept. 29	2941	707	76	1886
Metals under pressure. Apparatus for treating heated	G. A. Dick	571,265	Nov. 10	1504	355	77	947
Metallic articles by electrolysis. Manufacture of	M. Perreux-Lloyd	560,533	May 19	2157	493	75	1147
Metallic article. Compound	W. J. Taylor	565,243	Aug. 4	574	134	76	721
Metallic compounds by electricity. Process of and apparatus for producing	E. N. Dickerson	557,057	Mar. 24	2807	667	74	1705
Metallic or composite box	H. J. S. Brown	571,427	Nov. 17	1767	422	77	1010
Metallic sand or pulverized ores. Reducing	A. A. Dickson	560,200	Oct. 20	1944	462	77	394
Metallic sand or pulverized ores. Reducing	A. A. Dickson	569,821	Oct. 20	1946	463	77	394
Metallic slats. Machine for making	W. R. Kinnear	572,015	Nov. 24	2811	664	77	1224
Metallic tie	E. Cronin and H. P. Shields	570,005	Oct. 27	2263	537	77	466
Metallurgical furnace	B. Talbot	571,250	Nov. 10	1479	347	77	941
Metallurgical furnace and process	A. Wronski	572,393	Dec. 1	558	132	77	1384
Metallurgical vessels. Tipping	H. Aiken	569,987	Oct. 27	2228	528	77	459
Meter:							
See Disk meter.	Steam-meter.						
Electric meter.	Target-meter.						
Exposure-meter.	Water-meter.						
Gas-meter.	Water or other fluid meter.						
Liquid-meter.	Wattmeter.						
Photographic-exposure meter.							
Meter	J. H. Dixon	572,414	Dec. 1	587	140	77	1390
Meter	C. F. Holdship	565,208	Aug. 4	475	113	76	705
Meter	C. F. Holdship	565,209	Aug. 4	479	114	76	705
Meter	F. Lambert	569,137	Oct. 6	721	169	77	137
Meter indicating and registering apparatus	P. Marix	558,736	Apr. 21	2146	517	75	437
Meter indicating and registering apparatus	P. Marix	559,394	May 5	79	17	75	696
Meter-testing machine	B. E. Chollar	565,838	Aug. 11	1620	396	76	937
Methoxy-acetphenetidin	A. Bischler	563,009	June 30	3433	397	75	2100
Micrometer-beam gage	J. J. McIntyre	571,094	Nov. 10	1213	284	77	892
Micrometer-gage	J. T. Slocumb	559,820	May 12	844	198	75	856
Micrometer-gage	F. Spalding	557,445	Mar. 31	3500	837	74	1856
Micrometer-gage	J. Stromberg	570,189	Oct. 27	2585	614	77	528
Micrometer-gage	G. Thompson	571,178	Nov. 10	1357	316	77	919
Microphone	G. W. Sutton	561,358	June 2	523	131	75	1470
Microphone-transmitter	E. A. Barkalow and N. Crawford	571,504	Nov. 17	1913	456	77	1037
Middlings-purifier	P. H. Jacobson	553,285	Jan. 21	1462	351	74	302
Military equipment and accoutrement	J. Zinn	559,509	May 5	274	65	75	735
Milk. Apparatus for sterilizing	W. Kortüm	557,993	Apr. 7	830	197	75	156
Milk-can	H. Emery and W. Morgan	573,865	Dec. 29	3197	761	77	1951
Milk-can	H. E. Schmidt	569,770	Oct. 20	1863	441	77	379
Milk-can	J. M. Williams	564,040	July 14	1409	327	76	276
Milk-can. Condensed	A. A. Smith	560,943	May 26	2948	676	75	1312
Milk-cooler	A. H. Reid	557,883	Apr. 7	628	149	75	118
Milk-cooling apparatus	M. Thoeni	566,817	Sept. 1	130	32	76	1306
Milk-delivery box	H. Cullen	562,585	June 23	2666	645	75	1931
Milk, &c. Ferment for ripening	V. Storch	561,291	June 2	404	100	75	1448

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g	Vol.	Page.
Milk-heating device.....	F. Knobel and J. Bontly.....	555,515	Mar. 3	52	12	74	1140
Milk-heating vat.....	R. S. Buch and J. Belser.....	573,389	Dec. 15	2301	550	77	1751
Milk or cream. Preserving.....	F. Casse.....	565,837	Aug. 11	1618	.....	76	937
Milk or cream. Preserving.....	E. P. Hals.....	564,069	July 14	1468	.....	76	288
Milk. Pasteurizing.....	L. G. Fagersten and C. F. P. Kors-sell.....	566,268	Aug. 18	2366	.....	76	1100
Milk. Process of and apparatus for sterilizing.....	E. Taulis.....	564,851	July 28	2813	671	76	565
Milk-receiver.....	C. M. Wilkins.....	564,131	July 14	1378	370	76	311
Milk rennet test.....	A. J. Marschall.....	553,849	Jan. 21	1567	374	74	320
Milk-sterilizer.....	H. M. Myers.....	555,657	Mar. 3	303	71	74	1184
Milk weighing and discharging machine.....	C. S. Brown and W. E. Penn.....	565,721	Aug. 11	1421	{ 346 347 }	76	900
Milk-weighing apparatus. Automatic.....	D. W. Curtis.....	565,437	Aug. 11	874	207	76	798
Milker. Cow.....	C. G. P. de Laval.....	574,357	Dec. 29	4128	900	77	2121
Milker. Cow.....	W. M. Mehrling.....	571,573	Nov. 17	2027	482	77	1057
Milker. Cow.....	J. E. O'Sullivan.....	572,713	Dec. 8	1105	268	77	1508
Milker. Cow.....	A. Shiels.....	556,217	Mar. 10	1307	{ 306 307 }	74	1390
Milker. Cow.....	G. C. Twyman and M. E. Thomas.....	564,126	July 14	1571	369	76	309
Milking-machine.....	A. Shiels.....	558,666	Apr. 21	2033	490	75	415
Milking-machine teat-cup.....	A. Shiels.....	557,241	Mar. 31	3153	{ 755 756 }	74	1789
Mill:							
See Ball-mill. Grinding-mill.							
Ball grinding-mill. Grinding or crushing mill.							
Bark-mill. Ore-mill.							
Boring and turning mill. Ore-crushing mill.							
Cane-mill. Pulverizing-mill.							
Color-mill. Quartz-mill.							
Crusher-mill. Reducing-mill.							
Crushing-mill. Roller-mill.							
Crushing and grind- Rolling-mill.							
ing mill. Sawmill.							
Culinary mill. Seed-cleaning mill.							
Edge-runner mill. Spice-mill.							
Fanning-mill. Stamp-mill.							
Feed-mill. Windmill.							
Gig-mill.							
Mill.....	G. C. Ahrens.....	556,607	Mar. 17	2039	477	74	1542
Mill for grinding liquid substances.....	P. Faust.....	566,069	Aug. 18	2045	498	76	1038
Mill for reducing crackers to powder. Portable.....	W. Trehwella.....	568,997	Oct. 6	492	111	77	94
Mills. Hopper for roller feed.....	A. Wyker.....	553,092	Jan. 14	1107	268	74	232
Milling-machine.....	R. F. Hall.....	555,372	Feb. 25	2795	655	74	1075
Milling-machine.....	F. Holz.....	554,422	Feb. 11	1111	{ 259 260 261 }	74	727
Milling-machine.....	F. Holz.....	554,423	Feb. 11	1115	261	74	728
Milling-machine.....	E. Johnson.....	565,992	Aug. 18	1933	{ 467 468 }	76	1017
Milling-machine.....	A. J. Langelier.....	567,952	Sept. 15	2112	509	76	1703
Milling-machine.....	W. and S. Moltrup.....	557,594	Apr. 7	116	{ 29 30 31 }	75	23
Milling-machine.....	C. E. Van Norman.....	570,723	Nov. 3	558	129	77	741
Milling machine. Automatic valve.....	J. G. Oliver and G. C. Bardons.....	555,116	Feb. 25	2347	558	74	991
Milling-machine. Monitor.....	O. P. Briggs.....	563,256	July 7	36	8, 9	76	9
Millstone.....	H. M. Barr.....	565,673	Aug. 18	1695	415	76	969
Millstone-dress.....	G. W. Kolfrat.....	562,306	June 16	2182	530	75	1825
Millstone-dressing machine.....	R. L. May and L. T. Hunter.....	562,733	June 23	2917	708	75	1979
Millstone-pick.....	F. N. Silvey.....	562,044	June 16	1748	423	75	1745
Milliamperometer.....	C. M. Hollopeter.....	559,134	Apr. 28	2882	694	75	592
Mine cage and elevator. Electric.....	C. J. Cutler.....	558,450	Apr. 14	1658	398	75	331
Mine-guard.....	C. E. Anderson.....	553,382	Jan. 21	1622	386	74	331
Mine trap-door.....	G. Bonenberger.....	561,369	June 2	543	137	75	1475
Mine trap-door.....	G. Bonenberger.....	569,952	Oct. 20	2173	{ 515 516 }	77	437
Mine trap-door.....	H. Keyes.....	571,570	Nov. 17	2021	{ 480 481 }	77	1056
Mine trap-door.....	J. O. Brien.....	557,481	Mar. 31	3560	{ 851 852 }	74	1868
Mine trap-door.....	J. O'Brien. (Reissue).....	11,551	June 30	3856	{ 923 924 }	75	2179
Mine trap-door.....	D. C. Thomas.....	556,073	Mar. 10	1048	249	74	1343
Mine-waters. Apparatus for treating.....	C. W. Goodale and H. W. Hixon.....	567,312	Sept. 8	1028	246	76	1425
Miner's and blaster's tool.....	M. Killian.....	572,808	Dec. 8	1276	307	77	1540
Miner's implement.....	T. J. Murray.....	565,497	Aug. 11	1029	247	76	826
Miner's knife.....	G. M. Bergen.....	567,068	Sept. 1	593	138	76	1395
Miner's tool and candlestick. Combined.....	A. O. Sjöholm.....	554,546	Feb. 11	1314	309	74	765
Mining and dredging. Ejector for.....	W. Muir.....	573,611	Dec. 22	2726	648	77	1849
Mining and separating machine. Ore.....	M. Covel.....	558,674	Apr. 21	2047	{ 493 494 }	75	417
Mining apparatus. Placer.....	R. C. Roach.....	552,856	Jan. 7	661	162	74	125
Mining. Dredge-bucket for placer.....	W. J. Moore.....	569,837	Oct. 20	1969	468	77	399
Mining dredge. Gold.....	W. E. Seanor and D. A. McCaskill.....	569,064	Oct. 6	597	{ 136 137 }	77	114
Mining-drill.....	M. Wolfe and M. Devlin.....	561,250	June 2	294	74	75	1425
Mining drills and reamers. Apparatus for operating.....	R. H. Elliott.....	561,501	June 2	779	190	75	1517
Mining gold, &c.....	H. Frasch.....	565,342	Aug. 4	719	172	76	749
Mining-machine.....	H. H. Bliss.....	568,329	Sept. 29	2798	{ 673 674 }	76	1860
Mining-machine.....	H. H. Bliss.....	568,937	Oct. 6	368	85	77	71
Mining-machine.....	J. Boland and G. W. Fritz.....	571,259	Nov. 10	1491	{ 350 351 }	77	944

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. gr.	Vol.	Page.
Mining-machine.....	F. M. Lechner.....	564,705	July 28	2559	606	76	521
Mining-machine.....	F. M. Lechner.....	569,758	Oct. 20	1845	437	77	376
Mining-machine.....	J. E., D. A., and T. E. Lee.....	563,776	July 14	916	{ 218 219 }	76	187
Mining-machine.....	J. M. McHugh.....	563,401	July 7	278	63	76	56
Mining-machine.....	E. S. McKinlay.....	557,144	Mar. 31	2952	{ 706 707 }	74	1757
Mining-machine.....	E. S. McKinlay.....	560,363	May 19	1871	427	75	1095
Mining-machine.....	E. S. and W. A. McKinlay.....	561,023	May 26	3065	{ 706 707 }	75	1335
Mining-machine.....	G. F. Myers.....	564,758	July 28	2666	634	76	539
Mining-machine.....	C. O. Palmer.....	557,340	Mar. 31	3318	{ 797 798 }	74	1821
Mining-machine.....	E. and W. Patterson.....	570,330	Oct. 27	2888	686	77	584
Mining-machine.....	C. E. Wolfendale and G. W. Fritz.....	557,745	Apr. 7	408	95, 96	75	77
Mining-machine.....	B. Yoch.....	563,000	June 30	3421	823	75	2098
Mining machine. Coal.....	J. M. Housholder.....	573,271	Dec. 15	2080	{ 498 499 }	77	1710
Mining-machine. Electric.....	R. H. Wiles.....	568,933	Oct. 6	363	83	77	70
Mining-machine holding mechanism.....	W. H. Slade.....	572,074	Nov. 24	2947	693	77	1249
Mining machinery. Hydraulic.....	T. B. Ludlum.....	563,604	July 7	624	146	76	117
Mining-machine truck.....	H. B. Dierdorff.....	558,264	Apr. 14	1339	{ 327 328 }	75	270
Mining-machine. Undercut.....	G. W. Lutes.....	553,248	Jan. 21	1382	{ 337 338 }	74	288
Mining. Method of and apparatus for placer.....	E. D. Bronson.....	553,775	Jan. 28	2293	543	74	472
Mining purposes. Combined auger and reamer for.....	R. H. Elliott.....	564,508	July 21	2212	519	76	438
Mining purposes. Combined auger and reamer for.....	R. H. Elliott.....	564,509	July 21	2214	520	76	439
Minnow. Artificial.....	H. O. Stanley.....	570,687	Nov. 3	506	118	77	733
Minnow-bucket.....	G. D. Ferris.....	553,456	Jan. 21	1731	413	74	352
Mirror.....	A. C. Estabrook.....	573,770	Dec. 22	3020	716	77	1905
Mirror. Adjustable.....	W. A. Morrison and C. L. Ames.....	553,355	Jan. 21	1580	377	74	323
Mirror attachment for dressers.....	L. Gibson and A. Crank.....	557,575	Apr. 7	86	21	75	18
Mirror. Duplex.....	R. F. Pickens.....	567,163	Sept. 8	765	179	76	1439
Mirror. Floor.....	C. P. Mosher and N. R. Streeter.....	574,254	Dec. 29	3956	940	77	2088
Mirror-stand.....	E. C. Fowler.....	568,480	Sept. 29	3051	733	76	1906
Miter and bevel gear-wheels. Machine for cutting.....	J. Buck.....	565,834	Aug. 11	1614	395	76	936
Miter-box.....	J. Ellis.....	569,327	Oct. 13	1058	251	77	218
Miter-box.....	T. E. King.....	562,899	June 30	3232	781	75	2057
Miter-box.....	S. P. Lerch.....	562,471	June 23	2461	597	75	1893
Mitering-machine.....	C. A. Walter and S. E. Fowler.....	565,652	Aug. 11	1298	313	76	877
Mitten. Bicycle.....	T. H. Royce.....	571,020	Nov. 10	1080	252	77	868
Mitten. Driving.....	D. C. Clapp.....	557,362	Mar. 31	3361	807	74	1890
Mixer: See Air and gas mixer. Drink-mixer. Batter-mixer. Paint-mixer. Dough-mixer. Wheat-mixer.							
Mixer for eggs, batter, cream, &c.....	E. J. and J. R. Eynon.....	553,027	Jan. 14	981	237	74	197
Mixing-machine.....	J. H. Day and C. Krumholz.....	560,259	May 19	1692	385	75	1065
Mixing-machine.....	C. Greene.....	558,802	Apr. 21	2262	547	75	458
Mixing-machine.....	W. M. Jennings.....	558,876	Apr. 21	2386	{ 581 582 }	75	482
Moccasin. Brakeman's.....	A. E. Nicklin.....	566,407	Aug. 25	2643	645	76	1168
Model-holder.....	G. A. White.....	563,699	July 7	779	185	76	146
Moistener. Envelop.....	J. G. Eversman.....	569,185	Oct. 13	803	187	77	169
Moistener for gummed surfaces.....	C. M. Pratt.....	562,659	June 23	2782	675	75	1953
Moistening apparatus.....	C. A. Peple.....	555,616	Mar. 3	220	52	74	1171
Moistening-cabinet.....	A. A. Adams.....	567,043	Mar. 24	2783	662	74	1700
Moistening device.....	C. J. Neuhard.....	567,353	Sept. 8	1116	268	76	1500
Moistening device. Mucilage.....	N. Jensen.....	554,933	Feb. 18	2000	474	74	911
Moistening postage-stamps, &c. Device for.....	E. F. Gafney.....	565,974	Aug. 18	1900	461	76	1010
Mold: See Battery-plate mold. Ice-cream mold. Brick-mold. Pipe-covering mold. Casting-mold. Type-mold. Cigar-mold. Veneering-mold.							
Mold.....	J. D. Baker.....	561,554	June 9	886	213	75	1563
Moldboard.....	S. A. Smith.....	568,216	Sept. 22	2610	{ 627 628 }	76	1809
Moldboard-fastener.....	W. H. Bodenhamer.....	567,289	Sept. 8	985	233	76	1477
Mold-pattern. Collapsible and adjustable.....	M. A. Baker.....	571,060	Nov. 10	1142	{ 267 268 }	77	880
Molds. Method of and apparatus for forming sand.....	S. J. Adams.....	574,052	Dec. 29	3546	{ 846 847 }	77	2016
Molds. Sand-blast apparatus for cleaning.....	J. E. Parker.....	554,299	Feb. 11	902	208	74	687
Molds. Sand-blast apparatus for cleaning.....	J. E. Parker.....	554,300	Feb. 11	904	208	74	687
Molder's clamp.....	J. Bannister.....	554,972	Feb. 18	2061	490	74	923
Molder's screen.....	V. E. Groff and J. K. Miller.....	562,076	June 16	1812	437	75	1755
Molding device.....	A. M. Thompson.....	559,635	May 5	488	113	75	776
Molding-machine.....	O. Bryant.....	569,743	Oct. 20	1810	{ 429 430 431 432 }	77	370
Molding-machine.....	J. A. Field.....	560,404	May 19	1948	445	75	1109
Molding-machine.....	S. Groves.....	573,783	Dec. 22	3035	{ 719 720 }	77	1908
Molding-machine.....	F. W. T. Hartland and A. Malpas.....	572,656	Dec. 8	997	240	77	1488
Molding-machine.....	H. and G. F. Reynolds.....	568,548	Sept. 29	3197	770	76	1932
Molding-machine.....	T. J. Ryan.....	572,278	Dec. 1	328	{ 78 79 80 }	77	1342
Molding-machine.....	F. H. Van Houten.....	557,627	Apr. 7	171	44, 45	75	34
Molding-machine. Automatic.....	J. W. Brown, Jr.....	567,884	Sept. 15	1994	478	76	1683
Molding machine. Curve.....	G. Henderson.....	569,714	Oct. 20	1766	419	77	362

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Molding-machine for forming warped or irregular surfaces.	E. L. Taft	573,050	Dec. 15	1698	406	77	1641
Molding-machine. Founder's	F. J. Scott	560,433	May 19	2005	{ 459 460	75	1120
Molding-machine. Founder's	F. J. Scott	560,548	May 19	2191	{ 499 500		
Molding machine. Sand-core	T. J. Ryan	571,458	Nov. 17	1818	{ 434 435	77	1020
Molding-machines. Cutter-head for variety	C. W. Fowler	559,695	May 5	582	137	75	793
Molding or sticking machine	C. D. Marsh	556,015	Mar. 10	930	221	74	1323
Molding-press	G. W. Van Tine	568,819	Oct. 6	180	43, 44	77	36
Molding-press	G. W. Van Tine	569,690	Oct. 20	1708	{ 404 405	77	353
Molding-press	G. W. Van Tine	569,691	Oct. 20	1709	405		
Moldings. Machine for cleaning and polishing	C. O. Wigell and F. E. Wolff	554,758	Feb. 18	1691	{ 398 399	74	853
Mole-trap	I. Lehmer and W. A. Thomas	560,806	May 26	2691	618	75	1263
Mole-trap	J. W. Roger, C. W. and G. D. Denison.	563,310	July 7	134	31	76	28
Mole-trap	G. Walker and W. Pearce	554,901	Feb. 18	1948	458	74	902
Momentum-engine	J. M. Miller and W. L. B. Collins	554,073	Feb. 4	494	111	74	595
Money-changer	G. T. Farnell	569,912	Oct. 20	2091	{ 497 498	77	421
Monkey-wrench	C. B. Campbell	566,655	Aug. 25	3045	744		
Monocyclic generator	E. Thomson	555,590	Mar. 3	178	41	74	1162
Mop	H. Rowlands	571,246	Nov. 10	1473	345	77	940
Mop	H. A. Wolff	559,092	Apr. 28	2770	{ 670 671	75	572
Mop-head	C. Morgan	553,354	Jan. 21	1579	376		
Mop-head	R. V. V. Sutherland	552,649	Jan. 7	263	71	74	51
Mop-holder	C. Cross	556,253	Mar. 10	1370	322	74	1402
Mop or brush	D. E. Ballam	565,588	Aug. 11	1182	284	76	855
Mop. Scouring	T. J. Billingsley	552,980	Jan. 14	915	222	74	185
Mop-wringer	A. M. Burnham	560,189	May 19	1552	351	75	1041
Mop-wringer	H. A. Dechenne	568,895	Oct. 6	307	70	77	59
Mop-wringer	M. A. Michales	560,144	May 12	1467	331	75	973
Mop-wringer	A. S. Miller	553,654	Jan. 28	2098	496	74	434
Mop-wringer	J. Sealey	568,283	Sept. 22	2719	652	76	1830
Mop-wringer	H. A. Wolff	559,093	Apr. 28	2772	671	75	573
Moquette fabric and moquette-loom	E. Tymeson	571,418	Nov. 17	1752	{ 418 419	77	1008
Mortise-lock	C. W. Squires	554,964	Feb. 18	2049	{ 485 486		
Mortising-machine. Endless-chain-cutter	C. Loetscher	559,781	May 5	744	179	75	822
Mortising machine. Wood	S. F. Tibbetts	573,312	Dec. 15	2180	520	77	1728
Moth-bags. Device for closing	G. F. Rose	564,224	July 21	1743	408	76	353
Motion. Device for converting	G. E. Bardshar and A. Heiberger	571,939	Nov. 24	2690	636	77	1202
Motion. Device for converting	A. Boucharat	563,444	July 7	354	81	76	69
Motion. Device for converting	E. W. Hammon	554,062	Feb. 4	467	105	74	590
Motion. Device for converting	V. and M. McCullough	571,679	Nov. 17	2197	529	77	1088
Motion. Device for converting	W. E. Watkins	571,296	Nov. 10	1559	370	77	958
Motion. Means for changing	J. J. Hamilton	553,582	Jan. 28	1970	467	74	413
Motion. Means for changing	J. J. Hamilton	555,507	Mar. 3	38	9	74	1137
Motion. Mechanism for converting continuous rotary into alternating rotary	E. C. Doolittle	562,124	June 16	1883	457	75	1769
Motion. Means for transmitting	W. C. Douthett	570,871	Nov. 3	828	192	77	793
Motion. Mechanism for imparting and reversing	E. S. Burman	557,486	Mar. 31	3575	855	74	1870
Motion. Mechanism for transmitting	A. Becker	570,366	Oct. 27	2941	698	77	594
Motion with variable speed. Mechanism for transmitting	E. C. Osgood	568,367	Sept. 29	2864	688	76	1872
Motive-fluid supply and discharge device for rotary power-driven machines.	H. C. Jones	569,924	Oct. 20	2113	{ 502 503	77	425
Motive power apparatus	D. Davis	564,506	July 21	2208	518		
Motive power. Device for regulating	B. A. Fiske	558,724	Apr. 21	2125	{ 512 513	75	433
Motor:							
See Air-motor.	Power-motor.						
Alternating motor.	Railway-motor.						
Bicycle spring-motor.	Rectilinear motor.						
Car-motor.	Rotary motor.						
Current-motor.	Sewing-machine motor.						
Electric motor.	Spring-motor						
Electromagnetic motor.	Steam, air, or water motor.						
Fan-motor.	Traction-motor.						
Field-motor.	Turbine motor.						
Fluid-motor.	Vapor-motor.						
Gravity-motor.	Vehicle-motor.						
Hydraulic motor.	Velocipede spring-motor.						
Manual motor.	Vessel-motor.						
Mechanical motor.	Water-motor.						
Petroleum-motor.	Wave-motor.						
Wind-motor.							
Motor	I. J. Griffin	562,821	June 30	3088	748	75	2029
Motor	M. M. Montgomery	561,722	June 9	1189	{ 982 283	75	1620
Motor	P. Stark	573,366	Dec. 15	2266	541		
Motor-controlling apparatus	S. D. Field	566,070	Aug. 18	2046	{ 498 499	76	1039
Motor-controlling device	C. E. Ongley	561,271	June 2	334	83, 84		
Motor fluid. Means for controlling supply of	E. A. Fordyce	570,162	Oct. 27	2537	{ 602 603	77	519
Motor for bicycles or the like	B. F. Brubaker	554,650	Feb. 18	1512	355		
Motor-generator	C. E. Scribner	574,278	Dec. 29	4000	950	77	2097

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & Co.	Vol.	Page.
Motor, locomotive, or car wheel	J. Christiansen, A. Burnham, and J. A. Duggan.	563,447	July 7	360	83	76	70
Motor mounting and driving mechanism	E. J. Bagnall	567,560	Sept. 8	1439	346	76	1559
Motor or engine	S. M. Balzer	573,174	Dec. 15	1909	459	77	1681
Motor-stop. Automatic	W. M. Wood and J. C. Miller	561,846	June 9	1410	339	75	1660
Motor-stop. Automatic	W. M. Wood and J. C. Miller	561,847	June 9	1412	339	75	1661
Motor-suspension	N. C. Bassett	556,488	Mar. 17	1834	340	74	1506
Motors and motor-frames. Means for supporting	E. S. Breed	557,049	Mar. 24	2792	663	74	1702
Motors. Automatic governing device for	B. F. Merritt and J. M. Joy	558,507	Apr. 21	1764	428	75	367
Motors. Power-gearing for electric or other	E. A. Sperry	565,936	Aug. 18	1815	441	76	994
Motors. Regulating admission of current to	F. E. Herdman	567,714	Sept. 15	1707	410	76	1626
Motors. Regulating alternating	A. H. Armstrong	562,062	June 16	1774	429	75	1750
Motors. Tandem-parallel controller for induction	W. B. Potter and F. E. Case	568,458	Sept. 29	3018	725	76	1901
Mouse-trap	G. A. Smith	567,201	Sept. 8	817	194	76	1448
Mouthpiece. Adjustable	H. Elliott	557,569	Apr. 7	77	20	75	16
Mouth-shield	O. McCullen	566,730	Aug. 25	3179	777	76	1267
Mower	S. V. Kennedy	572,549	Dec. 8	802	192	77	1446
Mower	A. Pfund	557,317	Mar. 31	3280	786	74	1813
Mower	J. F. Steward	554,010	Feb. 4	374	82, 63	74	574
Mower grass-carrier. Lawn	R. F. Krause	558,731	Apr. 21	2138	515	75	435
Mower handle attachment. Lawn	E. W. McGuire	561,426	June 2	654	160	75	1494
Mower. Lawn	A. Blaubach	571,550	Nov. 17	1993	474	77	1050
Mower. Lawn	A. J. Bluntach	561,479	June 2	740	182	75	1510
Mower. Lawn	H. Deck	570,699	Nov. 3	523	122	77	736
Mower. Lawn	T. Johnston	566,911	Sept. 1	300	70	76	1340
Mower. Lawn	S. W. Martin	560,514	May 19	2131	487	75	1142
Mower. Lawn	E. W. McGuire	554,081	Feb. 4	508	114	74	598
Mower. Lawn	E. Schreffler	568,146	Sept. 22	2496	600	76	1787
Mowers. Clover-harvester attachment for	W. M. Bond	558,478	Apr. 21	1713	414	75	357
Mowing and reaping machine. Cutting apparatus for	L. Miller	552,665	Jan. 7	986	77	74	55
Mowing apparatus. Hay	T. J. Morey	573,679	Dec. 22	2879	680	77	1878
Mowing-machine	H. M. Deming	553,779	Jan. 28	2299	545	74	474
Mowing-machine	P. F. Hodges	554,601	Feb. 11	1413	331	74	784
Mowing-machine	J. F. Steward	563,815	July 14	987	234	76	201
Mowing-machine bunching attachment	C. T. Boyer	558,032	Apr. 14	943	233	75	195
Mowing-machine bunching attachment	C. T. Boyer	558,149	Apr. 14	1138	278	75	233
Mowing-machine bunching attachment	C. T. Boyer	558,150	Apr. 14	1140	278	75	233
Mucilage	J. A. Link	565,361	Aug. 4	749	76	756	
Mucilage-holder	A. Bühler	565,328	Aug. 4	693	166	76	744
Mucilage-receptacle	J. N. Williams	558,245	Apr. 14	1303	318	75	263
Mucilage receptacle or can	W. E. Lawrence	560,725	May 26	2551	586	75	1236
Mud-guard. Foldable	A. F. Fox	558,377	Apr. 14	1523	374	75	305
Muff	G. F. Wilhelm	566,042	Aug. 25	3028	740	76	1241
Muffle-furnace	J. Fürbringer	560,157	May 12	1487	336	75	977
Muffle or heater. Electrical	L. E. Custer	569,911	Oct. 20	2089	497	77	421
Muffler. Engine	E. Prouty	570,502	Nov. 3	121	30	77	661
Muffler. Exhaust	C. Löper	556,427	Mar. 17	1731	402	74	1486
Muffler. Neck and ear	M. E. Wiggin	561,186	June 2	208	50	75	1407
Mug. Shaving	B. G. Savage and A. C. L. Loughran	573,240	Dec. 15	2029	486	77	1701
Mules. Belt-shifting device for self-acting	E. P. Colby	556,918	Mar. 24	2565	604	74	1658
Multicolored screen	J. W. McDonough	561,686	June 9	1113	265	75	1605
Multiphase distribution system	R. D. Mershon	566,359	Mar. 17	1605	375	74	1462
Multiphase generator. Compound-wound	C. P. Steinmetz	563,427	July 7	328	74	76	64
Multiple drill	A. J. Oehring	560,171	May 12	1516	342	75	981
Multiple-series controller	J. F. McElroy	570,878	Nov. 3	836	194	77	795
Music-book leaves. Apparatus for turning	E. R. Steiner	568,049	Sept. 22	2302	558	76	1751
Music-box	F. J. Bernard	572,950	Dec. 15	1522	364	77	1606
Music-box	C. H. R. Bock	555,757	Mar. 3	457	109	74	1212
Music-box	J. Bornand	574,299	Dec. 29	4029	957	77	2102
Music-box	O. P. Lochmann	573,018	Dec. 15	1633	392	77	1628
Music-box	W. F. Main	559,183	Apr. 28	2969	717	75	609
Music-box	P. T. A. Rodeck	559,608	May 5	440	104	75	768
Music-box	P. T. A. Rodeck	560,936	May 26	2938	675	75	1310
Music-box	A. Vernaz	557,349	Mar. 31	3337	801	74	1825
Music-box damper	F. J. Bernard	570,898	Nov. 10	876	204	77	829
Music-box damping device	H. Langfelder	560,415	May 19	1970	451	75	1114
Music-box regulator	F. J. Bernard	554,906	Feb. 18	1953	459	74	903
Music-cabinet	J. F. Barrows	574,057	Dec. 29	3556	49	77	2017
Music case or portfolio	E. F. Greene	554,060	Feb. 4	464	104	74	589
Music-chart	L. J. De Meules	554,172	Feb. 4	686	154	74	631
Music-chart	F. Mueller	569,509	Oct. 13	1364	320	77	273
Music-holder	H. Grodzik and F. C. Luethi	571,920	Nov. 24	2658	630	77	1194
Music-holder	W. D. Henderson	565,897	Aug. 18	1730	424	76	975
Music-holder	E. J. Leach and W. G. Bryant	556,579	Mar. 17	1998	466	74	1535
Music holder and turner	F. M. Stacy	569,726	Oct. 20	1786	424	77	366
Music holder and turner	W. Stevenson	558,225	Apr. 14	1272	311	75	257
Music holder and turner	M. L. W. Zingerman	573,749	Dec. 22	2991	709	77	1899
Music holder, folder, and stand	W. Wholton	554,161	Feb. 4	663	149	74	626
Music-holder for pianos, &c.	H. Pepper	556,064	Mar. 10	1035	247	74	1340
Music-indicator	M. and I. J. Morgan	561,805	June 9	1332	319	75	1647
Music-leaf holder and turner	W. H. Spence	558,997	Apr. 28	2602	633	75	540
Music-leaf turner	P. H. Adams	553,746	Jan. 28	2251	533	74	464
Music-leaf turner	G. W. Farmer	561,778	June 9	1293	311	75	1639

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Music-leaf turner	T. A. Farrell	574,244	Dec. 29	3942	937	77	2086
Music-leaf turner	W. H. Frye	559,375	May 5	42	10	75	688
Music-leaf turner	F. T. Joyce	558,496	Apr. 21	1743	423	75	362
Music-leaf turner	J. Reigart	565,031	Aug. 4	122	29, 30	76	641
Music-leaf turner	J. C. Stinson	563,088	June 30	3591	{ 860 861 }	75	2129
Music-leaf turner	J. J. Walsh	565,308	Aug. 4	664	160	76	738
Music-leaf-turning machine	M. M. Boothman and G. W. Bushong	559,355	May 5	8	3	75	682
Music-rack	W. T. Bolger	567,072	Sept. 1	600	140	76	1396
Music-rack for musical-instrument cases	J. A. Weser	560,248	May 19	1668	380	75	1061
Music-rolls. Apparatus for producing	J. B. Tracy	570,352	Oct. 27	2921	694	77	590
Music-sheet driving-gear	F. E. P. Ehrlich	559,773	May 5	730	{ 174 175 }	75	820
Music-stand	C. Stickney	564,397	July 21	2038	478	76	407
Music-turner	L. Carter and E. Kemble	562,886	June 30	3211	776	75	2052
Music-writing machine	R. M. Saint	572,571	Dec. 8	849	{ 203 204 }	77	1459
Musical box	J. Billon-Haller	564,775	July 28	2690	{ 639 640 }	76	543
Musical box	F. H. Sander	565,093	Aug. 4	246	60	76	662
Musical figure	D. K. Marshall	569,219	Oct. 13	866	204	77	181
Musical hoop	J. H. Milledge	572,555	Dec. 8	814	195	77	1449
Musical instrument	F. Barrientos	567,447	Sept. 8	1265	306	76	1528
Musical instrument	S. Blacketer	552,862	Jan. 7	674	164	74	127
Musical instrument	F. P. Cericola	567,079	Sept. 1	612	{ 142 143 }	76	1398
Musical instrument	C. Clements-Kropp	572,550	Dec. 8	804	193	77	1447
Musical instrument	G. T. Craig	569,707	Oct. 20	1756	417	77	360
Musical instrument	L. K. Dathan	566,146	Aug. 18	2183	531	76	1063
Musical instrument	G. A. Fullerton	557,661	Apr. 7	256	62	75	48
Musical instrument	H. E. Hibshman	572,010	Nov. 24	2804	661	77	1222
Musical instrument	A. H. Merrill	555,651	Mar. 3	296	70	74	1183
Musical instrument	N. Merrill	553,653	Jan. 28	2097	495	74	434
Musical instrument	N. Merrill	559,302	Apr. 28	3187	771	75	649
Musical instrument	R. W. Pain	558,562	Apr. 21	1839	{ 447 448 }	75	382
Musical instrument	D. H. Rowe	556,519	Mar. 17	1908	444	74	1519
Musical instrument	C. L. Weser	560,665	May 26	2452	{ 562 563 }	75	1217
Musical instrument	J. A. Weser	570,582	Nov. 3	275	68	77	689
Musical instrument	H. D. B. Williams	569,777	Oct. 20	1878	446	77	382
Musical instrument	B. E. Wollenhaupt	563,113	June 30	3630	870	75	2137
Musical instrument	B. E. Wollenhaupt	572,392	Dec. 1	557	131	77	1384
Musical instrument. Automatic	T. A. Macaulay	564,384	July 21	2014	{ 473 474 }	76	401
Musical instrument. Automatic	T. A. Macaulay	564,385	July 21	2019	474	76	402
Musical instrument. Automatic	T. A. Macaulay	564,386	July 21	2021	475	76	403
Musical instrument. Automatic	T. A. Macaulay	564,387	July 21	2022	475	76	403
Musical instrument. Automatic	A. Richter	560,283	May 19	1734	{ 394 395 }	75	1073
Musical instrument. Automatically-operated stringed	W. S. Reed	558,419	Apr. 14	1593	389	75	317
Musical-instrument bridge	G. R. Stebbins	558,619	Apr. 21	1944	472	75	400
Musical instrument. Composite	W. Langenfeld	561,004	May 26	3034	{ 698 699 }	75	1328
Musical instrument. Electrically-operated stringed	W. H. Gilman	565,739	Aug. 11	1453	{ 354 355 }	76	906
Musical instrument. Mechanical	F. L. Bauer	553,384	Jan. 21	1623	386	74	332
Musical instrument. Mechanical	P. Ehrlich	566,150	Aug. 18	2189	532	76	1064
Musical instrument. Mechanical	M. O. Claus, T. B. Püttmann, and H. E. C. Felix	574,240	Dec. 29	3936	936	77	2024
Musical instrument. Mechanical	H. F. Hambruch	555,159	Feb. 25	2414	572	74	1004
Musical instrument. Mechanical	T. B. Püttmann and M. O. Claus	563,800	July 14	960	228	76	197
Musical instrument. Mechanical	E. P. Riessner	569,233	Oct. 13	893	{ 213 214 }	77	186
Musical instrument. Mechanical	W. H. Rollins	563,415	July 7	301	69	76	60
Musical instrument. Mechanical	O. Sorgan	572,458	Dec. 1	656	155	77	1403
Musical instrument. Mechanical	W. B. Tremaine and R. W. Pain	552,796	Jan. 7	546	{ 133 134 }	74	103
Musical instrument or toy. Resonant	W. H. Frost	552,612	Jan. 7	189	52	74	37
Musical-instrument plectrum	A. J. Gery and R. Dolge	558,797	Apr. 21	2255	545	75	457
Musical-instrument sounding post	A. Renner, Jr.	563,689	July 7	764	180	76	143
Musical-instrument spur-wheel	P. B. T. Berner	568,292	Sept. 22	2734	{ 656 657 }	76	1833
Musical-instrument stop-indicator	H. B. Tremaine	572,666	Dec. 8	1015	245	77	1491
Musical instrument. Stringed	G. A. Fullerton	557,662	Apr. 7	257	62	75	49
Musical instrument. Stringed	W. Robinson	561,915	June 9	1516	367	75	1681
Musical instrument. Stringed	H. Snowman	568,376	Sept. 29	2881	{ 692 693 }	76	1875
Musical-instrument tailpiece	J. Murdock, Jr.	558,699	Apr. 21	2090	505	75	426
Musical instruments. Apparatus for sounding stringed	A. Heine	571,763	Nov. 24	2372	566	77	1141
Musical instruments. Brace for necks of	S. Kelly and T. Moore	557,277	Mar. 31	3212	770	74	1800
Musical instruments. Checking device for sprocket- wheels of	A. Vernaz	558,442	Apr. 14	1645	395	75	329
Musical instruments. Device for adjusting sprocket- wheels in	A. Vernaz	565,649	Aug. 11	1294	312	76	876
Musical instruments. Distention-valve for	H. F. Henry	572,799	Dec. 8	1259	304	77	1536
Musical instruments. Center perforations of note-plates. Means for making sprocket-wheels of	A. Vernaz	565,650	Aug. 11	1296	313	76	876
Musical instruments. Fastener for tailpieces of	O. H. Lehmann	569,647	Oct. 20	1630	385	77	339
Musical instruments. Mouthpiece for	W. E. Leeder	556,757	Mar. 24	2296	539	74	1608
Musical instruments. Note projection for	F. Schaub	567,007	Sept. 1	485	112	76	1373
Musical instruments. Note-sheet for mechanical	A. Richter	560,540	May 19	2166	495	75	1149

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & T.	Vol.	Page.
Musical instruments. Pneumatic action for	H. C. Reichardt	558,985	Apr. 28	2582	628	75	536
Musical instruments. Pneumatic action for	H. C. Reichardt	568,278	Sept. 22	2714	651	76	1824
Musical instruments. Resonator for stringed	D. Mayer	561,903	June 9	1502	363	75	1679
Musical instruments. Sound-intensifying device for	J. B. Knittel	567,480	Sept. 8	1321	318	76	1534
Musical instruments. String-fastening for sound- ing-boards of	G. Goodwin	572,677	Dec. 8	1033	251	77	1495
Musical instruments. Tempo indicator and governor for	J. H. Chase	571,746	Nov. 24	2341	560	77	1135
Musical instruments. Tremolo attachment for stringed	C. E. Pryor	561,436	June 2	672	165	75	1497
Musical instruments. Trimmer for reeds of	C. Meister	555,962	Mar. 10	829	196	74	1305
Musical machine	J. Baumgartner	572,287	Dec. 1	352	84	77	1346
Musical performers. Support for	E. Vinbrux and C. O. Sobinski	564,667	July 23	2496	590	76	509
Musical sounds by electricity. Apparatus for pro- ducing	G. Breed	560,679	May 26	2475	568	75	1221
Musk. Artificial	A. Baur	560,771	May 26	2637		75	1252
Musk. Making artificial	A. Müller-Jacobs	559,783	May 5	746		75	823
Mustache-guard	C. Brunn	553,836	Feb. 4	28	7	74	510
Mustache-guard	J. E. a Dal.	561,868	June 9	1446	348	75	1668
Mustache-guard	A. Vandersall	562,440	June 23	2419	587	75	1885
Mustache-guard	P. B. Wermann and J. H. C. F. Weber	555,140	Feb. 25	2388	567	74	999
Muzzle. Animal	J. F. Hayes	561,051	May 26	3115	718	75	1344
Nail: See Heel-nail. Sole-nail. Horseshoe-nail.							
Nail	C. Hatch, Jr.	570,633	Nov. 3	398	94	77	711
Nail-distributor	F. F. Raymond, 2d	561,610	June 9	984	236	75	1582
Nail distributing and driving machine	F. F. Raymond, 2d	571,499	Nov. 17	1903	{ 453 454 }	77	1034
Nail-distributing machine	F. F. Raymond, 2d	566,337	Aug. 25	2494	{ 611 612 613 }	76	1140
Nail-extractor	T. C. Creighton	569,958	Oct. 20	2182	518	77	438
Nail-feeding device	F. F. Raymond, 2d, and C. H. Fogg	569,518	Oct. 13	1380	{ 324 325 326 }	77	276
Nail-feeding device	F. F. Raymond, 2d, and C. H. Fogg	571,931	Nov. 24	2673	{ 633 634 }	77	1198
Nail making and driving machine	H. Weeks	566,358	Aug. 25	2544	{ 621 622 }	76	1148
Nail-package	A. Newton	572,061	Nov. 24	2896	{ 683 684 }	77	1239
Nail-setting machine	E. H. Wright and J. H. Carmichael	564,815	July 23	2755	{ 655 656 }	76	554
Nail-strip	F. F. Raymond, 2d	569,886	Oct. 20	2044	487	77	412
Nail-strips. Machine and die for forming	S. M. Cutter	561,206	June 2	234	56	75	1412
Nail-strips. Machine for forming	J. A. Horton	554,931	Feb. 18	1993	{ 471 472 473 }	74	910
Nails. Die for making screw	C. D. Rogers	553,262	Jan. 21	1407	{ 342 343 }	74	293
Nails. Machine for making wire	C. Schultze	556,589	Mar. 17	2013	470	74	1538
Nailing device. Blind	N. Brunes	554,908	Feb. 18	1956	{ 460 462 463 464 }	74	903
Nailing-machine	H. H. Buffum	562,703	June 23	2852	{ 692 693 694 }	75	1906
Nailing-machine	J. B. Flint	555,314	Feb. 25	2696	{ 631 632 }	74	1057
Nailing-machine	J. B. Flint and A. J. Howard	562,597	June 23	2690	650	75	1935
Nailing-machine	L. Goddu	563,478	July 7	413	96, 97	76	79
Nailing-machine	L. Goddu	565,074	Aug. 4	196	49	76	654
Nailing-machine	G. Gruendel	553,572	Mar. 3	147	35, 36	74	1157
Nailing-machine. Gang	F. F. Raymond, 2d	561,609	June 9	979	{ 234 235 }	75	1581
Name-plate for bicycles, &c.	A. R. Geoffroy	573,870	Dec. 29	3211	764	77	1954
Naphtha from oil. Process of and apparatus for ex- tracting	G. F. Metzger	563,391	July 7	260	58, 59	76	52
Naphtha from oil. Process of and apparatus for sepa- rating	G. F. Metzger	563,866	July 14	1092	{ 257 258 }	76	220
Napkin-holder	W. Bower	553,833	Feb. 4	23	7	74	509
Napkin-holder	N. F. Clarkson	563,566	July 7	567	131	76	106
Napkin-holder	A. Dormitzer	559,517	May 5	286	62	75	737
Napkin-holder	N. P. Horton	570,802	Nov. 3	695	159	77	767
Napkin holder and ring. Combined	H. C. O. Huss	559,289	Apr. 28	3172	{ 765 766 }	75	646
Napping-machine. Compound	L. Clarenbach, Jr.	559,997	May 12	1189	264	75	922
Near-sightedness. Device for treating	C. Dion	570,279	Oct. 27	2753	655	77	560
Neck-protector	E. E. Carlton	569,540	Oct. 13	1409	333	77	283
Neck-scarf	W. A. Compton	556,135	Mar. 10	1155	271	74	1363
Neck-shield	C. Stottmeister	561,737	June 9	1212	287	75	1625
Necktie	P. Camillo	552,818	Jan. 7	604	147	74	113
Necktie	G. Carlson	560,686	May 26	2491	571	75	1225
Necktie	M. Jacobowitz	569,498	Oct. 13	1336	315	77	268
Necktie	A. J. Keck	573,467	Dec. 22	2486	589	77	1803
Necktie	G. Kraus	565,283	Aug. 4	625	148	76	731
Necktie	G. F. Magrane	553,759	Jan. 28	2273	538	74	468
Necktie	B. Mercer	557,591	Apr. 7	112	28	75	22
Necktie-bands. Elastic attachment for	J. Baumgarten	556,729	Mar. 24	2233	521	74	1597
Necktie-fastener	C. Molé	565,087	Aug. 4	236	57	76	660
Necktie-fastener	W. W. Waterbury	573,733	Dec. 22	2969	703	77	1895
Necktie-fastener	C. J. Wezen and J. E. Reynolds	560,290	May 19	1743	397	75	1074
Necktie-holder and collar-clasp	A. McDowell	566,215	Aug. 18	2292	561	76	1085
Necktie-retaining device	L. Weishan	561,549	June 2	871	210	75	1535
Necktie-turning machine	J. F. Keating	555,170	Feb. 25	2435	577	74	1008

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Neckwear, &c. Length-adjusting device for	F. O. Ward	560,308	May 19	1780	405	75	1079
Needle	C. W. Stinson	559,108	Apr. 28	2800	677	75	580
Needle	J. Zimmermann	570,590	Nov. 3	293	72	77	693
Needle-slabbing machine	P. M. Beers	570,367	Oct. 27	2941	698 699 700	77	594
Needle-swaging machine	P. M. Beers	568,472	Sept. 29	3038	729 730	76	1905
Needle-threader	T. A. Somdal	553,080	Jan. 14	1079	263	74	216
Needles. Making split	E. Strain	568,418	Sept. 29	2952	709	76	1889
Net and cover. Horse fly	H. C. Carter	567,078	Sept. 1	611	142	76	1398
Net. Fish and crab	D. H. Hibbert	563,486	July 7	428	99	76	82
Net. Folding minnow	E. Breeding	572,785	Dec. 8	1237	299	77	1532
Net holder. Fly	C. F. Stoner and J. M. Martin	562,983	June 30	3394	816	75	2002
Net-lifting device	J. W. Atwood	572,399	Dec. 1	568	134 135	77	1386
Net-lifting machine	W. F. Ahearn	571,033	Nov. 10	1104	258	77	872
Net-making machine	S. H. Roberts	565,292	Aug. 4	567	130 131	76	718
Net-making machine	M. Woschyllo	560,560	May 19	2210	505	75	1155
Netting and device for making same. Double-knot.	W. Stuart	562,676	June 23	2807	682	75	1958
Newspaper-box	A. R. Stone	562,933	June 30	3292	795	75	2070
Newspaper-clip	M. H. Mann	561,410	June 2	614	153	75	1486
Newspaper-holder	C. E. Dunshee	569,553	Oct. 13	1439	339	77	287
Newspaper-holder	L. G. Wade	566,254	Aug. 18	2347	575	76	1096
Newspaper-rack	J. A. Dawson	572,336	Dec. 1	440	104	77	1363
Nickel and cobalt. Manufacturing	P. Manhes	574,068	Dec. 29	3573		77	2030
Nickel from ferro-nickel anodes. Electroplating pure.	D. H. Browne	559,255	Apr. 28	3118	753	75	637
Nippers	W. F. Hanse	556,053	Mar. 10	1008	240	74	1336
Nippers	J. L. Scours	573,548	Dec. 22	2619	622	77	1827
Nipple	S. R. King	566,988	Sept. 1	452	105	76	1367
Nipple for receivers. False	J. H. Thurston	566,881	Sept. 1	246	56	76	1329
Nipple-holder	W. Lee	573,013	Dec. 15	1627	391	77	1636
Nipple-making machine	W. C. and F. E. Wells	569,902	Oct. 20	2076	494	77	419
Nitrites. Making	L. G. Paul	572,819	Dec. 8	1290		77	1542
Nitro compound	W. F. Reid and E. J. V. Earle	568,877	Oct. 6	282		77	54
Non-conducting covering	A. Lantzeke	563,775	July 14	915	218	76	187
Non-halation plate	E. Wuestner	566,111	Aug. 18	2125	517	76	1053
Noodle-cutting machine	F. Kahler	559,713	May 5	604	145	75	797
Nose-bag	C. E. Burbank	558,350	Apr. 14	1471	361	75	295
Nose-ringer	W. S. Taylor	557,719	Apr. 7	343	81	75	66
Note-disk holder	O. P. Lochmann	573,017	Dec. 15	1632	392	77	1628
Nozzle	W. A. Swift and W. W. Stewart	573,721	Dec. 22	2947	697	77	1890
Nozzle	D. W. Webster	563,630	July 7	663	155	76	124
Nozzle	R. Wise	561,069	May 26	3142	725	75	1349
Nozzle and seal	R. E. and U. D. Alexander	555,032	Feb. 18	2176	519	74	942
Nozzle attachment. Sprinkler	L. L. Ordner	574,073	Dec. 29	3579	855	77	2021
Nozzle. Convertible spray and jet.	T. L. Murphy	555,061	Feb. 18	2244	536	74	954
Nozzle. Distributing or spray	J. Buchtel	568,659	Sept. 29	3415	816	76	1974
Nozzle. Exhaust	J. H. Earl	564,477	July 21	2168	507	76	430
Nozzle. Exhaust	C. M. Marshall	560,561	Oct. 13	1457	344	77	291
Nozzle. Hydraulic	F. M. Bookwalter	566,736	Sept. 1	8	2	76	1282
Nozzle. Self-closing	A. J. Knight	565,211	Aug. 4	486	115	76	706
Nozzle. Shield	W. F. Cunningham	563,454	July 7	368	85	76	71
Nozzle. Spray	W. Binford	571,940	Nov. 24	2692	637	77	1202
Nozzle. Spray	P. J. Haas	555,573	Mar. 3	151	38	74	1158
Nozzle. Spray	J. D. Shoots	567,925	Sept. 15	2048	492	76	1693
Nozzle. Spray	C. W. Storm	562,863	June 30	3163	766	75	2043
Nozzle. Spraying	E. A. and C. Benedict	564,500	July 21	2199	516	76	436
Nozzle. Spraying	W. L. Deming	557,977	Apr. 7	803	192	75	152
Nozzle. Sprinkling	C. F. Van Camp	564,906	July 28	2895	694	76	581
Nozzle. Watering-cart	J. L. Stahl and F. B. Allen	561,065	May 26	3137	724	75	1348
Numbering-head	O. Bartusch	573,175	Dec. 15	1914	459	77	1681
Numbering-head	J. H. Reinhardt	561,946	June 9	1573	382	75	1692
Numbering-machine	C. De Leon	571,487	Nov. 17	1875	447	77	1029
Numbering-machine	F. Sanders	561,818	June 9	1356	324	75	1650
Numbering-machine. Rotary	F. Meisel and H. C. Fischer	558,405	Apr. 14	1568	382 383 383	75	312
Nursery-chair	G. W. Gable	568,134	Sept. 22	2475	593 594	76	1783
Nursery-chair	N. K. Nelsen	572,271	Dec. 1	318	76	77	1140
Nursery-gate	S. C. Holmer	569,642	Oct. 20	1622	382	77	337
Nut	M. A. Clennam	572,743	Dec. 8	1164	280	77	1519
Nut	O. Paquette	561,913	June 9	1514	366	75	1681
Nut and bolt lock	T. W. Murphy	563,201	June 30	3785	907	75	2166
Nut and bolt lock	A. N. Woodward	566,050	Aug. 18	2010	487	76	1033
Nut and lock-nut. Combined	A. Mosley	559,782	May 5	746	179	75	823
Nut and pipe wrench. Combined	E. H. Smith	560,438	May 19	2016	461	75	1122
Nut-blank and machine for making same	S. Vanstone	566,634	Aug. 25	3015	737	76	1239
Nut-blank machine	G. B. Lamb	560,857	May 26	2793	641	75	1283
Nut cracking and feeding machine. Combined	H. C. Pfeiffer	563,308	July 7	126	30, 31	76	27
Nut for vehicles. Axle	J. E. Lewis	569,215	Oct. 13	861	203	77	180
Nut. Grip	J. B. Oliver and H. Crehan	569,659	Oct. 20	1646	388	77	342
Nut-lock	A. J. Bennett	565,827	Aug. 11	1599	391	76	903
Nut-lock	L. M. Cunningham	571,721	Nov. 17	2274	546	77	1103
Nut-lock	C. T. and A. De Graffenried	573,397	Dec. 15	2314	553	77	1753
Nut-lock	J. Dickason	553,780	Jan. 28	2299	545	74	474
Nut-lock	O. S. Ebert	571,066	Nov. 10	1155	270	77	882
Nut-lock	E. W. Edwards	573,840	Dec. 22	3146	749	77	1928
Nut-lock	S. A. Eisele	570,917	Nov. 10	908	211	77	836
Nut-lock	J. A. Ensley	561,776	June 9	1290	310	75	1639
Nut-lock	E. Fluehr	570,789	Nov. 3	670	154	77	762
Nut-lock	W. H. Fossett	573,776	Dec. 22	3028	717	77	1906
Nut-lock	A. Fougere	567,267	Sept. 8	938	224	76	1468

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Nut-lock.....	J. B. Funkhouser.....	559,696	May 5	583	137	75	793
Nut-lock.....	H. Gamble.....	560,028	May 12	1249	280	75	931
Nut-lock.....	J. P. Gamble.....	562,600	June 23	2695	651	75	1936
Nut-lock.....	J. C. Gentry.....	561,259	June 2	308	78	75	1428
Nut-lock.....	D. Gibbons.....	558,739	Apr. 21	2259	545	75	457
Nut-lock.....	J. M. Gilmore.....	569,098	Oct. 6	656	152	77	125
Nut-lock.....	T. Hand.....	571,661	Nov. 17	2169	521	77	1083
Nut-lock.....	A. J. Harrell.....	570,551	Nov. 3	213	56	77	677
Nut-lock.....	W. Harrison.....	565,077	Aug. 4	203	50	76	655
Nut-lock.....	J. C. Holloway.....	564,750	July 28	2652	630	76	536
Nut-lock.....	W. Hudson.....	562,829	June 30	3104	752	75	2032
Nut-lock.....	J. H. Maloney.....	564,289	July 21	1858	435	76	374
Nut-lock.....	J. Martin.....	573,022	Dec. 15	1639	394	77	1629
Nut-lock.....	J. J. McArdle.....	556,102	Mar. 10	1095	261	74	1352
Nut-lock.....	H. L. McCann.....	574,256	Dec. 29	3960	941	77	2089
Nut-lock.....	C. J. McCloskey.....	558,658	Apr. 21	2012	487	75	412
Nut-lock.....	S. W. R. Mitchell.....	565,911	Aug. 18	1771	431	76	985
Nut-lock.....	W. C. Nones.....	574,213	Dec. 29	3882	924	77	2074
Nut-lock.....	O. A. Norlund.....	570,101	Oct. 27	2434	578	77	500
Nut-lock.....	J. S. Oakley.....	565,142	Aug. 4	361	84	76	684
Nut-lock.....	T. Oldroyd.....	569,423	Oct. 13	1216	267	77	246
Nut-lock.....	G. W. Packer.....	555,396	Feb. 25	2833	667	74	1083
Nut-lock.....	J. G. Perry.....	561,604	June 9	974	232	75	1579
Nut-lock.....	C. T. Redfield.....	571,286	Nov. 10	1540	365	77	953
Nut-lock.....	F. Reessing.....	556,642	Mar. 17	2089	489	74	1552
Nut-lock.....	J. O. Richards.....	557,230	Mar. 31	3117	747	74	1780
Nut-lock.....	C. Rohrbach.....	559,464	May 5	200	44	75	720
Nut-lock.....	H. R. Rowland.....	563,416	July 7	303	89	76	60
Nut-lock.....	T. Seely.....	573,044	Dec. 15	1676	403	77	1637
Nut-lock.....	G. Smith.....	553,435	Jan. 21	1706	407	74	347
Nut-lock.....	T. E. Somerville.....	568,416	Sept. 29	2949	708	76	1888
Nut-lock.....	L. D. Spragg.....	559,629	May 5	478	110	75	774
Nut-lock.....	M. L. Suggs.....	565,942	Aug. 18	1826	443	76	996
Nut-lock.....	O. P. Swanson.....	573,800	Dec. 22	3066	726	77	1913
Nut-lock.....	J. M. Thompson.....	574,287	Dec. 29	4016	953	77	2100
Nut-lock.....	W. Turner.....	570,354	Oct. 27	2926	695	77	591
Nut-lock.....	J. D. Tynes.....	558,440	Apr. 14	1642	395	75	328
Nut-lock.....	J. P. Van Derveer.....	572,460	Dec. 1	659	155	77	1404
Nut-lock.....	J. E. Ward.....	571,871	Nov. 24	2560	606	77	1176
Nut-lock.....	J. H. Wiestner.....	560,554	May 19	2203	503	75	1154
Nut-lock.....	C. H. Crosthwaite.....	565,842	Aug. 11	1625	398	76	938
Nut-lock.....	R. Larter.....	556,682	Mar. 17	2150	502	74	1564
Nut-lock.....	E. Thiange.....	561,923	June 9	1531	371	75	1684
Nut-lock, Axle.....	O. S. Ebert.....	571,067	Nov. 10	1156	270	77	882
Nut-lock washer.....	A. L. Mills.....	560,042	May 12	1278	287	75	938
Nut-locks. Means for unlocking.....	J. G. Landes.....	573,337	Dec. 15	2219	530	77	1735
Nut-reaming machine.....	O. P. Briggs.....	556,084	Mar. 10	1064	254	74	1346
Nut. Sectional.....	E. B. Brewer.....	561,758	June 9	1254	299	75	1633
Nut-threading machine.....	G. H. Webb and J. Clare.....	570,193	Oct. 27	2592	616	77	529
Nut wrench. Axle.....	F. J. Bourn and W. R. Hale.....	560,339	May 19	1831	416	75	1088
Nut wrench. Axle.....	T. G. Clifford.....	571,214	Nov. 10	1413	330	77	929
Nut wrench. Axle.....	J. Grannis.....	558,874	Apr. 21	2384	581	75	482
Nut wrench. Axle.....	W. E. Kleckner.....	570,933	Nov. 10	936	217	77	842
Nut wrench. Axle.....	H. C. Long.....	567,987	Sept. 22	2179	525	76	1729
Nuts. Machine for making coils for lock.....	T. Gare.....	561,579	June 9	930	222	75	1571
Nuts. Machine for manufacturing.....	J. H. Sternbergh.....	559,500	May 5	261	61, 62	75	732
Nuts, &c. Machine for shaping sleeve.....	J. Coyne.....	554,481	Feb. 11	1215	284 } 285 }	74	746
Nuts. Rubber cap for axle.....	J. F. Wynkoop.....	564,323	July 21	1911	451	76	383
Nuts. Tool for cleaning out.....	F. A. Rall.....	568,277	Sept. 22	2713	670	76	1828
Oar.....	T. Dunlap.....	560,980	May 26	2997	690	75	1321
Oar. Bow-facing.....	E. B. Cleaveland.....	562,510	June 23	2520	612	75	1904
Oar. Bow-facing.....	O. Shnicke.....	568,707	Sept. 29	3491	835	76	1989
Oar. Bow-facing and self-feathering.....	S. A. Tenney.....	557,318	Mar. 31	3282	787	74	1813
Oar-lock.....	T. N. Atkinson.....	558,023	Apr. 14	926	230	75	191
Oar-lock.....	A. Smith.....	553,141	Jan. 14	1186	258	74	238
Oar-lock.....	A. Stevenson.....	552,673	Jan. 7	301	81	74	58
Oar. Row-boat.....	J. Berron.....	562,369	June 23	2297	558	75	1862
Oculists and opticians. Instrument for use by.....	F. G. Ritchie.....	562,424	June 23	2380	579	75	1878
Oculist's testing-frame.....	G. W. Wells.....	555,195	Feb. 25	2482	586	74	1017
Office-indicator.....	A. Angell.....	571,325	Nov. 17	1608	382	77	981
Office-indicator.....	J. A. Day.....	557,194	Mar. 31	3063	734	74	1773
Office-indicator.....	C. L. McKesson.....	569,384	Oct. 13	1150	274	77	236
Office-indicator.....	J. A. Tobin.....	571,585	Nov. 17	2045	487	77	1060
Offset webs. Apparatus for handling.....	L. W. Southgate.....	560,945	May 26	2951	677	75	1312
Oil and gas motor engine.....	J. S., R. D., W. D., and H. C. Cun- dall.....	562,017	Sept. 22	2236	539 } 540 }	76	1739
Oil and steam separator.....	D. Cochrane.....	557,108	Mar. 31	2889	690	74	1744
Oil and water separator.....	E. Austin.....	555,553	Mar. 3	121	27	74	1152
Oil-burner.....	J. R. Armstrong.....	569,315	Oct. 13	1038	247	77	214
Oil-burner.....	A. J. Blackford. (Reissue).....	11,575	Nov. 24	3019	706 } 707 }	77	1260
Oil-burner.....	A. H. Calkins.....	559,994	May 12	1183	263	75	921
Oil-burner.....	C. W. Claybourne.....	562,576	June 23	2650	642	75	1929
Oil-burner.....	A. W. Welch.....	560,875	May 26	2833	648 } 649 }	75	1290
Oil burner. Automatic sight-feed crude.....	D. C. Wilgus.....	568,934	Oct. 6	364	84	77	70
Oil burner. Crude.....	T. J. Brough.....	552,813	Jan. 7	597	145	74	112
Oil-burning mechanism.....	C. W. Claybourne and M. Moore.....	572,866	Dec. 8	1356	328	77	1557
Oil-can.....	B. Briscoe.....	574,300	Dec. 29	4030	957	77	2103
Oil-can.....	W. A. Durrin.....	556,741	Mar. 24	2257	528	74	1601
Oil-can.....	A. Hitt.....	555,318	Feb. 25	2704	633	74	1058
Oil-can.....	J. H. Hulings.....	554,780	Feb. 18	1730	405	74	880
Oil-can.....	J. C. McCarthy.....	553,563	Jan. 28	1937	458	74	406

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Oil-can	J. H. McGinty	557,082	Mar. 24	2838	676	74	1713
Oil-can	B. Porter	554,306	Feb. 11	912	210	74	689
Oil-can	C. W. Proctor	558,207	Apr. 14	1235	301	75	250
Oil-can	D. True	553,726	Jan. 28	2219	526	74	458
Oil-can and torch. Combined	T. W. Kester	574,335	Dec. 29	4089	971	77	2114
Oil-can. Portable	J. Lines	554,941	Feb. 18	2011	476	74	913
Oil-carrying projectile	S. O'Day	560,747	May 26	2584	595	75	1243
Oil-catching device	J. H. Kriner	572,641	Dec. 8	974	235	77	1483
Oil-cleansing apparatus	D. W. Gould	553,710	Jan. 28	2183	518	74	451
Oil-cloth, &c., cutter	J. W. Lewis and S. E. Kochendarfer	552,845	Jan. 7	646	159	74	122
Oil-cup	C. G. Y. King	553,991	Feb. 4	345	76	74	568
Oil-cup	L. A. Peters	568,920	Oct. 6	344	80	77	66
Oil-cup	C. C. Tyler	553,971	Feb. 4	306	68	74	561
Oil-cup	W. H. Wilkinson	561,187	June 2	209	50	75	1407
Oil-cup	W. H. Wilkinson	567,182	Sept. 8	791	186	76	1443
Oil-cup	F. D. Winkley	552,737	Jan. 7	428	106	74	82
Oil. Device for separating gas and water from	B. Gilmore	554,598	Feb. 11	1410	330	74	764
Oil-dispensing apparatus	R. D. Guthrie	565,538	Aug. 11	1088	262	76	837
Oil-distributing apparatus	F. Caum	564,969	Aug. 4	12	3, 4	76	619
Oil-engine	G. J. Altham	564,576	July 21	2342	550 551 552	76	461
Oil-engine	G. J. Altham	564,577	July 21	2347	552 553 394	76	462
Oil-engine	T. von Querfurth	569,672	Oct. 20	1667	395	77	346
Oil engine. Petroleum	J. S. F. and E. Carter	552,686	Jan. 7	328	87	74	64
Oil-extracting apparatus	G. F. Metzger	566,406	Aug. 25	2637	614	76	1167
Oil-extracting apparatus	W. S. Pierce	556,065	Mar. 10	1036	247	74	1340
Oil-extracting apparatus	T. W. Young	567,434	Sept. 8	1243	300	76	1524
Oil for calming waves. Apparatus for distributing	D. Knowles	554,128	Feb. 4	611	138	74	616
Oil heater and illuminator. Combined	J. D. Humphrey	554,696	Feb. 18	1584	373	74	833
Oil-holder	D. M. Redmond	554,308	Feb. 11	917	211	74	690
Oil or gas burners. Heater for attachment to	H. H. Hallett	569,377	Oct. 13	1140	272	77	234
Oil or gasoline can	T. W. Alexander	566,723	Aug. 25	3166	775	76	1264
Oil. Paint	I. H. Swink	568,419	Sept. 29	2954		76	1869
Oil. Process of and apparatus for extracting	H. T. C. Kraus	569,208	Oct. 13	846	199 200	77	177
Oil purifier. Waste	R. Metz	572,020	Nov. 24	2818	665	77	1225
Oil. Refining	C. A. Smith	558,747	Apr. 21	2164	522	75	440
Oil. Refining cotton-seed	F. B. Aspinall	557,098	Mar. 31	2871	686	74	1741
Oil-saving attachment	G. N. Grow	560,986	May 26	3003	692	75	1322
Oil-separator	E. Austin	552,572	Jan. 7	117	32	74	24
Oil-separator	O. A. Darrow	569,016	Oct. 6	519	119	77	99
Oil-supply tank	F. R. Fennessy	558,643	Apr. 21	1983	481	75	407
Oil-tank	W. R. Parisen	560,105	May 12	1460	315	75	961
Oil tank and pump. Portable	L. W. Hemp	571,877	Nov. 24	2567	609	77	1177
Oil-wells. System for operating	G. Allen	569,157	Oct. 13	761	177	77	161
Oils. Process of and apparatus for oxidizing	F. Walton	557,457	Mar. 31	3518	840 841	74	1859
Oils. Refining hydrocarbon	G. M. Saybolt	565,039	Aug. 4	135		76	643
Oils. Refining petroleum or hydrocarbon	F. Berg	560,463	May 19	2055		75	1128
Oils. Sweetening	M. H. Smith	562,670	June 23	2800		75	1957
Oiler. Automatic	W. J. Ferguson	555,475	Feb. 25	2988	712	74	1111
Oiler. Floor	J. MacKenzie	564,707	July 28	2563	606	76	522
Oiler for shafting. Mechanical	G. H. Cole	553,512	Jan. 28	1838	436	74	388
Oiler or can. Locomotive valve	F. Young	565,129	Aug. 4	317	76	76	676
Oiling attachment	T. M. Anderson	556,608	Mar. 17	2040	478	74	1543
Oiling box. Self	D. L. Altman	553,147	Jan. 14	1194	290	74	240
Oiling device for trolley-wheels	A. W. Gabrio	567,783	Sept. 15	1822	437	76	1649
Oiling device for vehicle axles and wheels	A. C. Holt	569,045	Oct. 6	566	130	77	108
Oiling device. Wagon	J. P. Hicks	559,329	Apr. 28	3247	783	75	660
Ointment bases from raw wool-fat. Producing	F. Marohn	556,014	Mar. 10	929	221	74	1323
Open-hearth furnace	H. Aiken, F. W. Wood, and H. H. Campbell. (Reissue.)	11,572	Oct. 13	1534	359 360	77	305
Opera-chair	H. K. A. F. Von Spitzingen	565,807	Aug. 11	1567	382	76	927
Opera-glass	E. Bloch	565,596	Aug. 11	1196	287	76	857
Opera-glass	M. Moneyment	566,274	Aug. 18	2375	582	76	1101
Opera-glass and phone. Combined	G. J. Wainwright	574,124	Dec. 29	3678	877	77	2039
Opera-glass. Folding	D. J. Densmore and W. H. Briggs	567,890	Sept. 15	2004	481	76	1685
Opera-glass holder	B. H. Blank	567,215	Sept. 8	840	199	76	1452
Opera-glass holder	R. Wittmann	558,869	Apr. 21	2412	587	75	427
Opera-glass shield	S. Heyn	572,637	Dec. 8	968	233	77	1482
Opera-glasses	F. A. Hardy	572,540	Dec. 8	787	188	77	1443
Opera-glasses. Handle and phone attachment for	G. J. Wainwright	574,125	Dec. 29	3680	877	77	2039
Operating chair and table. Combined	J. F. Sell	562,428	June 23	2388	580 581	75	1860
Operating-table	R. Kny	555,380	Feb. 25	2807	660	74	1078
Ophthalmoscope	F. Knauer	563,717	July 7	809	193 194	76	151
Optical instruments to heads. Apparatus for attaching	J. Aitchison	553,146	Jan. 14	1193	290	74	239
Optical lantern	C. Goodyear, Jr	565,346	Aug. 4	727	173 174	76	751
Optical observations. Instrument for	E. Noetzel	554,294	Feb. 11	891	205	74	685
Orange-pulp remover	G. G. Bouton	562,372	June 23	2301	559	75	1863
Oranges, &c. Combined wrapping and sizing machine for	J. H. Goodbar	553,559	Jan. 28	1923	455 456 457	74	404
Ordering device. Household	F. Kees	560,505	May 19	2119	485	75	1140
Ordnance	M. Gledhill	566,679	Aug. 25	3090	754 755 202	76	1252
Ordnance breech mechanism	J. A. Deport	567,225	Sept. 8	854	203 204	76	1450

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Ordinance breech mechanism.....	M. Gledhill.....	565,163	Aug. 4	397	{ 83 84 95	76	691
Ordinance breech mechanism.....	M. Gledhill.....	565,164	Aug. 4	401	96, 97	76	691
Ordinance. Gas-operated.....	H. S. Maxim.....	567,604	Sept. 15	1527	367	76	1591
Ordinance. Hydraulic-brake apparatus for.....	J. A. Deport.....	565,607	Aug. 11	1211	291	76	859
Ore and metallurgy thereof. Separation of frank- linite.....	J. P. Wetherill.....	555,793	Mar. 3	507	123	74	1222
Ore-concentrator.....	J. O. Dimmick and E. K. Woods.....	554,914	Feb. 18	1966	{ 463 464 256 257	74	905
Ore-concentrator.....	W. G. Dodd.....	556,089	Mar. 10	1072	256	74	1348
Ore-concentrator.....	H. R. Ellis.....	552,519	Jan. 7	29	9	74	8
Ore-concentrator.....	J. W. Nesmith.....	558,978	Apr. 28	2572	625	75	534
Ore-concentrator.....	W. Rice and P. S. Farrar.....	554,143	Feb. 4	631	142	74	620
Ore-concentrator.....	C. E. Seymour.....	560,435	May 19	2008	{ 460 461	75	1121
Ore-concentrator.....	F. Soper.....	552,931	Jan. 14	834	202	74	170
Ore-concentrator.....	M. Stoddard.....	565,812	Aug. 11	1575	384	76	929
Ore-concentrator.....	H. P. Tobey and G. B. Thayer.....	560,552	May 19	2197	{ 501 502	75	1153
Ore-concentrator.....	L. R. Tulloch.....	561,629	June 9	1015	{ 243 244	75	1587
Ore-concentrator.....	J. B. Waring.....	556,567	Mar. 17	1975	461	74	1531
Ore-concentrator.....	J. Wennen and C. Hart.....	558,915	Apr. 21	2462	599	75	496
Ore-concentrator.....	W. E. Wild.....	568,888	Oct. 6	297	68	77	57
Ore-concentrator.....	F. J. Woods.....	570,243	Oct. 27	2689	639	77	548
Ore concentrator and separator. Dry.....	R. E. and E. Waugh and C. S. Older.....	570,831	Nov. 3	750	171	77	778
Ore-concentrator apparatus.....	J. S. Loder.....	553,560	Jan. 28	1933	457	74	405
Ore-concentrator feed mechanism.....	L. R. Tulloch.....	561,630	June 9	1017	244	75	1587
Ore-concentrators. Cleaning-roller for.....	W. H. Hooper.....	567,140	Sept. 8	727	170	76	1431
Ore-crusher.....	H. Gregory, Jr.....	558,803	Apr. 21	2263	548	75	458
Ore-crusher.....	J. Roger.....	554,377	Feb. 11	1029	{ 238 239	74	711
Ore-crusher.....	J. Roger.....	574,273	Dec. 29	3990	948	77	2095
Ore crushing and pulverizing machine.....	J. C. Wiswell.....	563,702	July 7	786	{ 187 188	76	147
Ore-crushing machine.....	E. P. Jones.....	563,181	June 30	3738	895	75	2157
Ore-crushing machinery.....	G. Johnston.....	559,779	May 5	742	178	75	822
Ore-crushing mill.....	S. M. Briggs.....	569,272	Oct. 13	956	229	77	198
Ore-crushing mill.....	H. P. Holland.....	557,529	Mar. 31	3653	875	74	1884
Ore-drier.....	J. P. Wetherill.....	560,876	May 26	2834	649	75	1291
Ore-drying apparatus.....	W. A. Koneman.....	560,855	May 26	2790	{ 639 640	75	1282
Ore-feeder.....	J. M. Bible.....	567,448	Sept. 8	1266	{ 306 307	76	1528
Ore-feeder.....	H. P. Holland.....	556,188	Mar. 10	1260	294	74	1382
Ore-jigging machine.....	W. Hooper.....	573,594	Dec. 22	2700	641	77	1844
Ore-leaching apparatus.....	S. B. Ladd.....	567,144	Sept. 8	731	171	76	1432
Ore-mill.....	S. K. Behrend and C. F. Weller.....	563,733	July 14	844	201	76	174
Ore-pulverizer.....	H. P. Holland.....	556,187	Mar. 10	1259	294	74	1381
Ore pulverizing and amalgamating machine.....	J. Manes.....	566,992	Sept. 1	458	106	76	1368
Ore-pulverizing machine.....	G. A. Cleveland.....	570,745	Nov. 3	603	{ 138 139	77	749
Ore-roaster.....	N. A. Stratton.....	565,813	Aug. 11	1577	384	76	929
Ore-roaster. Revolving.....	L. S. Austin.....	557,937	Apr. 7	724	174	75	137
Ore-roasting furnace.....	J. Roger.....	574,272	Dec. 29	3989	{ 947 948	77	2094
Ore-roasting furnace.....	C. E. Stockford.....	569,361	Oct. 13	1115	{ 265 266	77	229
Ore-sampler.....	S. I. Hallett.....	566,169	Aug. 18	2213	539	76	1069
Ore-sampler.....	T. A. Topham.....	563,101	June 30	3609	866	75	2133
Ore-sampling machine.....	D. W. Brunton.....	553,508	Jan. 28	1832	435	74	387
Ore-scouring apparatus.....	W. A. Koneman.....	560,856	May 26	2792	{ 640 641	75	1283
Ore-separator.....	H. M. Copland.....	570,843	Nov. 3	773	176	77	782
Ore-separator. Magnetic.....	O. M. Graves.....	557,121	Mar. 31	2910	696	74	1749
Ore-separator. Magnetic.....	C. J. Reed.....	572,369	Dec. 1	502	118	77	1373
Ore-washer.....	C. H. Thomas.....	554,551	Feb. 11	1322	310	74	766
Ore washer and collector.....	J. W. Thompson.....	569,894	Oct. 20	2062	490	77	416
Ore washer and separator.....	C. F. Pike.....	566,533	Aug. 25	2878	{ 699 700 701	78	1211
Ore washer and separator.....	C. F. Pike.....	566,534	Aug. 25	2880	701	76	1212
Ores, &c. Apparatus for compressing and agglomer- ating roasted.....	J. W. Neill.....	570,947	Nov. 10	959	222	77	846
Ores, &c. Apparatus for concentrating, grading, or classifying crushed.....	W. H. Coward.....	574,241	Dec. 29	3936	936	77	2085
Ores. Apparatus for desulfurizing and condensing base-metal.....	S. A. Young.....	566,115	Aug. 18	2133	519	76	1054
Ores. Lead-bath apparatus for working.....	A. M. Shields.....	552,624	Jan. 7	205	57	74	40
Ores of lead and zinc. Treating complex.....	O. H. Picher.....	554,725	Feb. 18	1629	385	74	842
Ores. Process of and apparatus for roasting.....	W. A. Koneman.....	560,412	May 19	1961	{ 448 449	75	1112
Ores. Separating.....	T. A. Edison.....	564,423	July 21	2085		76	415
Ores. Treating.....	T. P. Barbour.....	571,468	Nov. 17	1838	498	77	1024
Organ.....	J. H. Chase.....	570,200	Oct. 27	2606	610	77	532
Organ.....	W. Schuelke.....	572,128	Dec. 1	60	15	77	1289
Organ.....	W. Schuelke.....	572,129	Dec. 1	64	15	77	1290
Organ.....	W. Schuelke.....	572,130	Dec. 1	67	15	77	1290
Organ action. Reed.....	A. L. White.....	559,014	Apr. 28	2633	641	75	546
Organ. Automatic.....	T. P. Brown.....	574,186	Dec. 29	3816	{ 911 912	77	2062
Organ-bellows and treadle-web clamp.....	J. U. Frye.....	562,386	June 23	2332	565	75	1867

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Organ bellows. Exhauster or feeder for musical.	J. H. Chase	568,310	Sept. 22	2764	665 666	76	1839
Organ-bench	L. K. Fuller	554,672	Feb. 18	1548	365	74	825
Organ octave-coupler	E. C. Lombard	557,843	Apr. 7	588	136	75	107
Organ-pipes. Machine for forming	H. Richardson	572,830	Dec. 8	1311	314	77	1547
Organ. Reed	W. S. Moses	574,040	Dec. 29	3522	841	77	2010
Organ. Reed	J. F. White	554,757	Feb. 18	1684	397 398	74	852
Organ-reed	J. Wojciechowski	568,124	Sept. 22	2456	589 590	76	1779
Organ-reed-tuning machine	C. N. Rand	573,103	Dec. 15	1789	430 431	77	1657
Organ-reeds. Machine for correcting	C. N. Rand	562,913	June 30	3254	785	75	2062
Organ-starting apparatus	I. H. Spencer	553,695	Jan. 28	2160	511	74	446
Organs. Insect or vermin guard for	F. M. Matthews	569,505	Oct. 13	1357	319	77	272
Organs. Mechanism for supplying air to bellows of church-	C. E. Angell	566,051	Aug. 18	2011	488	76	1033
Organs or harmoniums. Octave-coupler for reed	S. Jenkinson	568,686	Sept. 29	3460	827	76	1983
Organs. Wind-chest for pipe	P. Wirsching	560,559	May 19	2207	504 505	75	1155
Ornamental fabric	A. H. Karsheidt	558,186	Apr. 14	1201	293	75	244
Ornamental surfaces. Apparatus for producing	R. J. Chavez and C. C. Herman	573,206	Dec. 15	1971	475	77	1691
Orthohalogenphenol. Making	H. Baum	554,974	Feb. 18	2064		74	924
Oscillating engine	C. H. McCready	558,095	Apr. 14	1058	260	75	217
Oscillating-piston engine	B. H. Trucks	552,798	Jan. 7	554	134	74	105
Outlet-box	C. A. Mezger	564,443	July 21	2115	494	76	420
Outlet-box and fixture-support	C. O. Mailloux	562,633	June 23	2743	665 666	75	1946
Outlet or overflow	G. Frank	567,421	Sept. 8	1288	312	76	1532
Oven	J. H. Mitchell	558,654	Apr. 21	2006	485 486	75	411
Oven and stove. Baker's	F. S. Kinney	572,206	Dec. 1	189	46, 47	77	1314
Oven. Automatic bake	C. W. Hitchner	564,074	July 14	1478	346 347	76	290
Oven. Baker's	A. Bärenz	557,536	Apr. 7	8	2	75	4
Oven. Baker's	E. A. C. Petersen	569,799	Oct. 20	1913	454	77	388
Oven. Baking	G. Huebner	557,390	Mar. 31	3406	818	74	1838
Oven. Baking	J. L. W. Olsen	554,396	Feb. 11	1056	246 247	74	716
Oven. Baking	H. Werner and P. Pfeleiderer	566,639	Aug. 25	3023	739	76	1240
Oven. Baking and cooking	F. Heinemann	569,413	Oct. 13	1205	284	77	245
Oven-grate. Rotary	M. N. Weathers	567,179	Sept. 8	787	186	76	1443
Oven. Portable	F. M. Yanner and H. C. Pfeiffer	561,750	June 9	1237	293	75	1630
Oven. Portable bake	J. Ludwick and H. H. Amborn	564,798	July 28	2727	648 649	76	549
Oven-rack	J. Stubbers	556,908	Mar. 24	2549	600	74	1655
Oven. Rotary	G. Huebner	552,838	Jan. 7	638	156 157	74	120
Oven-shelf	F. O. Farwell	563,467	July 7	389	90	76	75
Oven shelf. Baking	C. R. Bonnett	557,759	Apr. 7	428	100 101	75	81
Oven. Steam bake	A. Spangler	564,116	July 14	1558	366	76	307
Oven. Waffle	D. M. Holmes	562,962	June 30	3365	809 810	75	2086
Ovens. Heat deflector and equalizer for	E. H. Huenefeld	563,928	July 14	1214	284	76	241
Overalls	M. O. Chandler	556,530	Mar. 17	1922	448	74	1521
Overalls	L. Goodman	564,373	July 21	1995	468	76	398
Overalls, &c	C. J. Raiffeisen	573,292	Dec. 15	2136	512	77	1720
Overalls	F. B. Swaim and J. G. Clark	563,092	June 30	3596	862	75	2130
Overflow-trap	F. A. Radcliffe	565,565	Aug. 11	1134	273	76	845
Overhead switch and hanger	P. F. Werner	571,607	Nov. 17	2083	500	77	1066
Overshoe	J. F. O'Brien	553,592	Jan. 28	1988	471	74	416
Overshoe-fastener	G. C. Poling	553,933	Feb. 4	245	53	74	550
Overshoe-fastener	M. St. John	570,347	Oct. 27	2912	691	77	588
Overshoe-retainer	F. F. Foster	554,174	Feb. 4	689	155	74	631
Overshoes. Attachment for india-rubber	A. R. Pritchard	567,254	Sept. 8	910	218	76	1464
Oxybenzyl alcohol. Obtaining	L. Lederer	563,975	July 14	1299		76	256
Oyster-bed	D. H. Hibbert	566,757	Sept. 1	44	11, 12	76	1288
Oyster-dredger	N. Boudreaux	558,767	Apr. 21	2199	529 530	75	446
Oyster-tongs	F. Paschen	552,772	Jan. 7	494	122	74	93
Oyster-tongs	F. Paschen	567,791	Sept. 15	1832	439	76	1651
Ozone and luminosity by electricity. Apparatus for producing	E. Andreoli	565,952	Aug. 18	1846	449	76	999
Ozone-generating apparatus	M. Pridham	574,341	Dec. 29	4103	974 975	77	2116
Ozone-producing apparatus	N. Tesla	568,177	Sept. 22	2544	612	76	1796
Package	G. Pendleton, Jr.	571,928	Nov. 24	2669	632	77	1197
Package. Air-tight	M. Falk	571,112	Nov. 10	1256	292	77	899
Package-casing	J. J. Hoffman	561,112	June 2	60	16	75	1378
Package elevating and distributing apparatus	F. O. Matthiessen	552,716	Jan. 7	375	98, 99	74	73
Package-elevator	S. B. Peck	570,562	Nov. 3	242	61	77	683
Package-handle	A. W. Beers	556,877	Mar. 24	2498	589	74	1647
Package or packing-receptacle	F. P. McColl	566,998	Sept. 1	467	108 109	76	1370
Package. Powder	F. A. Heberline and J. Hartman	571,521	Nov. 17	1937	462	77	1041
Package. Sealed	O. S. Fellows	557,364	Mar. 31	3363	808	74	1830
Package. Sealed	O. S. Fellows	568,478	Sept. 29	3048	732	76	1096
Package. Sealed	O. S. Fellows	568,479	Sept. 29	3049	733	76	1906
Package. Sheet-metal	O. S. Fellows	568,477	Sept. 29	3047	732	76	1906
Packages. Device for opening sealed	O. S. Fellows	555,939	Mar. 10	785	188	74	1296
Packages. Device for opening sealed	O. S. Fellows	557,365	Mar. 31	3365	808	74	1830
Package-tie	J. Pusey	573,700	Dec. 22	2912	688	77	1884
Packing and display box	E. D. Severance	557,240	Mar. 31	3152	755	74	1789

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Packing and shipping box	J. T. Ferres	563,918	July 14	1193	281	76	238
Packing and snow case	J. Peterson	558,100	Apr. 14	1065	261	75	218
Packing and valve. Combined	W. E. Ellsworth	568,669	Sept. 29	3428	820	76	1977
Packing. Antifriction	L. A. Gruber	567,233	Sept. 8	869	208	76	1457
Packing-box. Sheet-metal	L. L. Lynn	560,140	May 12	1458	328	75	972
Packing-case	F. S. MacDonald	572,657	Dec. 8	999	241	77	1489
Packing-case for aromatic substances	C. M. Stephens	555,027	Feb. 18	2170	517	74	941
Packing-case for food products. Metal	L. H. Blanke	567,938	Sept. 15	2086	502	76	1699
Packing-case knockdown cell	M. Ams	564,357	July 21	1968	463	76	393
Packing cutting-gage	J. J. Fearon	563,579	July 7	584	136	76	109
Packing device	G. B. Garrison	555,764	Mar. 3	465	111	74	1214
Packing. Elastic-core semimetallic	A. Montgomery	557,855	Apr. 7	590	140	75	111
Packing for oil-well pumps	W. E. Karns	568,069	Sept. 22	2348	567	76	1758
Packing for piston and valve rods. Metallic	E. J. Armstrong	564,953	July 23	3000	714	76	600
Packing granulated or powdered substances. Machine for	C. J. Mattison	571,492	Nov. 17	1881	449	77	1031
Packing-machine	P. C. Larkin	567,145	Sept. 8	734	172	76	1433
Packing. Metallic	E. A. Bryant	563,445	July 7	356	82	76	69
Packing. Metallic	E. L. Raynsford	553,738	Jan. 28	2240	530 531	74	462
Packing. Metallic	F. E. Small	558,220	Apr. 14	1259	306 307	75	255
Packing. Metallic	D. Thomas, J. E. Baker, and F. Jones	558,236	Apr. 14	1290	315	75	261
Packing. Metallic rod	J. Kelley	561,794	June 9	1317	315	75	1644
Packing. Piston-rod	L. H. Clark	557,107	Mar. 31	2888	690	74	1744
Packing. Piston-rod	O. J. Garlock	572,053	Nov. 24	2886	681	77	1237
Packing. Piston-rod	O. J. Garlock	574,353	Dec. 29	4122	978	77	2120
Packing. Piston-rod	S. Hughes	559,080	Apr. 28	2741	667	75	566
Packing. Piston-rod	G. W. Troxler	567,208	Sept. 8	826	196	76	1450
Packing piston-rods. Tool for	W. R. Drum	563,577	July 7	581	135	76	109
Packing. Rod	F. Brown	572,862	Dec. 8	1353	326	77	1556
Packing. Rod	C. F. Rigby	572,910	Dec. 8	1425	343	77	1572
Packing. Rod	J. Walker	556,600	Mar. 17	2030	475	74	1541
Packing. Steam	J. Yates	564,908	July 28	2899	694 695	76	582
Packing. Woven body for steam-pad	J. Hawkrigde	567,270	Sept. 8	948	226	76	1470
See Blotting-pad. Knee-pad.							
Calendar-pad. Knuckle-pad.							
Collar-pad. Paper pad.							
Copying-pad. Sales-pad.							
Harness-pad. Stair-pad.							
Horseshoe-pad. Train-order-blank pad.							
Padlock	B. S. Blake	557,522	Mar. 31	3642	973	74	1882
Padlock	W. E. Dyer and F. Soley	572,653	Dec. 8	992	239	77	1487
Padlock	C. T. Hunt	558,814	Apr. 21	2281	554	75	461
Padlock	M. Jackson and A. Taylor	572,115	Dec. 1	35	9	77	1284
Padlock	J. Murphy	555,728	Mar. 3	413	95	74	1204
Padlock	J. Roche	555,337	Feb. 25	2733	640	74	1064
Padlock	W. H. Taylor	558,623	Apr. 21	1951	473	75	401
Padlock	W. H. Taylor	567,206	Sept. 8	823	195	76	1449
Padlock	W. F. Troast	572,586	Dec. 8	876	212	77	1464
Padlock	G. W. Werner	556,232	Mar. 10	1334	313	74	1395
Padlock. Permutation	G. L. Baker	573,805	Dec. 22	3077	731	77	1915
Padlock. Permutation	S. Bozano	556,573	Mar. 17	1984	463	74	1533
Padlock. Permutation	G. F. Day	568,562	Sept. 29	3213	774	76	1935
Padlock. Permutation	S. S. Du-Val	558,367	Apr. 14	1502	369	75	301
Padlock. Permutation	C. Myhre	557,012	Mar. 24	2740	649	74	1691
Padlock. Permutation	D. A. Root	561,524	June 2	836	201	75	1527
Padlock. Permutation	T. D. Scruggs	557,155	Mar. 31	2974	710	74	1761
Padlock. Permutation	F. S. Wilcox	562,874	June 30	3189	771	75	2048
Padlock. Seal	E. Meise	558,193	Apr. 14	1210	295	75	246
Padlock. Seal	N. C. Pond	569,387	Oct. 13	1159	275	77	237
Page-stick	A. G. Alrich	574,232	Dec. 29	3926	934	77	2063
Paging-machine	E. G. Black and J. F. Werle	567,958	Sept. 22	2122	511 512 513	76	1720
Pail bottom	S. J. Lisk	571,380	Nov. 17	1696	404	77	997
Pail. Combined mop and wringer	G. Beech	562,349	June 16	2266	549	75	1840
Pail-handle	J. B. Slade	566,028	Aug. 18	1984	481	76	1028
Pail-handle bearing	E. Mohr	565,292	Aug. 4	638	151	76	733
Pail. Milk	G. L. McCallum	562,734	June 23	2919	708	75	1979
Pail. Paraffined	H. D. Thatcher	553,794	Jan. 28	2317	550	74	477
Pail. Sanitary	C. M. D. Baron	567,446	Sept. 8	1264	306	76	1527
Pail-supporting device	S. L. Austin	558,340	Apr. 14	1460	359	75	293
Paint	T. Mott	555,221	Feb. 25	2523		74	1024
Paint	W. J. Reynolds	553,966	Feb. 4	299		74	559
Paint-agitator	T. Neal	558,738	Apr. 21	2152	518 519	75	438
Paint and making same. Preservative	P. Janssen	566,163	Aug. 18	2240		76	1075
Paint. Composition for removing	C. S. Bailey	555,065	Feb. 25	2249		74	971
Paint compound	C. V. Petraeus	571,128	Nov. 10	1288		77	906
Paint. Fireproof	S. Kalamaikowski	556,849	Mar. 24	2439		74	1636
Paint-mixer	J. P. J. Saxer	569,428	Oct. 13	1221	287	77	248
Paint. Oil	I. H. Swink	569,306	Oct. 13	1025		77	211
Paint or coating composition	H. M. Johnston	574,092	Dec. 29	3618		77	2029
Painting or varnishing surfaces. Machine for	W. F. Brenizer	572,861	Dec. 8	1351	325 326	77	1555
Paint. Resurfacing	E. N. Schultz	564,901	July 28	2889		76	580
Paint. Rust-preventive	A. Buecher	552,744	Jan. 7	438		74	84
Paint. Lustrous	J. B. O. Snider	565,147	Aug. 4	369		76	6-6
Paint. Water	W. A. Hall	567,592	Sept. 15	1509		76	1528
Paints or varnishes. Apparatus for applying	H. C. Cleaver	567,452	Sept. 8	1272	308	76	1529
Painter's apparatus	H. C. Carver and V. E. Benedict	556,302	Mar. 10	1495	347	74	1425

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Di'g.	Vol.	Page.
Painters' falls. Roof-cleat for hanging	T. H. Montgomery	555,016	Feb. 18	2151	513	74	938
Painter's guard	H. C. Warncke	554,403	Feb. 11	1070	250	74	719
Painting apparatus	A. Bryce	561,483	June 2	744	183	75	1511
Painting apparatus	R. Gunton, Jr.	558,805	Apr. 21	2266	549	75	458
Painting machine. Blind	P. Beck	554,572	Feb. 11	1357	317	74	773
Painting-nozzle. Pneumatic	A. Fisher	554,921	Feb. 18	1977	467	74	907
Painting trolley-poles. Apparatus for use in	H. A. French	571,560	Nov. 17	2007	477	77	1053
Pair and reheating furnace. Combined	S. B. Grove and G. Emlong	568,847	Oct. 6	226	53	77	45
Pan:							
See Annealing-pan. Evaporating-pan.							
Ash-pan. Frying-pan.							
Bake-pan. Leer-pan.							
Baking-pan. Locomotive ash-pan.							
Bed-pan. Roasting-pan.							
Cake-pan. Vacuum-pan.							
Dust-pan.							
Pan	A. Lindemann	566,522	Aug. 25	2864	696	76	1209
Pan-and-roller mill	N. Fossati	559,170	Apr. 28	2947	712	75	605
Pan-handle. Detachable	T. Wright	571,851	Nov. 24	2527	598	77	1170
Pan holder and lifter	H. W. Nicholes	572,815	Dec. 8	1225	309	77	1542
Pan-lifter	T. O. Andrus and T. J. Newton	572,187	Dec. 1	159	39	77	1308
Pan-lifter	A. Erbor	563,756	July 14	881	210	76	181
Pan-lifter	S. P. Rush	572,031	Nov. 24	2840	668	77	1229
Pan-lifter	A. Volkenrath	559,577	May 12	972	216	75	879
Pan-lifter	C. E. Williams	555,968	Mar. 10	878	209	74	1315
Panels and moldings on square balusters, &c. Apparatus for producing raised	W. Osment	569,029	Oct. 6	537	124	77	102
Panoramic display device	L. W. Yaggy	564,418	July 21	2075	486	76	413
Panoramic display mechanism	A. C. Allyn	557,179	Mar. 31	3014	721	74	1768
Panoramic exhibiting-cabinet	A. A. Agüero	554,638	Feb. 11	1490	349	74	798
Pante-guard and lock. Combined bicycle	H. A. Raurert	573,104	Dec. 15	1791	431	77	1658
Pante-guard. Bicycle	A. A. Billingsley	557,181	Mar. 31	3019	722	74	1768
Pants-leg guard	S. J. Turner and C. T. Glasser	569,945	Oct. 20	2161	512	77	435
Paper bag	W. A. Lorenz and W. H. Honiss	559,138	Apr. 28	2887	695	75	593
Paper bag	E. F. Taylor	572,229	Dec. 1	241	57	77	1324
Paper-bag-folding mechanism	E. Stanley	568,500	Sept. 29	3090	744	76	1914
Paper-bag machine	E. E. Claussen	574,020	Dec. 29	3486	832	77	2003
Paper-bag machine	W. Liddell	558,969	Apr. 28	2554	619	75	531
Paper-bag machine	W. Liddell	564,288	July 21	1855	434	76	373
Paper-bag machine	W. A. Lorenz and E. E. Claussen	553,652	Jan. 28	2092	493	74	434
Paper-bag machine	W. A. Lorenz and E. E. Claussen	573,277	Dec. 15	2094	503	77	1714
Paper-bag machine	W. A. Lorenz and E. E. Claussen	573,278	Dec. 15	2097	504	77	1714
Paper-bag-making machine	W. H. Patterson	571,603	Nov. 17	2073	497	77	1065
Paper bags. Means for binding and suspending packages of	W. C. Lynham	558,291	Apr. 14	1378	498	75	278
Paper-bordering machine	P. Gagnieur	553,906	Feb. 4	186	39	74	540
Paper box	A. O. Carman	559,050	Apr. 28	2694	656	75	557
Paper box	J. T. Crow	564,592	July 28	2382	560	76	486
Paper box	J. T. Crow	564,593	July 28	2383	561	76	487
Paper box	F. B. Davidson	571,512	Nov. 17	1924	459	77	1039
Paper box	A. F. Girard	567,897	Sept. 15	2011	43	76	1686
Paper box	W. B. Howe and F. B. Davidson	564,377	July 21	2000	470	76	399
Paper-box and printing-press machinery. Feeding mechanism for	W. E. Williams	552,947	Jan. 14	861	208	74	175
Paper-box blanks. Apparatus for making	H. R. Corkhill, Jr.	569,957	Oct. 20	2180	517	77	438
Paper-box clamping device	W. S. Blanchard	555,845	Mar. 3	593	142	74	1238
Paper box. Knockdown	J. T. Crow	564,594	July 28	2385	562	76	487
Paper box. Knockdown	W. B. Howe	556,675	Mar. 17	2136	498	74	1562
Paper-box machine. Round	L. T. and I. P. Hallock	569,496	Oct. 13	1332	313	77	267
Paper-box machines. Cutting and scoring roll for	E. H. Taylor	562,985	June 30	3397	817	75	2093
Paper-box machines. Cutting and scoring roll for	E. H. Taylor	565,186	Aug. 4	444	107	76	699
Paper-box-sanding machine	H. Mott	555,389	Feb. 25	2821	664	74	1080
Paper boxes. Machine for applying flies to	H. A. Inman	566,583	Aug. 25	2948	720	76	1225
Paper boxes. Mechanism for making	J. T. Crow	557,557	Apr. 7	39	11	75	9
Paper-cutter	J. S. Edgecomb	572,354	Dec. 1	480	112	77	1370
Paper cutting and scoring machine	W. B. Howe	569,873	Oct. 20	2024	483	77	409
Paper cutting and trimming machine. Guillotine	A. Bradley	567,576	Sept. 15	1479	353	76	1582
Paper-cutting machine	M. D. Knowlton	557,400	Mar. 31	3424	822	74	1841
Paper-cutting machine	H. I. Koegel	559,179	Apr. 28	2962	715	75	608
Paper doll	H. P. Bailey	554,410	Feb. 11	1096	255	74	723
Paper doll	E. C. Betzig	553,893	Feb. 4	156	32	74	535
Paper doll	P. B. King	565,994	Aug. 18	1936	468	76	1018
Paper doll and dress for same	M. T. Jones	564,078	July 14	1488	348	76	292
Paper-drier	R. H. Aldrich	558,628	Apr. 21	1959	475	75	403
Paper-drier	A. G. Paul and H. A. Joslin	571,787	Nov. 24	2413	575	77	1149
Paper-drying cylinder	J. White	560,309	May 19	1781	406	75	1080
Paper-drying machine	L. W. Noyes	558,301	Apr. 14	1391	340	75	280
Paper elbows. Producing	E. T. Greenfield	553,674	Jan. 28	2124	503	74	439
Paper-feeding machine	T. A. Briggs and W. A. Philpott, Jr.	562,797	June 30	3029	732	75	2015
Paper-feeding machine	T. A. Briggs and W. A. Philpott, Jr.	572,154	Dec. 1	108	25, 26	77	1298

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. 5.	Vol.	Page.
Paper-feeding machine.....	B. W. Child.....	567,261	Sept. 8	922	220 221	76	1466
Paper-feeding machine.....	B. W. Child, M. B. Foy, and F. M. Leavitt.....	567,264	Sept. 8	931	222	76	1467
Paper-feeding machine.....	E. T. Cleathero.....	570,000	Oct. 27	2253	534 535 536	77	464
Paper-feeding machine.....	T. C. Dexter.....	561,772	June 9	1278	305 306 307	75	1637
Paper-feeding machine.....	E. Dummer.....	566,670	Aug. 25	3070	749 750	76	1249
Paper-feeding machine.....	F. R. Ford.....	567,266	Sept. 8	935	223 224	76	1468
Paper-feeding machine.....	M. B. Foy and F. M. Leavitt.....	567,268	Sept. 8	941	224 225	76	1469
Paper-feeding machine.....	F. Hoyer.....	556,351	Mar. 17	1580	370 371	74	1457
Paper-feeding machine.....	F. M. Leavitt.....	567,276	Sept. 8	959	228 229	76	1472
Paper-feeding machine.....	R. McKee.....	571,601	Nov. 17	2070	496 497	77	1064
Paper-feeding machine.....	R. S. Oder.....	567,994	Sept. 22	2192	527 528 529	76	1732
Paper-feeding machine.....	R. S. Oder.....	567,995	Sept. 22	2201	530 531 532	76	1732
Paper-feeding machine.....	A. Reisser.....	567,043	Sept. 1	550	128 129	76	1386
Paper-feeding machine.....	W. G. Trevette.....	562,867	June 30	3174	768 769	75	2046
Paper-feeding machine.....	F. Van Benthuyssen.....	555,422	Feb. 25	2880	685 686	74	1092
Paper-feeding machine. Automatic.....	N. E. Funk.....	574,199	Dec. 29	3849	918	77	2068
Paper-feeding machines. Feeder's helper for.....	T. C. Dexter.....	561,773	June 9	1284	308 309	75	1638
Paper-feeding or other machines. Automatic stop mechanism for.....	B. W. Child.....	567,262	Sept. 8	925	221	76	1466
Paper. Fixture for holding roll.....	O. H. Hicks.....	564,688	July 28	2529	598	76	515
Paper fixture. Roll.....	O. H. Hicks.....	562,533	June 23	2554	621	75	1911
Paper folding and cutting machine.....	W. Scott.....	562,202	June 16	2012	486 487	75	1793
Paper-folding machine.....	T. C. Dexter.....	564,555	July 21	2294	539 540 541	76	452
Paper-folding machine.....	T. C. Dexter.....	567,301	Sept. 8	1008	542 239	76	1482
Paper-folding machine.....	W. Downing.....	553,111	Jan. 14	1145	240 278	74	229
Paper-folding machine.....	O. H. Marston.....	557,310	Mar. 31	3265	783 784	74	1810
Paper-folding machine.....	F. Meisel.....	568,307	Sept. 22	2757	783 664	76	1838
Paper-folding machines. Packing-box for.....	T. C. Dexter.....	561,935	June 9	1551	375 376	75	1688
Paper-folding machines. Sheet-adjusting device for.....	H. K. King.....	574,153	Dec. 29	3724	887 888	77	2047
Paper-grooving machine.....	J. T. Robinson and D. M. Smith.....	573,705	Dec. 22	2921	691	77	1886
Paper-hanger's folding table.....	R. G. Odell.....	564,936	July 28	2968	707	76	594
Paper-hanger's work-table.....	F. E. Daudelin.....	572,698	Dec. 8	1075	262	77	1503
Paper-hanging machine.....	A. Markmann.....	569,835	Oct. 20	1967	468	77	399
Paper-hanging machine. Wall.....	R. H. and L. E. Gowan.....	566,680	Aug. 25	3093	755 756	76	1252
Paper holder and advertising device. Combined toilet.....	W. Fisher.....	573,586	Dec. 22	2682	637	77	1840
Paper holder and cutter.....	J. S. Aydelott.....	572,351	Dec. 1	468	110	77	1367
Paper holder. Roll.....	E. Morgan.....	564,633	July 28	2450	576	76	499
Paper holder. Toilet.....	E. D. Casterline.....	572,331	Dec. 1	435	102	77	1362
Paper holder. Toilet.....	H. H. Chillberg.....	557,553	Apr. 7	35	10	75	8
Paper interlining for dresses. Machine for manufacturing.....	J. T. Ryan.....	566,278	Aug. 18	2379	583 584	76	1101
Paper-machine.....	G. C. Gill.....	556,181	Mar. 10	1244	291	74	1379
Paper-machine.....	F. P. Nicely.....	570,949	Nov. 10	963	223 224	77	846
Paper, &c. Machine for feeding sheets of.....	J. H. Knowles.....	565,905	Aug. 18	1741	427 428 429	76	977
Paper. Machine for manufacturing roofing.....	M. Ehret.....	565,336	Aug. 4	707	169 170	76	747
Paper. Machine for registering sheets of.....	T. C. Dexter.....	561,771	June 9	1273	304 305	75	1636
Paper-machine stuff-regulator.....	E. Bahn.....	565,665	Aug. 11	1317	318	76	881
Paper-machines. Shake-frame for Fourdrinier.....	T. H. Savery.....	568,211	Sept. 22	2598	625	76	1806
Paper-maker's gage.....	T. Chalmers.....	565,723	Aug. 11	1427	348	76	901
Paper-making machine.....	G. W. Lewthwaite.....	567,484	Sept. 8	1326	319	76	1539
Paper-making-machine attachment.....	E. Riley.....	565,121	Aug. 4	303	72	76	673
Paper-making machines. Automatic tightener for drier-felts of.....	T. Pusey, T. H. Latimer and T. H. Savery.....	569,031	Oct. 6	543	125	77	103
Paper-making machines. Producing molds for.....	S. Crump.....	554,243	Feb. 11	801	183	74	668
Paper-making machines. Pulp-feed regulator for.....	R. E. Blasser.....	567,636	Sept. 15	1579	380 381	76	1601
Paper-making machines. Stuff-regulator for.....	W. H. Stobie and W. H. Cunningham.....	564,035	July 14	1399	326	76	274
Paper-making machines. Suction-roll for.....	F. E. Allen.....	573,752	Dec. 22	2995	709	77	1900

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Paper-marbling machine	A. H. Schneidawind	557,433	Mar. 31	3484	835	74	1853
Paper. Mechanism for drying varnished	W. Hollingsworth	562,534	June 23	2556	621	75	1911
Paper, metal, &c. Apparatus for making crimped, plaited, or corrugated articles of	C. Moritz	563,199	June 30	3779	905	75	2165
Paper. Moisture-proof	W. B. Howe	569,874	Oct. 20	2027	906	77	409
Paper packages for cheroots, &c. Machine for making	F. J. Ludington	561,332	June 2	471	117 118 119 120	75	1461
Paper packages. Clip for toilet	G. T. Johnson	570,667	Nov. 3	467	109	77	725
Paper pad	S. J. Chadwick	554,110	Feb. 4	575	130	74	609
Paper-paraffining machine	L. G. Reynolds	559,605	May 5	435	103	75	767
Paper-perforating machine. Toilet	H. P. Feister	567,460	Sept. 8	1286	312	76	1531
Paper-polishing machine	C. F. Hauff	557,806	Apr. 7	509	122 123	75	97
Paper-pulp engine	J. Lamontagne	568,358	Sept. 29	2852	686	76	1870
Paper-pulp machine	G. W. Lyons	564,436	July 21	2105	492	76	418
Paper-pulp, &c. Machine for straining	T. Torrance and J. H. Howell	553,949	Feb. 4	263	57, 58	74	553
Paper-pulp-screening machine	W. Curtis	552,745	Jan. 7	452	113	74	85
Paper-pulping engine	E. D. Speer	573,627	Dec. 22	2778	658	77	1860
Paper-recycling machine	J. J. Lanzit	567,649	Sept. 15	1604	386	76	1606
Paper reel and printer	D. J. Etly	569,096	Oct. 6	652	151	77	125
Paper-registering instrument	J. J. Parker and T. C. Dexter	567,356	Sept. 8	1119	269	76	1501
Paper-registering machine	T. C. Dexter	554,913	Feb. 18	1963	462 463	74	904
Paper-registering machine	T. C. Dexter	561,936	June 9	1554	377 378	75	1689
Paper-registering machine	T. C. Dexter	567,564	Sept. 8	1445	347 348	76	1560
Paper-registering mechanism	T. C. Dexter	561,937	June 9	1557	378	75	1689
Paper-roll core	R. Wuelfing	566,368	Aug. 25	2565	627	76	1152
Paper-roll holder	A. J. P. Brown and J. R. Brough	561,481	June 2	742	182	75	1510
Paper-rolling machine. Wall	J. W. Meyer	565,116	Aug. 4	293	69	76	671
Paper sheets. Cabinet for	G. Thorn and C. F. Austin	559,469	May 5	207	46	75	722
Paper sheets. Machine for feeding and registering	S. W. Burgess	559,886	May 12	988	220	75	882
Paper sheets. Machine for separating and feeding	E. Dummer	557,656	Apr. 7	243	60	75	46
Paper. Spindle for reeling or rolling	W. L. Coultas, Jr	559,682	May 5	560	132	75	789
Paper splitting and winding machine	C. E. Pope	567,164	Sept. 8	766	179 180	76	1439
Paper-stock cooker	M. D. Keeney	570,641	Nov. 3	411	97	77	714
Paper-stock-cooking apparatus	M. D. Keeney	570,640	Nov. 3	409	97	77	714
Paper-stock-feeding device	T. C. Cadwgan	561,484	June 2	747	183	75	1511
Paper-stock to pulp. Machine for reducing	A. P. Brown	569,321	Oct. 13	1047	248 249	77	216
Paper-stock-washing machine	M. J. Roach	569,673	Oct. 20	1670	395	77	346
Paper. Toilet	E. Jerome	564,248	July 21	1778	416	76	361
Paper. Toilet	E. Jerome	570,606	Nov. 3	699	160	77	768
Paper. Toilet	E. Jerome	573,599	Dec. 22	2709	643	77	1846
Paper. Toilet	E. Jerome	573,600	Dec. 22	2710	644	77	1846
Paper trimmer. Wall	W. J. Clifford	566,661	Aug. 25	3054	746	76	1246
Paper trimmer. Wall	J. T. Montgomery	554,708	Feb. 18	1607	378 379	74	837
Paper-trimming machine. Wall	T. Price	556,369	Mar. 17	1619	378 379	74	1464
Paper-tube machine	G. H. Knight	574,034	Dec. 29	3510	838 839	77	2008
Paper-tube machine	W. H. Knight and F. O. Blackwell	573,004	Dec. 15	1613	388	77	1624
Paper tubes. Machine for securing seams of	D. B. Strouse	554,095	Feb. 4	535	120	74	602
Paper varnishing or coating machine	E. Bush	560,022	May 12	1238	277	75	929
Paper vessel	I. W. Hollett	571,526	Nov. 17	1944	464	77	1043
Paper vessel	I. W. Hollett	571,831	Nov. 24	2485	589	77	1162
Paper webs. Method of and apparatus for coloring	S. R. Wagg	564,353	July 21	1956	461	76	391
Paper-weight	H. D. Holloway and F. W. Rhodes	560,502	May 19	2114	484	75	1139
Paper-weight and game or puzzle. Combined	J. M. Waddell	570,858	Nov. 3	799	183	77	787
Paraffin-removers. Cross-head for	T. G. Laney	560,100	May 12	1394	313	75	959
Parcel and luggage carrier	F. A. Ruff	562,744	June 23	2932	711	75	1982
Parer. Apple	H. A. and W. Tripp	572,689	Dec. 8	1056	257	77	1499
Parer. Vegetable	C. Sonneson	566,812	Sept. 1	123	30	76	1305
Parer. Vegetable	C. H. Woolf	556,875	Mar. 24	2495	588	74	1646
Parer-knife	J. H. Groeters	565,348	Aug. 4	729	174	76	751
Partition-block	W. V. Pettit	570,733	Nov. 3	582	133	77	745
Partition or wall. Tile	G. S. Angus	558,755	Apr. 21	2184	525	75	444
Passenger-register	W. H. Ching	569,543	Oct. 13	1414	334	77	283
Paste-applying machine	F. H. Richards	572,373	Dec. 1	512	121	77	1375
Paste-receptacle	A. N. Ritz	572,617	Dec. 8	933	227	77	1475
Paste to paper, &c. Machine for applying	W. H. Honiss and W. A. Lorenz	571,527	Nov. 17	1946	464 465	77	1043
Pasteurizing apparatus	O. B. Schier	562,038	June 16	1736	420	75	1742
Pastry-loosener	C. W. Booth	562,275	June 16	2127	516	75	1814
Pastry-rack	J. H. Burns	563,562	July 7	557	127	76	105
Pattern. Adjustable	W. A. Mathews	560,593	May 19	2264	519	75	1167
Pattern. Adjustable garment	A. Livingston	556,856	Mar. 24	2451	576 577	74	1638
Pattern or chart	M. E. Hall	573,408	Dec. 15	2332	557	77	1756
Pattern tracing and cutting machine	C. E. Reed. (Reissue)	11,569	Sept. 29	3522	844 845 846	76	1996
Patterns. Apparatus for producing	F. Crakauer	558,780	Apr. 21	2224	535 536	75	451
Patterns. Producing and coating	W. P. Smith	567,694	Sept. 15	1673	403	76	1620
Pavements. Apparatus for repairing asphalt	A. H. Perkins	560,599	May 19	2276	521	75	1169
Pavements. Method of and apparatus for repairing asphalt	H. W. Laster	552,913	Jan. 14	802	195	74	163
Paving-blocks. Apparatus for handling	J. Sheridan	568,147	Sept. 22	2497	601	76	1787

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Paving-roller	J. J. Booth and W. Flinn	562,167	June 16	1956	474	75	1783
Paving-roller	F. E. Puffer	572,447	Dec. 1	635	150	77	1399
Paving, roofing, or similar compositions. Making	J. A. Just	561,322	June 2	456		75	1458
Pea-huller	J. M. Sanders	561,616	June 9	2992	238	75	1583
Pea huller and separator	R. M. Cheek and M. G. Logan	565,724	Aug. 11	1428	348	76	902
Peanut stripping and cleaning machine	T. E. Hoffman	553,527	Jan. 28	1872	443	74	395
Peas and round seeds from broken barley, &c. Machine for separating	F. Prinz	563,238	June 30	3838	920	75	2175
Pedal attachment	S. H. Law	562,546	June 23	2577	626	75	1914
Pedal. Spring	R. F. Wall	553,797	Jan. 28	2332	551	74	478
Pedestal. Folding wheel	C. T. Hartson	554,685	Feb. 18	1571	370	74	831
Peeler. Orange	F. Barr	559,961	May 12	1117	250	75	905
Peeler. Vegetable	G. J. Capewell	557,188	Mar. 31	3039	727	74	1770
Peeler. Vegetable	O. C. Merrill	557,212	Mar. 31	3093	741	74	1779
Pegging-horn	W. L. Whittemore and P. R. Glass	567,626	Sept. 15	1557	375	76	1597
Pegging-machine	J. F. Davey	555,434	Feb. 25	2905	691	74	1096
Pegging-machine	W. W. Kelly	559,532	May 5	310	75	75	742
Pegging machine. Boot or shoe	T. Cowburn	558,261	Apr. 14	1331	325 326 327	75	269
Pegging-machine. Hand	J. E. Crisp and G. W. Copeland	569,617	Oct. 20	1568	368	77	327
Pegging-machine horn or stock-support	S. M. Cutter	557,769	Apr. 7	445	105	75	84
Pelts. Machine for refining	P. Jenik	557,129	Mar. 31	2926	700 701	74	1752
Pen	F. J. W. Fischer	563,031	June 30	3471	834	75	2107
Pen	A. Groundman	560,407	May 19	1953	446	75	1110
Pen and holder. Ruling	A. N. Dow	569,038	Oct. 6	556	128	77	106
Pen and pencil case	C. Tollner	565,710	Aug. 11	1391	339	76	895
Pen and pencil holder	B. S. Galloway	514,257	Feb. 11	827	189	74	673
Pen. Ball fountain	S. E. Kochendarfer	554,189	Feb. 4	706	159	74	634
Pen. Drawing	F. A. Alteneder	568,556	Sept. 29	3206	772	76	1934
Pen. Drawing	A. Bull	566,654	Aug. 25	3044	744	76	1244
Pen-extractor	A. A. Dayton	560,611	May 19	2299	526	75	1173
Pen. Farrowing	E. Powers	569,516	Oct. 13	1375	322 323	77	275
Pen. Fountain	A. H. Down	556,623	Mar. 17	2065	423	74	1547
Pen. Fountain	E. Frischknecht	557,374	Mar. 31	3379	811	74	1833
Pen. Fountain	J. W. Laughlin	559,034	Apr. 28	2663	649	75	552
Pen. Fountain	L. Martin	558,293	Apr. 14	1381	337	75	279
Pen. Fountain	V. E. Minich	562,842	June 30	3126	757	75	2036
Pen. Fountain	M. W. Moore	567,151	Sept. 8	746	174	76	1435
Pen. Fountain	M. W. Moore	567,152	Sept. 8	748	174	76	1435
Pen. Fountain	C. J. Renz	557,149	Mar. 31	2963	709	74	1759
Pen. Fountain	C. J. Renz	564,842	July 28	2795	665	76	562
Pen. Fountain	W. J. Rogers	566,938	Sept. 1	348	81	76	1349
Pen. Fountain	A. J. Scritchfield	564,938	July 28	2971	708	76	594
Pen. Fountain	W. C. Sherman	570,717	Nov. 3	549	128	77	740
Pen. Fountain	N. C. Stiles	566,350	Aug. 25	2520	616	76	1145
Pen. Fountain	C. F. Veit	552,679	Jan. 7	318	84	74	62
Pen. Fountain	L. E. Waterman	559,422	May 5	137	29	75	707
Pen. Fountain	O. E. Weidlich	556,522	Mar. 17	1911	445	74	1519
Pen. Fountain drawing	G. O. Harlan	558,278	Apr. 14	1358	331	75	274
Pen. Fountain shading	M. Heitmann	565,982	Aug. 18	1912	463	76	1013
Pen. Fountain marking	W. N. Fessenden	555,763	Mar. 3	463	110	74	1213
Pen-guide and finger-rest	I. Bergmann	559,666	May 5	535	124	75	784
Pen. Hog	J. L. Gilmore	566,163	Aug. 18	2207	537	76	1068
Penholder	E. Ackerman	567,953	Sept. 22	2115	510	76	1719
Penholder	H. C. Clark	554,503	Feb. 11	1248	292	74	752
Penholder	W. M. Cole	563,015	June 30	3441	827	75	2102
Penholder	W. W. Cole	555,676	Mar. 3	335	76	74	1190
Penholder	A. Grollmann	552,640	Jan. 7	231	64	74	45
Penholder	W. Hinchliffe	572,894	Dec. 8	1396	338	77	1565
Penholder	J. Martin, J. McCarty, and T. Craft	556,511	Mar. 17	1888	439	74	1515
Penholder	V. E. Minich	573,520	Dec. 22	2566	609	77	1-17
Penholder	J. E. Murphy	567,729	Sept. 15	1830	439	76	1650
Penholder	W. B. Perry	573,696	Dec. 22	2900	685	77	1882
Penholder	A. J. Reams	562,341	June 16	2253	546	75	1838
Penholder	H. S. Runfield	566,623	Aug. 25	3001	733	76	1236
Penholder	J. E. Smoot	565,806	Aug. 11	1566	381	76	927
Penholder	J. Wheeler	560,553	May 19	2202	503	75	1154
Penholder. Combination	J. A. Larsson	561,897	June 9	1491	360	75	1677
Penholder finger-rest	J. T. Ahrens	564,178	July 21	1675	392	76	341
Penmanship. Device for facilitating	T. M. Watt	563,107	June 30	3622	868	75	2135
Pen or pencil holder	E. G. Wickwire	571,630	Nov. 17	2127	511	77	1075
Pen-point extractor	W. Leigh	556,468	Mar. 17	1802	419	74	1500
Pen. Shading	J. P. Kühn	567,482	Sept. 8	1323	319	76	1538
Pen. Shading	F. A. Price	558,311	Apr. 14	1415	348	75	285
Pen stock or holder attachment	F. C. Cuckson	572,526	Dec. 8	769	182	77	1440
Pen-wiper	E. G. Bouton	562,371	June 23	2300	559	75	1863
Pen wiper and rack. Combined	J. F. Marsden	566,330	Aug. 25	2483	608	76	1138
Pens. Reservoir attachment for	C. J. Renz	568,627	Sept. 29	3345	802	76	1961
Pencil	C. W. Boman	554,212	Feb. 4	740	168	74	641
Pencil	G. K. Cummings and F. W. Musson	572,105	Dec. 1	17	5	77	1281
Pencil	H. and H. Hunt, Jr.	558,813	Apr. 21	2279	534	75	461
Pencil	F. W. Musson	574,362	Dec. 29	4133	922	77	2122
Pencil	F. W. Musson	574,363	Dec. 29	4134	922	77	2122
Pencil	H. H. Seaman	555,341	Feb. 25	2740	642	74	10-5
Pencil and penholder attachment. Lead	L. D. Van Valkenburg	560,872	May 26	2827	648	75	1289
Pencil and penholder. Combined	J. D. Kiouss	570,932	Nov. 10	934	217	77	841
Pencil attachment. Lead	E. P. Brewer	568,473	Sept. 29	3043	730	76	1905
Pencil-box and T-square. Combined	Lita	562,486	June 23	2483	602	75	1897
Pencil-case	E. Pape	557,599	Apr. 7	126	33	75	25
Pencil case. Lead	J. Clement	566,444	Aug. 25	2742	665	76	1185
Pencil cigar-cutting attachment. Lead	M. Schott	572,452	Dec. 1	647	152	77	1402

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pencil-holder.....	G. Bartlett.....	563,121	June 30	3642	872	75	2139
Pencil-holder.....	A. P. Gillespie.....	572,632	Dec. 8	958	241	77	1480
Pencil-holder.....	W. R. Kromer.....	559,719	May 5	617	148	75	800
Pencil-holder and clip. Combined.....	W. E. Quinn.....	556,209	Mar. 10	1293	302	74	1388
Pencil. Lead.....	C. W. Boman.....	562,272	June 16	2125	515	75	1814
Pencil. Lead.....	C. W. Frost.....	555,690	Mar. 3	351	80	74	1192
Pencil. Lead.....	E. E. Monroe.....	567,991	Sept. 22	2188	526	76	1731
Pencil. Lead.....	F. W. Musson.....	574,361	Dec. 29	4132	981	77	2121
Pencil. Magazine.....	J. W. Steele.....	561,734	June 9	1206	286	75	1624
Pencil. Mechanical lead.....	F. W. Musson.....	574,359	Dec. 29	4130	981	77	2121
Pencil. Mechanical lead.....	F. W. Musson.....	574,360	Dec. 29	4131	981	77	2121
Pencil-point protector. Combination.....	C. S. Freer.....	570,922	Nov. 10	915	212	77	838
Pencil-pointer.....	W. E. Simonds.....	573,364	Dec. 15	2264	540	77	1744
Pencil-sharpener.....	R. S. Chevrier.....	555,497	Mar. 3	25	6	74	1135
Pencil-sharpener.....	C. E. Cousy.....	572,866	Dec. 8	1359	329	77	1557
Pencil-sharpener.....	H. M. Dixon.....	564,823	July 28	2768	658	76	557
Pencil-sharpener.....	F. J. W. Fischer.....	564,149	July 14	1610	377	76	317
Pencil-sharpener.....	A. Kaiser.....	562,303	June 16	2177	529	75	1824
Pencil-sharpener.....	P. E. Salin.....	560,304	May 19	1774	404	75	1078
Pencil-sharpener.....	L. A. Stough.....	570,617	Nov. 3	340	84	77	701
Pencil-sharpener.....	C. M. Walker.....	554,608	Feb. 11	1431	336	74	787
Pencil-sharpener.....	T. Waring.....	573,731	Dec. 22	2965	702	77	1894
Pencil-sharpener.....	W. H. White.....	569,698	Oct. 20	1724	410	77	356
Pencil-sharpener and eraser.....	W. C. McDougall.....	563,400	July 7	277	62	76	56
Pencil-sharpener and point-guard.....	J. Kraker.....	557,402	Mar. 31	3435	823	74	1843
Pencil sharpener. Slate.....	L. P. Spencer.....	570,570	Nov. 3	258	64	77	686
Pencil-sharpening machine.....	G. F. Ballou.....	556,709	Mar. 17	2185	510	74	1571
Pencil-sharpening machine.....	J. W. Johnson.....	564,202	July 21	1710	400	76	347
Pencil sharpening, pointing, and cleansing device.....	H. W. Hales.....	557,670	Apr. 7	267	64	75	50
Pencil-tip. Combination.....	G. E. Eggert.....	570,248	Oct. 27	2696	641	77	549
Pencils. Manufacture of writing.....	E. Muhl and C. Braun.....	553,414	Jan. 21	1672	74	341	
Pepper and salt box. Combination.....	J. P. Campbell.....	563,012	June 30	3437	827	75	2101
Percolator for extracting oil.....	G. F. Metzger.....	566,599	Aug. 25	2969	725	76	1229
Percussion-screen.....	P. F. Poorbaugh.....	552,585	Jan. 7	141	39	74	28
Perforating device.....	C. M. Green.....	556,051	Mar. 10	1006	240	74	1336
Perforating device.....	B. P. Flood.....	569,187	Oct. 13	804	188	77	169
Perforating-machine.....	C. L. Buckingham and E. Germann.....	568,515	Sept. 29	3128	754	76	1920
Perforating-machine.....	E. Griffin.....	556,714	Mar. 17	2196	513	74	1573
Perforating-machine.....	J. J. Reifgraber.....	564,100	July 14	1522	357	76	299
Perforating machine. Document.....	C. Heath.....	571,365	Nov. 17	1672	396	77	993
Perforating, pinking, and punching machine.....	W. B. Keighley.....	557,276	Mar. 31	3208	770	74	1799
Perforator.....	C. L. Buckingham, E. Germann, and J. W. A. Gardam.....	568,512	Sept. 29	3112	750	76	1918
Perforator.....	C. L. Buckingham, J. Gardam, and E. Germann.....	568,516	Sept. 29	3129	751	76	1921
Perforator and circuit-controlling apparatus therefor.....	C. L. Buckingham and E. Germann.....	568,514	Sept. 29	3123	754	76	1919
Perforator. Check.....	F. Zander.....	553,889	Feb. 4	147	30	74	533
Perfuming device.....	F. G. Fisher.....	554,115	Feb. 4	583	131	74	610
Permutation-lock.....	W. S. Chedister.....	555,474	Feb. 25	2986	711	74	1111
Permutation-lock.....	S. C. Houghton.....	567,900	Sept. 15	2014	484	76	1687
Permutation-lock.....	I. W. Moore.....	568,264	Oct. 6	262	61	77	51
Permutation-lock.....	J. Roche.....	555,336	Feb. 25	2730	640	74	1063
Permutation-lock.....	J. P. Weber.....	565,527	Aug. 11	1074	258	76	834
Pessary.....	G. J. Gladman.....	555,695	Mar. 3	359	83	74	1194
Pessary.....	H. M. Ryman.....	559,405	May 5	103	22	75	701
Pessary.....	H. M. Ryman.....	559,406	May 5	104	23	75	701
Pessary and womb-battery. Combined.....	M. E. Keller.....	563,387	July 7	254	52	76	51
Pestle and squashing apparatus.....	T. Wieland.....	568,009	Sept. 22	2223	537	76	1737
Petroleum-burner. Wickless.....	C. Ostlund and A. E. Malmström.....	558,415	Apr. 14	1588	388	75	316
Petroleum-burning furnace.....	W. T. Chamberlain.....	562,802	June 30	3044	735	75	2021
Petroleum distillates. Refining.....	G. M. Saybolt.....	565,040	Aug. 4	137	.....	76	643
Petroleum for removing sulfur compounds. Treatment of.....	H. Frasch.....	572,676	Dec. 8	1032	.....	77	1495
Petroleum-heater.....	E. Wolf.....	560,014	May 12	1218	272	75	929
Petroleum-motor.....	F. Henriod-Schweizer.....	555,373	Feb. 25	2797	655	74	1076
Petroleum-motor.....	F. Mex.....	562,230	June 16	2054	497	75	1801
Petroleum-motors. Apparatus for regulating temperature of combustion-chambers and vaporizers of.....	E. Capitaine.....	572,499	Dec. 1	720	171	77	1415
Petroleum. Process of and apparatus for refining Lima or similar.....	H. Frasch.....	564,922	July 28	2924	700	76	527
Petroleum. Process of and apparatus for refining Lima or similar.....	H. Frasch.....	564,924	July 28	2938	701	76	590
Petroleum. Purifying.....	H. Frasch.....	564,921	July 28	2922	699	76	586
Petroleum-purifying apparatus.....	H. Frasch.....	564,920	July 28	2920	699	76	586
Petroleum-refining apparatus.....	C. F. Grady.....	556,412	Mar. 17	1696	295	74	1479
Petroleum. Refining Lima or similar.....	H. Frasch.....	564,923	July 28	2933	700	76	589
Phase-completing device.....	J. T. Sibley.....	552,553	Jan. 7	84	23	74	19
Phenols. Obtaining.....	L. Lederer.....	554,338	Feb. 18	2006	.....	74	912
Phonograph.....	G. W. Moore.....	568,116	Sept. 22	2441	586	76	1776
Phonograph diaphragm-clamp.....	V. H. Emerson.....	567,738	Sept. 15	1752	420	76	1636
Phonographs. Pedal apparatus for controlling recording and reproducing apparatus of.....	L. S. Robinson.....	562,664	June 23	2790	677	75	1955
Phonographs, &c. Spring-motor for.....	F. L. Capps.....	570,378	Oct. 27	2964	703	77	598
Phosphate-drying apparatus.....	E. Ruelle.....	567,513	Sept. 8	1367	329	76	1546

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Photograph-printing frames. Automatic register for.	A. E. Willis	553,479	Jan. 21	1775	423	74	360
Photographs. Apparatus for exhibiting successive..	A. N. Petit	560,367	May 19	1878	428 429	75	1097
Photographs. Apparatus for exhibiting successive..	A. N. Petit	560,425	May 19	1988	454 455	75	1117
Photographs in colors. Producing	M. Anderson	559,051	Apr. 28	2695	656	75	557
Photographs in relief. Producing	T. C. Marceau	567,748	Sept. 15	1769	425	76	1639
Photographs in relief. Producing	T. C. Marceau	574,069	Dec. 29	3575	853	77	2021
Photographs. Producing embossed..	F. A. Taber	556,591	Mar. 17	2016	471	74	1538
Photographs. Revolving stand for	B. Epstein	573,968	Dec. 29	3399	814	77	1988
Photographer's press	T. H. McCollin	569,761	Oct. 20	1849	438	77	376
Photographer's refining-stove.....	D. R. Van Riper	564,729	July 28	2608	632	76	529
Photographic apparatus. Coin-controlled.....	J. Powers	565,297	Aug. 4	642	153 154	76	734
Photographic background	L. R. Naef	567,495	Sept. 8	1339	323	76	1542
Photographic-background carrier	R. A. Green and A. R. Lawton	557,990	Apr. 7	826	196	75	155
Photographic burnisher	P. G. Fleming and G. C. W. Gennert	559,694	May 5	580	137	75	792
Photographic-card drier	N. H. Reed	570,338	Oct. 27	2900	638	77	586
Photographic case for monuments	H. F. Gray	559,702	May 5	591	140	75	795
Photographic child's support	C. La Preasse	557,132	Mar. 31	2931	702	74	1753
Photographic color-screen	J. W. McDonough	562,642	June 23	2755	669	75	1948
Photographic color-screen	T. C. Roche	561,132	June 2	96	27	75	1385
Photographic dark room	J. P. Brockway	558,348	Apr. 14	1468	360 361	75	295
Photographic dark room. Portable	W. T. Ferguson	571,085	Nov. 10	1195	281	77	889
Photographic developing-cabinet	R. Aramburu	557,633	Apr. 7	189	46	75	37
Photographic-display cabinet	H. W. Potteliger and W. A. Kohman	553,073	Jan. 14	1070	261	74	214
Photographic-exposure meter	G. F. Wynne	557,246	Mar. 31	3161	758	74	1791
Photographic fabric. Sensitized	E. A. Anthony	559,658	May 5	526	121	75	783
Photographic-film holder	G. Eastman	563,915	July 14	1188	280	76	237
Photographic-film holder	T. W. Wright and L. D. Preston	558,138	Apr. 14	1121	273	75	229
Photographic films. Pack of	J. T. Clarke	571,470	Nov. 17	1843	439	77	1024
Photographic finder	A. C. Mercer	565,626	Aug. 11	1244	300	76	866
Photographic finder	A. C. Mercer	572,173	Dec. 1	139	33	77	1304
Photographic flash-light apparatus	C. and F. H. Clifford	560,778	May 26	2652	609	75	1255
Photographic lens	H. L. Aldis	560,460	May 19	2052	468	75	1127
Photographic mount	C. S. Harris	567,134	Sept. 8	720	168	76	1430
Photographic mounts. Manufacturing	J. W. McCabe	569,510	Oct. 13	1366	320	77	274
Photographic negative	J. W. McDonough	561,687	June 9	1115	265	75	1606
Photographic objective	D. Kaempfer	562,614	June 23	2713	657	75	1940
Photographic or surveyor's stand	A. B. Macklin	563,496	July 7	442	102	76	85
Photographic paper. Self-toning sensitive	E. P. Schoenfelder and E. Kehle	560,755	May 26	2597	75	1245	
Photographic paper. Self-toning sensitive	E. P. Schoenfelder and E. Kehle	560,756	May 26	2598	75	1245	
Photographic paper. Self-toning sensitive	P. E. Schoenfelder and E. Kehle	568,496	Sept. 29	3086	76	1913	
Photographic paper. Sensitized	J. Boettner and T. Dicke	557,047	Mar. 24	2790	74	1702	
Photographic paper. Sensitive	F. H. Csizsar	574,059	Dec. 29	3558	77	2018	
Photographic-plate holder	M. Levy and H. L. Bell	552,766	Jan. 7	484	120	74	91
Photographic-plate holder	F. A. Brownell	562,168	June 16	1957	475	75	1783
Photographic-plate holder	M. Flammang and F. Moniot	571,855	Nov. 24	2531	599	77	1170
Photographic-plate holder	A. O. Kaiser	567,596	Sept. 15	1513	364	76	1589
Photographic-plate holder and developing apparatus	J. Landising	562,544	June 23	2571	624 625	75	1913
Photographic-plate lifter	S. C. Smith	572,663	Dec. 8	1010	244	77	1490
Photographic posing-chair	J. M. Dow	566,382	Aug. 25	2590	632 633	76	1157
Photographic print and negative washer	A. Sprauer	567,052	Sept. 1	564	132	76	1388
Photographic prints. Forming	S. P. Sampolo and C. L. A. Brasseur	571,314	Nov. 10	1587	377	77	963
Photographic-printing apparatus	W. Friese-Greene	563,853	July 14	1070	252 253	76	215
Photographic-printing apparatus	W. Friese-Greene	557,119	Mar. 31	2905	694 695	74	1748
Photographic-printing frame	J. W. McDonough	561,685	June 9	1112	265	75	1605
Photographic-printing frame	A. C. Moore and S. McLaughlin	573,521	Dec. 22	2567	609 610	77	1817
Photographic-printing frame	H. Sack	563,888	July 14	1141	267 268	76	229
Photographic purposes. Flash-light apparatus for	H. E. Rathbun and F. Beby	572,718	Dec. 8	1116	270	77	1510
Photographic retoucher	S. G. Bradford	571,642	Nov. 17	2142	514	77	1078
Photographic retoucher	D. M. Harshman	555,243	Feb. 25	2562	602	74	1031
Photographic roll-holder	T. H. Blair and F. H. Kelley	565,323	Aug. 4	685	164 165	76	742
Photographic roll-holder spool	F. A. Brownell	554,769	Feb. 18	1713	401	74	857
Photographic salting solution	R. Martin	560,003	May 12	1201	.....	75	924
Photographic shutter	O. Friese	562,599	June 23	2693	651	75	1036
Photographic shutter	J. Kruse	561,672	June 9	1080	260	75	1599
Photographic shutter	R. Nerlich	564,216	July 21	1729	405	76	351
Photographic shutter	J. A. Robertson	574,113	Dec. 29	3653	872	77	2035
Photographic shutter	V. Royle	568,102	Sept. 22	2416	582	76	1772
Photographic shutter	C. Whitney	555,986	Mar. 10	873	206	74	1314
Photographic shutter	A. E. Younger	573,953	Dec. 29	3354	804	77	1981
Photographic shutter. Automatic	P. L. Wilkerson	573,499	Dec. 22	2538	601	77	1212
Photographic vignetter	W. Eddowes	572,928	Dec. 8	1474	354	77	1581
Photographic vignetter	L. R. Naef	567,496	Sept. 8	1341	323 324	76	1542
Photographic vignetter	J. E. Rösch	562,977	June 30	3386	814	75	2091
Photographic washing-tank	G. R. Perkins	562,239	June 16	2069	502	75	1804
Photography. Apparatus for setting type and signs by means of	E. Porzolt	568,988	Oct. 6	477	108	77	91
Photography. Manufacture of mineral colors for ceramic	G. J. Atkins	572,095	Dec. 1	3	.....	77	1279
Phragmite structure	H. M. Van Etten	568,930	Oct. 6	359	83	77	69
Physician's portable case	A. Hoff	559,709	May 5	599	143	75	796
Pianissimo attachment	A. Blondel and E. Porcher	554,387	Feb. 11	1044	243	74	714
Piano	W. A. Bein	561,041	May 26	3101	715	75	1341

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.'s	Vol.	Page.
Piano	G. P. Bent	561,083	June 2	9	2, 3	75	1368
Piano	W. A. Byrne	571,106	Nov. 10	1246	289 290	77	898
Piano	F. Teupe	567,668	Sept. 15	1632	394	76	1612
Piano-action	J. R. Perry	553,567	Jan. 28	1944	459	74	408
Piano-action	S. R. Perry	565,502	Aug. 11	1039	240	76	822
Piano-action	M. Steinert	566,808	Sept. 1	119	29	76	1304
Piano-action. Grand	J. Herrburger	551,706	May 5	597	141	75	796
Piano-action. Grand	A. Nickel	566,928	Sept. 1	332	78	76	1346
Piano-action parts. Automatic machine for produc- ing	W. W. Shailer and H. P. Chapman	567,796	Sept. 15	1839	441 442	76	1652
Piano-action. Upright	C. A. Ahlstrom	560,672	May 26	2455	565	75	1219
Piano-action. Upright	J. W. Fischer	557,261	Mar. 31	3177	762	74	1793
Piano-action. Upright	W. Munroe	570,041	Oct. 27	2316	550	77	477
Piano-action. Upright	A. Nickel	566,927	Sept. 1	330	77	76	1345
Piano attachment	P. Duffy	564,476	July 21	2167	507	76	430
Piano attachment	T. T. Fischer	564,370	July 21	1991	467	76	397
Piano attachment	L. M. French	554,418	Feb. 11	1107	257	74	726
Piano attachment	J. H. Moyer	573,474	Dec. 22	2496	591	77	1805
Piano attachment	J. W. Stevens	559,227	Apr. 28	3071	741	75	628
Piano attachment. Mouse-proof	G. P. Bent	557,353	Mar. 31	3344	803	74	1827
Piano. Automatic	W. D. Parker	560,303	May 19	1768	402 403 404	75	1077
Piano. Automatic	E. H. White and W. D. Parker	573,427	Dec. 15	2399	572	77	1769
Piano-case	T. T. Fischer	553,904	Feb. 4	184	39	74	530
Piano-case	K. A. Modée	555,612	Mar. 3	217	51	74	1170
Piano-case	E. N. Ogden	559,742	May 5	651	157	75	806
Piano-case	W. T. Smith	562,496	June 23	2496	605	75	1900
Piano-chair	M. Huble	554,516	Feb. 11	1269	297	74	756
Piano-coupler	G. H. Arthur	555,632	Mar. 3	253	59	74	1176
Piano-damper	W. A. Bein	580,152	May 12	1478	333	75	975
Piano. Electrical self-playing	G. H. Davis	570,911	Nov. 10	895	208	77	833
Pianoforte	J. H. Clark	571,645	Nov. 17	2145	515	77	1079
Pianoforte	H. Kranich	565,860	Aug. 11	1673	410	76	948
Pianoforte	R. M. Squire	555,409	Feb. 25	2854	673	74	1087
Pianoforte	J. A. Weser	560,247	May 19	1664	379 380 381 382	75	1060
Pianoforte	J. A. Weser	560,249	May 19	1671	381 382	75	1061
Pianoforte-action	T. Cahill	554,108	Feb. 4	565	126 127 128	74	608
Pianoforte-action	T. Cahill	554,109	Feb. 4	569	129 130	74	608
Pianoforte-frame. Metallic	V. H. Mathushek	556,273	Mar. 10	1412	331	74	1411
Pianoforte pedal-lock	G. W. Weser	561,149	June 2	132	35	75	1392
Pianoforte stringing device	G. B. Kelly	564,082	July 14	1495	350	76	293
Piano-frame	E. N. Ogden and A. H. Meech	562,236	June 16	2065	501	75	1803
Piano. Grand	J. Herrburger	571,163	Nov. 10	1338	312	77	916
Piano-hammer	H. B. K. Rosenfeld	557,429	Mar. 31	3480	834	74	1853
Piano-hammer	E. Sherwood	563,079	June 30	3575	858	75	2127
Piano-keyboard coupler	E. A. Boehm	553,829	Feb. 4	17	5	74	508
Piano legato attachment	R. C. Schirmer	558,524	Apr. 21	1790	435	75	372
Piano music-rack	C. R. Elias	557,304	Mar. 31	3257	781	74	1808
Piano or similar stringed instrument	L. W. Blasius	561,959	June 16	1600	388 389	75	1718
Piano-pedal	P. Goldsmith	564,191	July 21	1694	396	76	344
Piano-pedal	K. Schulze	572,316	Dec. 1	413	98	77	1357
Piano-resonator	F. L. Goulin	572,981	Dec. 15	1576	378	77	1616
Piano. Sectional	W. T. Smith	560,656	May 26	2436	557	75	1213
Piano sounding-board	J. H. Butler	570,153	Oct. 27	2522	598	77	516
Piano sounding-board	W. H. Howe	572,897	Dec. 8	1401	339	77	1566
Piano-sounding-board attachment	W. H. Ivers	554,878	Feb. 18	1907	448	74	894
Piano string-bearing	J. Schnorr	572,032	Nov. 24	2841	669	77	1229
Piano tone-modifying attachment	A. H. Stuart	568,050	Sept. 22	2304	559	76	1751
Piano. Upright	J. Diehl	570,787	Nov. 3	669	153	77	761
Piano. Vertical grand	F. Schimmel and S. F. Nelson	560,431	May 19	1999	456 457 458	75	1119
Pianos. Construction of	E. N. Ogden	557,420	Mar. 31	3463	830	74	1849
Pianos. Machine for preparing string-framings for	H. H. Cummings	556,493	Mar. 17	1843	430 431 432	74	1508
Pick	C. E. Barker	572,856	Dec. 8	1344	324	77	1554
Pick	W. H. Scott	563,722	July 7	819	196	76	153
Pick and shovel. Combined	W. H. Sharpington	562,926	June 30	3277	791	75	2067
Pick-handle	J. B. Pouk	561,726	June 9	1196	284	75	1621
Pick holder	A. G. Mahler	570,321	Oct. 27	2874	682	77	581
Pick or similar tool	W. Owen and W. K. Birkinshaw	565,789	Aug. 11	1536	374	76	922
Picks, &c. Eye-forming machine for	C. Rossman	573,109	Dec. 15	1796	433	77	1660
Picker:							
See Bean-picker.	Hop-picker.						
Cotton-picker.	Slate-picker.						
Fruit-picker.							
Picker-stick check	T. Mooney	569,880	Oct. 20	2036	485	77	411
Picking-rod	C. A. Gregory	567,468	Sept. 8	1298	314	76	1534
Picture and picture-hook hanger	G. W. Willard	573,945	Dec. 29	3336	797	77	1977
Picture-frame	J. A. Bocher	560,080	May 12	1350	303	75	950
Picture-frame	E. W. Furrell	561,075	May 26	3149	728	75	1350
Picture-frame	E. Zoller	563,002	June 30	3424	824	75	2098
Picture-frame hanger	C. H. Freeman	561,983	June 16	1639	399	75	1724
Picture-hanger	A. Siddall	571,698	Nov. 17	2234	537	77	1095

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Picture-hanger	E. Wilmont	559,015	Apr. 28	2635	641	75	546
Picture-hanging device	W. P. Cave	558,548	Apr. 21	1822	444	75	378
Picture-mats with oval or elliptical openings. Machine for providing	M. E. Childs	553,278	Jan. 21	1450	349	74	300
Picture-matting cutler	W. H. Murdoch	571,677	Nov. 17	2195	528	77	1088
Picture-moldings. Machine for coating	A. Sparr	559,466	May 5	203	45	75	721
Picture or mirror frames. Back for	C. Schmitt	555,186	Feb. 25	2460	583	74	1013
Picture or mirror frame holder. Adjustable	S. L. Young and J. A. Norris	566,826	Oct. 6	191	46	77	38
Picture or photograph mount	G. R. Booth	561,480	June 2	741	182	75	1510
Picture-support	P. Lindemeyer, Jr.	568,090	Sept. 22	2396	577	76	1768
Picture-support or card-holder	A. B. Bostwick	560,465	May 19	2059	469	75	1129
Picture. Transformation	S. Loyd	563,778	July 14	919	219	76	188
Picture. Transparent transfer	E. E. Pilz	553,539	Jan. 28	1891	.....	74	399
Pictures. Machine for exhibiting and taking	L. P. Thompson	553,369	Jan. 21	1601	{ 381 } 382	74	327
Pictures. Process of and apparatus for copying	L. D. Langworthy	561,797	June 9	1321	316	75	1644
Pie-tin hoop	I. N. Weitzel	567,426	Sept. 8	1230	295	76	1521
Pier-foundations, &c. Method of and apparatus for sinking caissons for	W. D. Washington	563,106	June 30	3619	868	75	2135
Pigeonholes. Display-drawer attachment for	J. D. Warren	567,820	Sept. 15	1894	453	76	1663
Pigment. Preparing oxid. of zinc	G. T. Lewis	556,509	Mar. 17	1884	.....	74	1515
Pigment substitute for white lead and making same. White	S. Ganelin	558,942	Apr. 28	2510	.....	75	522
Pile-driver	J. A. Spangler	569,435	Oct. 13	1234	{ 289 } 290	77	250
Pile fabric	L. Beauregard	556,243	Mar. 10	1353	319	74	1399
Pile fabric	A. Webb, G. M. Whittall, and F. B. Fawcett	573,118	Dec. 15	1811	436	77	1663
Pile fabric. Double-faced woven	J. Coley	558,160	Apr. 14	1156	283	75	236
Pile fabrics. Apparatus for renovating	E. T. Nowlen	562,908	June 30	3246	784	75	2060
Pile point-shoe	J. S. Gustine	563,228	June 30	3826	916	75	2173
Piles from aqueous insects. Means for protecting	H. Gallinowsky	571,654	Nov. 17	2157	518	77	1081
Pill-box. Pocket	A. F. Richardson	564,103	July 14	1535	360	76	301
Pills. Apparatus for sugar-coating	P. J. Noyes	568,488	Sept. 29	3062	737	76	1908
Pillow-holder	A. L. B. McNair	560,422	May 19	1984	453	75	1115
Pillow or cushion	W. Vogler	562,941	June 30	3312	798	75	2075
Pillow. Sham	A. S. Rosenbaum	555,662	Mar. 3	312	73	74	1186
Pilot or signal. Electrical	H. H. Franklin	561,982	June 16	1637	399	75	1724
Pin:							
<i>See</i> Belt-pin. Hair-pin.							
Clothes-pin. Hat-pin.							
Clothes-line pin. Safety-pin.							
Crank-pin. Scart-pin.							
Curtain-stretcher Upholstering-pin.							
pin. Waist and skirt pin.							
Dowel-pin. 							
Pin	J. A. Davidson	558,639	Apr. 21	1976	479	75	405
Pin	S. Waterman	559,013	Apr. 28	2632	641	75	546
Pin-and-catch device	W. H. Strecker and A. D. Moore	569,393	Oct. 13	1166	277	77	238
Pincushion	O. H. Huebel and F. W. Manger	559,032	Apr. 28	2661	648	75	552
Pincushion	J. McCartney	571,169	Nov. 10	1344	314	77	917
Pin-fastening	C. A. Worrall	572,144	Dec. 1	89	19	77	1295
Pin-lock	W. H. Taylor	567,624	Sept. 15	1554	375	76	1596
Pin-pointing machine	G. H. Kephart	557,209	Mar. 31	3090	{ 740 } 741	74	1778
Pince-nez	J. Cottet	560,895	May 26	2870	658	75	1297
Pineapple-knife	M. F. Postley	555,398	Feb. 25	2836	698	74	1083
Pintle-cavities in timber. Machine for cutting	G. H. Cutting	557,054	Mar. 24	2800	665	74	1704
Pipe:							
<i>See</i> Blowpipe. Locomotive exhaust-pipe.							
Bubble-pipe. Reed-pipe.							
Compound pipe. Spraying-pipe.							
Furnace center-blast Stand-pipe.							
pipe. Submerged pipe.							
Lined pipe. Suction-pipe.							
Locomotive blast- Tobacco-pipe.							
pipe. Train-pipe.							
Pipe	J. D. Scott	565,638	Aug. 11	1362	304	76	869
Pipe	R. Wetzel	568,008	Sept. 22	2221	556	76	1737
Pipe and hose coupling	D. C. Wilgus	553,089	Jan. 14	1103	267	74	221
Pipe and nut wrench	P. D. Dye and W. Holmes	554,994	Feb. 18	2113	502	74	932
Pipe and nut wrench. Combined	T. Dixon	569,037	Oct. 6	554	138	77	106
Pipe and nut wrench. Combined	R. J. Thompson	563,519	July 7	480	113	76	91
Pipe. Apparatus for the manufacture of	T. B. Nuttall	566,611	Aug. 25	2986	729	76	1283
Pipe-bending mechanism	W. F. Simmons	567,518	Sept. 8	1373	331	76	1547
Pipe-clamp	F. Anderson	570,975	Nov. 10	999	232	77	833
Pipe-cleaner	W. C. and W. D. Culver	569,371	Oct. 13	1132	270	77	232
Pipe-cleaner	A. P. Rumely	572,724	Dec. 8	1129	272	77	1512
Pipe-cleaner. Beer-	J. Braun	565,600	Aug. 11	1200	289	76	857
Pipe-cleaner. Tobacco-	J. J. Snyder	554,739	Feb. 18	1654	390	74	846
Pipe-cleaning apparatus	C. Peters	557,874	Apr. 7	618	147	75	116
Pipe-cleaning apparatus. Beer-	J. G. Baumgarth	565,591	Aug. 11	1186	285	76	855
Pipe-cleaning device. Beer-	C. Roat	553,019	Jan. 14	970	235	74	196
Pipe-cleaning device. Tobacco-	I. B. Sturges	554,744	Feb. 18	1662	392	74	847
Pipe connection	W. Smith	569,247	Oct. 13	921	220	77	191
Pipe connection. Automatic	H. Reed	555,333	Feb. 25	2726	639	74	1062
Pipe connection. Universal joint	E. J. Knapp	574,249	Dec. 29	3949	939	77	2087
Pipe-cores. Making	A. H. McNeal	570,708	Nov. 3	537	124	77	738
Pipe-corrugating machine	D. H. Stoll	568,635	Sept. 29	3360	806	76	1963
Pipe-coupling	J. W. Cloud	567,735	Sept. 15	1745	418	76	1634
Pipe-coupling	I. P. Doolittle	558,364	Apr. 14	1498	368	75	301
Pipe-coupling	P. and J. Lukasevig	562,189	June 16	1996	423	75	1790
Pipe-coupling	H. F. Noyes	560,815	May 26	2702	621	75	1265
Pipe-coupling	F. C. Schiele	556,106	Mar. 10	1101	262	74	1353

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Pipe-coupling	R. Wigan	557,296	Mar. 31	3243	778	74	1806
Pipe-coupling. Automatic	S. W. Summers	568,466	Sept. 29	3029	727	76	1903
Pipe-coupling. Combination soft and hard metal	S. M. Friede	566,855	Sept. 1	202	46	76	1321
Pipe-coupling device. Automatic	W. E. Crowson	571,216	Nov. 10	1416	331	77	930
Pipe-coupling for steam and air pipes	L. Friedmann	554,255	Feb. 11	823	187	74	672
Pipe-coupling for water-closet bowls, &c.	J. Atkinson and C. F. Plunkett	567,115	Sept. 1	675	157	76	1410
Pipe coupling or union	I. J. French	558,378	Apr. 14	1525	374	75	305
Pipe coupling. Steam	T. H. Müller and H. R. Winkelmann	559,945	May 12	1095	243	75	901
Pipe-covering mold	G. Armstrong	557,351	Mar. 31	3341	802	74	1826
Pipe coverings. Apparatus for making steam	J. M. Bolton	555,071	Feb. 25	2260	539	74	973
Pipe-cutter	W. Anderson	553,663	Jan. 28	2107	498	74	436
Pipe-cutter	J. J. Griffin	565,267	Aug. 4	605	143	76	726
Pipe-cutter	W. Haas	570,751	Nov. 3	615	142	77	751
Pipe-cutter	J. N. Marso	554,028	Feb. 4	415	91	74	581
Pipe-cutter	C. Roberts and C. H. Hollister	565,569	Aug. 11	1145	276	76	847
Pipe-cutter. Inside	R. Herbers	572,203	Dec. 1	183	45	77	1313
Pipe cutting and threading machine	L. B. Curtis	559,791	May 12	765	184	75	841
Pipe. Draw-bench for manufacturing	P. Boyd	557,478	Mar. 31	3556	850	74	1867
Pipe. Draw-bench for manufacturing	P. Boyd	557,479	Mar. 31	3558	851	74	1867
Pipe-drying apparatus	H. B. Lynch	561,713	June 9	1167	278	75	1616
Pipe-finishing apparatus	J. M. Bailey	569,014	Oct. 6	516	118	77	98
Pipe-fitter's combination-tool	D. Kritcher and C. Weinstein	570,934	Nov. 10	937	218	77	842
Pipe-hanger	A. B. Carrl	552,986	Jan. 14	921	223	74	1-6
Pipe-hanger	B. W. Grist	569,755	Oct. 20	1842	437	77	375
Pipe-hanger	C. W. Hodgdon	555,913	Mar. 3	727	176	74	1265
Pipe-hanger	E. H. Israel	558,391	Apr. 14	1552	378	75	310
Pipe-hanger	L. Kling	568,690	Aug. 25	3109	759	76	1255
Pipe-hanger	J. P. Swan	566,810	Sept. 1	120	30	76	1304
Pipe-holder	J. A. and G. M. Bower	552,951	Jan. 14	866	210	74	176
Pipe-joining apparatus	G. Hoyer	568,574	Sept. 29	3242	780	76	1942
Pipe-joint	J. A. Nelson	567,862	Sept. 15	1964	471	76	1677
Pipe-joint. Electrically welded	A. H. and I. C. Matatall	569,836	Oct. 20	1968	468	77	399
Pipe-joint. Flexible	A. P. Jerguson and W. W. Hunt	570,405	Oct. 27	3023	716	77	609
Pipe-joints. Inclosing seal for	A. H. Bernstein	565,874	Aug. 18	1696	415	76	969
Pipe lock. Sheet-metal	W. C. Cronmeyer	564,147	July 14	1603	375	76	316
Pipe. Machine for manufacturing sewer	W. W. Wallace	555,838	Mar. 3	579	139	74	1235
Pipe. Method of and apparatus for coating	H. B. Lynch	561,712	June 9	1165	277	75	1616
Pipe-manufacturing apparatus	A. M. Hewlett	552,905	Jan. 14	786	190	74	160
Pipe-nipple-threading machine. Double-ended	J. C. Williams	553,144	Jan. 14	1190	289	74	239
Pipe-nipples. Tool for holding	T. Schulze	570,233	Oct. 27	2668	634	77	544
Pipe or bar for coating with metal. Method of and apparatus for preparing	H. B. Lynch	561,716	June 9	1174	279	75	1617
Pipe or bar iron. Storage-floor for	H. B. Lynch	561,715	June 9	1172	279	75	1617
Pipe or bar. Method of and apparatus for pickling	H. B. Lynch	561,714	June 9	1169	278	75	1617
Pipe or tubing corrugating machine	S. S. Sergeant	569,431	Oct. 13	1224	287	77	248
Pipe-patch	N. E. Smith	573,491	Dec. 22	2525	598	77	1809
Pipe pattern. Iron	J. and G. Thomson	571,413	Nov. 17	1745	416	77	1006
Pipe-plate	G. S. Beith	570,368	Oct. 27	2950	700	77	596
Pipe-section fastening	J. A. Hadley	556,627	Mar. 17	2071	485	74	1549
Pipe-sections. Apparatus for forming couplings for	H. E. Boyd	565,257	Aug. 4	592	139	76	724
Pipe-shears	T. B. Nuttall	572,767	Dec. 8	1202	291	77	1525
Pipe-sleeve	W. W. Doolittle	560,847	May 26	2774	636	75	1280
Pipe-stem cleaner	F. A. Frick	566,570	Aug. 25	2929	715	76	1221
Pipe-stem cleaners. Machine for making	F. A. Frick	563,367	July 7	225	51, 52	76	46
Pipe-testing device	S. G. Howe	571,725	Nov. 17	2278	547	77	1104
Pipe-thimble	D. A. Brislin	564,967	Aug. 4	10	3	76	618
Pipe-thread protector	W. H. Pickett	562,339	June 16	2251	545	75	1837
Pipe truing and dressing machine	J. M. Bailey	566,123	Aug. 18	2144	522	76	1056
Pipe-turner	S. McAdoo	566,996	Sept. 1	464	107	76	1369
Pipe-union	L. P. King	565,411	Aug. 4	831	196	76	770
Pipe-wrench	A. W. Freeman	562,719	June 23	2891	702	75	1974
Pipe-wrench	W. I. Freeman	567,229	Sept. 8	863	206	76	1456
Pipe-wrench	E. B. Frizelle	561,578	June 9	929	222	75	1571
Pipe-wrench	W. S. Gilmore	566,678	Aug. 25	3089	754	76	1252
Pipe-wrench	W. Houghton	567,715	Sept. 15	1711	411	76	1628
Pipe-wrench	A. F. Jackson	572,757	Dec. 8	1186	285	77	1523
Pipe-wrench	K. A. Klose	560,220	May 19	1613	364	75	1052
Pipe-wrench	P. M. Knopp	557,587	Apr. 7	106	27	75	21
Pipe-wrench	E. B. Lilly	554,885	Feb. 18	1918	451	74	896
Pipe-wrench	J. Musgrave and W. Cook	567,492	Sept. 8	1335	322	76	1541
Pipe-wrench	E. Pember	553,015	Jan. 14	965	233	74	195
Pipe-wrench	J. H. Pierce	573,999	Dec. 29	3451	826	77	1998
Pipe-wrench	D. R. Porter	556,834	Mar. 24	2421	569	74	1632
Pipe-wrench	G. F. Rice	561,340	June 2	492	124	75	1465
Pipe-wrench	J. K. Sheffy	553,362	Jan. 21	1589	379	74	325
Pipe-wrench	G. D. Stevens	562,101	June 16	1851	449	75	1762
Pipe-wrench	J. T. Wiley and E. E. Boyd	568,966	Oct. 6	430	95	77	83
Pipe-wrench	E. Wright	562,878	June 30	3197	773	75	2050
Pipe wrench and cutter. Combined	H. C. Atkinson	569,533	Oct. 13	1399	331	77	280
Pipe-wrench. Chain	G. F. Crass	555,931	Mar. 10	766	184	74	1293
Pipe wrench. Chain	W. H. Pickett	568,697	Sept. 29	3475	832	76	1986
Pipes. Adjustable external joint for escape	F. R. Nies	559,305	Apr. 28	3191	772	75	650
Pipes. Adjustable outlet-gate for ventilating	J. McCreery	574,104	Dec. 29	3638	869	77	2032
Pipes and bolts. Manufacture of thread-protectors for	J. M. Davidson	560,610	May 19	2297	526	75	1173
Pipes. Apparatus for making steam	R. D. Smillie	560,629	Aug. 25	3010	735	76	1238

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. \$	Vol.	Page.
Pipes. Clear-out for soil.	F. Hooper	572,114	Dec. 1	34	8	77	1284
Pipes, &c. Composition of matter for sewer or water.	J. Morhard	568,318	Sept. 22	2779		76	1841
Pipes containing fluid under pressure. Expansion or telescopic joint for	J. P. Burnham	571,337	Nov. 17	1628	326	77	985
Pipes. Device for preventing accumulation of air in pressure.	J. W. Hartman	571,364	Nov. 17	1670	396	77	992
Pipes. Device for thawing frozen	S. D. Silver	558,992	Apr. 28	2593	631	75	538
Pipes. Flexible elbow for connecting	C. R. Schmidt	561,441	June 2	680	166	75	1498
Pipes. Flexible elbow for connecting	C. R. Schmidt	561,442	June 2	681	167	75	1498
Pipes having bell ends. Making joints for	G. Lehlbach	572,901	Dec. 8	1406	341	77	1567
Pipes. Instrument for removing obstructions from.	W. C. Dillman	558,549	Apr. 21	1823	444	75	379
Pipes. Jacket for steam.	J. D. H. Reimer	568,989	Oct. 6	480	109	77	91
Pipes. Machine for making cement-lined	E. H. Phipps	556,160	Mar. 10	1206	282	74	1373
Pipes. Machine for manufacturing lead	J. F. Wolff	559,880	May 12	976	218	75	880
Pipes. Patch for pressure.	T. F. Long	564,251	July 21	1784	417	76	362
Pipes. Preventing freezing of gas.	J. Bueb	559,992	May 12	1180		75	921
Pipes. Telescopic joint for steam.	J. P. Burnham	553,509	Jan. 28	1834	435	74	387
Pipes. Tool for expanding ends of lead.	J. Anderson	559,763	May 5	714	169	75	817
Pipette.	P. M. Sharples	553,044	Jan. 14	1010	247	74	203
Pistol for shooting marbles. Spring.	W. J. Sleflel, Jr	559,625	May 5	470	109	75	773
Pistol. Magazine.	M. Bye	562,455	June 23	2438	592	75	1889
Pistol. Magazine.	W. H. Gates	566,513	Aug. 25	2849	693	76	1205
Pistol. Magazine.	P. B. Latrige	573,338	Dec. 15	2220	530	77	1735
Pistol. Magazine.	A. C. Wright	566,367	Aug. 25	2562	626	76	1152
Pistol. Recoil magazine.	H. Borchardt	571,260	Nov. 10	1493	351	77	944
Pistols or revolvers. Stock and barrel extension for	G. B. Pittavino	570,145	Oct. 27	2509	595	77	514
Piston	H. H. Merrill	560,004	May 12	1201	266	75	924
Piston	E. H. Oderman	560,918	May 26	2906	666	75	1304
Piston-head	M. F. Ross	564,257	July 21	1797	421	76	364
Piston-rod and cross-head connection.	E. J. Muller	555,656	Mar. 3	301	71	74	1184
Piston. Steam-engine	E. J. Armstrong	569,532	Oct. 13	1398	330	77	980
Pitcher. Molasses.	S. P. Brown	573,759	Dec. 22	3003	711	77	1901
Pitcher or other vessel.	J. Putnam	569,351	Oct. 13	1101	261	77	227
Pitcher or pot.	F. Zahn	567,501	Sept. 15	1862	445	76	1656
Pitcher-shield.	N. Curtis and H. Schneider	563,912	July 14	1185	279	76	237
Pitcher. Syrup.	H. Noice	555,395	Feb. 25	2831	667	74	1082
Pitchers, &c. Foot for.	W. McAusland	570,325	Oct. 27	2879	684	77	5e2
Pitching apparatus	M. Guethler	573,818	Dec. 22	3098	736	77	1919
Pitman.	A. J. Williams	561,639	June 9	1030	247	75	1590
Pitman	A. C. Wilson	566,365	Aug. 25	2560	626	76	1151
Placer-machine	H. A. Walker	553,817	Jan. 28	2363	563	74	485
Placket-fastener	J. Determan	560,085	May 12	1358	304	75	952
Placket-fastener	C. F. Littlejohn	566,270	Aug. 18	2369	580	76	1100
Placket-fastener	C. H. Snively and J. Hirsch	556,070	Mar. 10	1043	248	74	1342
Plaiting-machine	J. Dumville, Jr., and C. Holly	556,495	Mar. 17	1854	432	74	1509
Plaiting-machine.	C. C. Emmons	557,500	Mar. 31	3605	883	74	1876
Plaiting-machine.	B. Kippels and W. Zeller	564,893	July 28	2881	693	76	578
Plaiting-machine.	W. A. Lorenz	559,139	Apr. 28	2889	696	75	594
Plane. Carpenter's.	G. S. Smith	556,835	Mar. 24	2422	569	74	1632
Plane. Core-box.	J. A. Traut	556,114	Mar. 10	1115	265	74	1355
Plane. Miter or bevel	J. A. Traut and E. A. Schade	553,322	Jan. 21	1519	364	74	312
Planer	C. J. L. Meyer	559,396	May 5	84	18	75	697
Planer feed stop mechanism	A. M. Powell	562,481	June 23	2476	601	75	1896
Planer-knife	S. J. Shimer	555,741	Mar. 3	436	103	74	1208
Planing and resawing machine.	G. Lhote	569,288	Oct. 13	982	236	77	203
Planing apparatus	G. A. Ensign	557,327	Mar. 31	3296	791	74	1816
Planing-machine	G. D. Eddy	556,091	Mar. 10	1077	257	74	1349
Planing-machine	G. A. Ensign	567,085	Sept. 1	626	145	76	1401
Planing-machine	G. Gocher and J. D. Schrecongost.	574,146	Dec. 29	3714	885	77	2045
Planing machine for shaping warped or irregular surfaces. Wood.	E. L. Taft	561,359	June 2	523	132	75	1471
Planing machine. Wood.	G. T. Lawrence and H. R. Tillison	566,082	Aug. 18	2066	503	76	1042
Planing-machines. Rotary cutter for	G. Dupes	553,280	Jan. 21	1453	349	74	300
Planing or molding machine	F. R. Patch	572,443	Dec. 1	629	149	77	1397
Planetarium	J. M. Chaney	561,488	June 2	759	186	75	1513
Planetarium	J. M. Chaney	573,137	Dec. 15	1851	446	77	1669
Planimeter	A. C. Lippincott.	569,107	Oct. 6	668	155	77	127
Planimeter.	E. J. Willis. (Reissue)	11,568	Sept. 22	2785	670	76	1242
Plant-protector	G. W. Boyd	558,346	Apr. 14	1465	360	75	294
Plant-protector	J. G. Peace	559,597	May 5	420	100	75	764
Plant-protector	G. Williams	563,532	July 7	502	117	76	95
Plant-supporting device.	J. Horan	565,540	Aug. 11	1090	262	76	838
Plant thinner and weeder.	J. Koegel	565,906	Aug. 18	1764	429	76	983
Plants. Convertible cover and pot for	E. Siskron	561,324	June 9	1367	328	75	1652
Plants. Inoculation of the soil for cultivating leguminous	F. Nobbe and L. Hiltner	570,813	Nov. 3	713		77	770
Plants. Means for supporting and handling potted.	G. W. Parmley	559,200	Apr. 28	3003	726	75	617
Plants. Reduction of pithy.	M. W. Marsden	572,091	Nov. 24	2996	703	77	1256
Planter	H. S. Blood	568,598	Sept. 29	3298	791	76	1951
Planter	W. W. Brady	563,129	June 30	3657	876	75	2142
Planter	J. J. Dewberry	556,405	Mar. 17	1681	392	74	1476
Planter	E. Moon	563,503	July 7	452	106	76	87
Planter	E. A. Ovenshire	559,401	May 5	95	20, 21	75	699
Planter	O. O. Ovre	568,270	Sept. 22	2696	646	76	1825

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Planter	C. M. Risley	556,588	Mar. 17	2009	{ 469 470 489 490	{ 74 77	1537 415
Planter	J. W. Stancil	569,891	Oct. 20	2058	{ 384 385 386 387	{ 74 75 76 77	415 6 576 1405
Planter and cultivator. Corn	W. G. Bixler	557,544	Apr. 7	22	6	75	6
Planter and cultivator. Cotton	S. V. Weeks	554,013	Feb. 4	384	84.85	74	576
Planter and cultivator. Seed	V. V. Hill and M. Holman	567,098	Sept. 1	649	151	76	1405
Planter and fertilizer-distributor	A. J. H. Reid	554,729	Feb. 18	1633	386	74	843
Planter and fertilizer-distributor. Combined	A. J. Johnson	564,520	July 21	2232	524	76	442
Planter and fertilizer-distributor. Combined corn	R. W. Jones	555,044	Feb. 18	2216	{ 528 529	{ 74 75	949 999
Planter and guano-distributor. Seed	O. R. F. Whitten	565,949	Aug. 18	1841	448	76	999
Planter and transplanter. Combined potato	A. M. Bryson	557,483	Mar. 31	3564	852	74	1869
Planter attachment. Corn	A. J. Thomas	564,545	July 21	2273	533	76	449
Planter attachment. Seed	S. J. Adkins	558,335	Apr. 14	1450	{ 356 357	{ 75 76	292 1702
Planter. Bean	C. H. Bidwell	557,046	Mar. 24	2789	663	74	1702
Planter check-row attachment. Corn	J. J. Gaynor and L. A. Smith	568,607	Sept. 29	3313	794	76	1955
Planter check-row attachment. Corn	W. H. Jarmin	565,902	Aug. 18	1736	426	76	976
Planter check-row attachment. Corn	E. Krick	569,209	Oct. 13	849	200	77	178
Planter. Check-row corn	R. H. Fishbaugh	566,975	Sept. 1	425	{ 99 100	{ 76 77	1362 649
Planter. Check-row corn	F. Gunther	570,474	Nov. 3	61	15	77	649
Planter. Check-row corn	A. Hearst	566,576	Aug. 25	2939	717	76	1223
Planter. Check-row corn	J. W. Lindquist	560,908	May 26	2886	{ 662 663	{ 75 76	1300 1762
Planter. Check-row corn	R. R. Spear	557,160	Mar. 31	2982	712	74	1762
Planter. Check-row corn	L. J. and G. S. Strait	559,825	May 12	859	191	75	858
Planter. Check-row potato	T. H. Williams	568,651	Sept. 29	3394	{ 812 813	{ 76 77	1970 1444
Planter. Combined check-row and drill corn	E. K. Hayes	559,892	May 12	1005	225	75	886
Planter. Combined potato and corn	A. Sweetland	568,639	Sept. 29	3369	807	76	1965
Planter. Convertible corn	J. Kaylor	555,319	Feb. 25	2704	634	74	1058
Planter. Corn	R. Boyd	558,768	Apr. 21	2202	530	75	447
Planter. Corn	G. W. Campbell	553,728	Jan. 28	2324	527	74	459
Planter. Corn	J. Coffits	566,842	Sept. 1	181	41.42	76	1317
Planter. Corn	H. E. Fairchild	564,604	July 28	2400	566	76	490
Planter. Corn	C. Florence	570,847	Nov. 3	780	178	77	784
Planter. Corn	T. S. Grandstaff	554,262	Feb. 11	834	191	74	674
Planter. Corn	G. D. Haworth	572,543	Dec. 8	792	{ 189 190	{ 77 78	1444 514
Planter. Corn	H. H. Hoobler and M. P. Headlee	553,913	Feb. 4	211	45.46	74	514
Planter. Corn	J. B. Jarmin	554,367	Feb. 11	1013	{ 234 235	{ 74 75	708 1643
Planter. Corn	S. H. Jones	561,791	June 9	1314	314	75	1643
Planter. Corn	M. Sattley and M. Heineke	566,804	Sept. 1	114	28	76	1303
Planter. Corn	C. Stadfield	568,722	Sept. 29	3519	843	76	1995
Planter. Corn	N. O. Starks	555,713	Mar. 3	386	89.90	74	1199
Planter. Corn	A. A. Stinchcomb	564,658	July 28	2482	586	76	507
Planter. Corn	E. E. Towle	555,749	Mar. 3	447	106	74	1210
Planter. Corn	C. E. White	557,739	Apr. 7	388	91.92	75	74
Planter. Corn and seed	J. R. Ezzell	568,434	Sept. 29	2975	715	76	1893
Planter. Cotton	W. W. Kent	556,524	Mar. 24	2407	{ 565 566	{ 74 75	1629 492
Planter, cultivator, and harrow. Combined	M. B. Gooing	564,612	July 28	2411	569	76	492
Planter drilling attachment. Corn	R. Murchison	574,208	Dec. 29	3875	923	77	2073
Planter feed. Pea	T. R. Crane	555,896	Mar. 3	701	169	74	1260
Planter. Hand	J. F. Ganson	571,614	Nov. 17	2094	503	77	1069
Planter. Hand	H. H. Wabers	566,635	Aug. 25	3017	737	76	1239
Planter. Hand corn	U. Shaeffer	571,935	Nov. 24	2684	635	77	1201
Planter. Hand potato	J. Colgrove	560,840	May 26	2758	632	75	1276
Planter land marker	C. H. Myers	557,859	Apr. 7	585	141	75	112
Planter marker	H. L. Steel and R. Goldsberry	555,538	Mar. 3	91	20	74	1147
Planter. Pea	R. E. Dunham	572,876	Dec. 8	1373	333	77	1560
Planter. Potato	F. Ayer	555,918	Mar. 10	742	179	74	1288
Planter. Potato	T. Bidelman	569,948	Oct. 20	2165	{ 513 514	{ 77 78	435 1363
Planter. Potato	C. N. Choate	556,134	Mar. 10	1154	271	74	1363
Planter. Potato	H. K. Harrison	568,442	Sept. 29	2968	{ 718 719	{ 76 77	1895 423
Planter. Potato	J. Jessop	553,618	Jan. 28	2028	480	74	423
Planter. Potato	M. L. Manley	574,037	Dec. 29	3517	840	77	2009
Planter. Potato	N. M. Nelson	557,865	Apr. 7	605	144	75	114
Planter. Potato	G. C. Sherman	552,929	Jan. 14	828	201	74	169
Planter. Potato	J. W. Underhill	573,054	Dec. 15	1703	408	77	1642
Planter. Potato	T. H. Williams	554,015	Feb. 4	388	85	74	576
Planter. Seed	J. C. Leissler	562,188	June 16	1995	{ 482 483	{ 75 76	1790 1527
Planter. Seed	F. A. McKee	556,551	Mar. 17	1952	455	74	1527
Planter. Seed	J. A. Mengel, G. K. Binkley, and G. H. Gerber	557,136	Mar. 31	2938	703	74	1754
Planter seed-dropper. Corn	W. M. Frank	557,987	Apr. 7	822	195	75	155
Planter sight-feed	J. D. Schofield	552,552	Jan. 7	83	23	74	18
Planter, stalk-cutter, and roller. Convertible corn and cotton	C. S. Mauldin	559,300	Apr. 28	3185	770	75	649
Planter. Strawberry	L. B. Schell	558,849	Apr. 21	2333	568	75	472
Planter. Walking seed	L. White	554,159	Feb. 4	661	149	74	626
Planters. Check-wire reel for corn	G. C. Janney	556,268	Mar. 10	1403	{ 329 330	{ 74 75	1410 1163
Planters. Dropping and marking attachment for corn	G. Hanke, G. W. Cox, and J. B. Wilson	560,581	May 19	2247	515	75	1163
Planters. Field-anchor for check-row corn	A. McDonald	564,710	July 28	2567	608	76	522
Planting attachment	H. L. Cooke	552,515	Jan. 7	23	8	74	7
Planting-machine	W. E. Cheeseman	570,905	Nov. 10	884	206	77	831

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Planting machine. Corn.....	H. Hall.....	557,671	Apr. 7	268	64	75	50
Planting machine. Seed.....	E. S. Benham.....	564,550	July 21	2282	536	76	450
Plaster.....	T. W. Heinemann.....	554,183	Feb. 4	699	74	633	
Plaster.....	W. M. Reese.....	554,142	Feb. 4	630	74	620	
Plaster compound.....	C. Alluisi.....	562,449	June 23	2429	75	1887	
Plaster. Corn.....	A. E. Isaacs.....	565,901	Aug. 18	1735	425	76	976
Plaster-supporting strip or lath. Corner.....	F. L. Union.....	560,605	May 19	2929	525	75	1171
Plastering compound.....	J. E. Summers.....	558,434	Apr. 14	1636	75	327	
Plastering compound.....	J. E. Summers.....	558,435	Apr. 14	1637	75	327	
Plastic compositions. Making articles from homogeneous.....	T. G. B. Goldmann.....	561,938	June 9	1559	75	1689	
Plastic material. Machine for molding.....	F. M. Leavitt.....	558,500	Apr. 21	1750	{ 424 425 }	75	364
Plate conveying and hoisting buggy.....	J. F. Pankhurst.....	567,001	Sept. 1	475	110	76	1371
Plate-lifter.....	W. H. Craig.....	561,969	June 16	1614	392	75	1730
Plate-lifter.....	W. J. Cranford.....	557,255	Mar. 31	3169	760	74	1792
Plate lifter and turner.....	A. M. and H. L. Burnham.....	558,154	Apr. 14	1149	281	75	235
Plate lifter. Pie.....	C. P. Johnson.....	564,285	July 21	1852	433	76	372
Plate or pan lifter.....	W. J. Shaffer.....	554,545	Feb. 11	1313	308	74	765
Plates. Glass-holding attachment for.....	A. C. McDonald.....	556,200	Mar. 10	1281	299	74	1386
Platform: See Hoisting and dump- ing platform.							
Platform.....	A. R. Saxton and F. H. Reeder.....	557,026	Mar. 24	2760	655	74	1696
Platform and gang-plank. Combined.....	J. A. Powell.....	571,497	Nov. 17	1897	452	77	1033
Plating apparatus.....	J. T. Morrow.....	569,722	Oct. 20	1780	423	77	365
Plating. Nickel.....	H. L. Haas.....	564,748	July 28	2644	629	76	535
Plating or facing inferior with superior metals.....	J. Baker.....	552,979	Jan. 14	913	221	74	185
Pleasure-wheel.....	J. Thannheimer.....	563,894	July 14	1152	{ 270 271 }	76	231
Pliers.....	W. H. Metzger.....	562,552	June 23	2583	627	75	1916
Pliers. Cutting.....	C. P. Fay.....	568,242	Sept. 22	2657	636	76	1817
Pliers. Cutting.....	C. Morrill.....	555,108	Feb. 25	2334	554	74	989
Pliers or similar tool.....	B. L. Toquet.....	562,260	June 16	2103	510	75	1810
Pliers. Parallel-jaw.....	A. Schatz.....	557,615	Apr. 7	151	39	75	30
Pliers. Parallel-jaw.....	A. Schatz.....	571,021	Nov. 10	1081	253	77	868
Plow.....	H. Bakke and O. Nordley.....	568,558	Sept. 29	3209	773	76	1934
Plow.....	B. Ballenger.....	568,153	Sept. 22	2506	603	76	1789
Plow.....	J. J. Bonen.....	556,247	Mar. 10	1359	320	74	1400
Plow.....	T. M. Bowers.....	560,466	May 19	2060	469	75	1129
Plow.....	W. H. Bradshaw.....	552,886	Jan. 14	735	179	74	151
Plow.....	G. J. Bucky.....	568,426	Sept. 29	2963	711	76	1890
Plow.....	W. R. Carroll.....	567,220	Sept. 8	846	200	76	1453
Plow.....	W. Dickie.....	556,256	Mar. 10	1373	323	74	1403
Plow.....	R. C. Fay.....	562,814	June 30	3067	742	75	2025
Plow.....	J. Fouché.....	568,942	Oct. 6	384	87	77	74
Plow.....	W. C. Fuller.....	556,344	Mar. 17	1567	387	74	1454
Plow.....	J. W. Goodall.....	558,275	Apr. 14	1355	331	75	273
Plow.....	P. J. Heller.....	567,136	Sept. 8	722	169	76	1431
Plow.....	C. A. Hopkins.....	561,227	June 2	265	66	75	1419
Plow.....	E. B. James.....	553,914	Feb. 4	216	46	74	545
Plow.....	H. Johnston.....	566,768	Sept. 1	59	15	76	1291
Plow.....	W. B. Kelly.....	562,618	June 23	2717	658	75	1941
Plow.....	M. Morano and W. D. Gann.....	557,596	Apr. 7	123	32	75	24
Plow.....	M. M. Mullins.....	554,947	Feb. 18	2017	477	74	914
Plow.....	J. Oliver.....	557,999	Apr. 7	864	217	75	162
Plow.....	W. R. Oyler.....	566,218	Aug. 18	2296	562	76	1066
Plow.....	J. Plenty.....	562,485	June 23	2481	602	75	1897
Plow.....	R. H. Purnell.....	572,028	Nov. 24	2830	667	77	1227
Plow.....	S. P. Richmond.....	571,698	Nov. 17	2211	{ 532 533 }	77	1091
Plow.....	W. H. Richter.....	563,065	June 30	3523	846	75	2117
Plow.....	V. E. Sapp.....	556,376	Mar. 17	1633	382	74	1467
Plow.....	S. G. Sevier.....	570,822	Nov. 3	728	167	77	773
Plow.....	T. B. Snyder.....	562,672	June 23	2802	680	75	1957
Plow.....	W. Stephens.....	573,368	Dec. 15	2268	541	77	1745
Plow.....	W. Strait.....	561,625	June 9	1008	242	75	1585
Plow.....	H. Symmank and E. Matthijez.....	559,229	Apr. 28	3073	742	75	628
Plow.....	C. E. White.....	571,421	Nov. 17	1759	419	77	1009
Plow.....	G. Wiard.....	552,945	Jan. 14	859	207	74	175
Plow.....	H. J. Wildhagen.....	566,641	Aug. 25	3026	740	76	1241
Plow.....	R. L. Yeager.....	554,564	Feb. 11	1341	314	74	770
Plow and seeder. Combined.....	J. Porteous.....	568,100	Sept. 22	2413	582	76	1772
Plow attachment.....	J. N. Cocks.....	573,504	Dec. 22	2545	603	77	1813
Plow attachment.....	S. D. McMillan.....	555,327	Feb. 25	2720	637	74	1061
Plow attachment.....	W. H. McMullen.....	574,211	Dec. 29	3880	924	77	2074
Plow attachment.....	B. Park.....	558,098	Apr. 14	1062	261	75	217
Plow attachment.....	H. White.....	571,466	Nov. 17	1835	437	77	1023
Plow attachment.....	B. L. Wyatt.....	564,170	July 14	1660	388	76	325
Plow attachment. Gang or sulky.....	A. F. Jackson.....	562,832	June 30	3108	{ 752 753 }	75	2033
Plow attachment. Sulky.....	J. Q. Mann.....	569,291	Oct. 13	989	237	77	204
Plow-beam.....	F. R. Parish.....	568,457	Sept. 29	3017	725	76	1901
Plow-caster attachment.....	G. W. Waters.....	560,952	May 26	2962	620	75	1315
Plow-clamp, abutment, and scraper-holder.....	R. R. McClurg and J. W. Phillips.....	557,689	Apr. 7	294	71	75	56
Plow. Combination.....	J. R. Dean.....	563,752	July 14	872	{ 207 208 }	76	179
Plow. Combination.....	E. C. Schroeder.....	566,414	Aug. 25	2651	647	76	1170
Plow. Combination.....	W. H. Sutton.....	563,518	July 7	479	113	76	91
Plow. Disk.....	S. Campbell.....	553,510	Jan. 28	1836	435	74	388
Plow. Disk.....	J. A. Stewart.....	557,624	Apr. 7	164	43	75	32
Plow. Disk gang.....	S. H. Miller.....	568,094	Sept. 22	2402	{ 578 579 }	76	1769

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Plow. Double-shovel.....	M. Oliver.....	566,528	Aug. 25	2871	{ 697 698	{ 76	1210
Plow. Duplex shovel.....	G. W. Long and W. S. Fisher.....	562,311	June 16	2189	532	75	1826
Plow-fender.....	A. G. W. Foster.....	571,223	Nov. 10	1428	334	77	932
Plow. Gang.....	H. Sommerfeld.....	562,932	June 30	3248	794	75	2069
Plow. Garden.....	R. H. Hick.....	558,492	Apr. 21	1739	421	75	362
Plow grain-drill attachment. Gang.....	A. J. Malsbary.....	553,926	Feb. 4	233	51	74	548
Plow. Hand garden.....	L. Van Horn.....	561,455	June 2	702	173	75	1502
Plow harrow attachment.....	P. B. Hayden.....	557,269	Mar. 31	3195	767	74	1796
Plow. Hillside.....	A. C. Rosencranz.....	555,055	Feb. 18	2235	533	74	952
Plow. Hillside.....	A. C. Rosencranz.....	568,279	Sept. 22	2715	651	76	1829
Plow-landside.....	G. C. Christenson.....	566,659	Aug. 25	3052	746	76	1245
Plow-moldboard.....	J. Oliver.....	553,930	Feb. 4	240	52	74	550
Plow planter attachment.....	W. V. Payne.....	552,923	Jan. 14	816	198	74	166
Plow-point.....	F. A. Martin.....	570,673	Nov. 3	476	111	77	727
Plow point and share.....	A. C. Rosencranz.....	562,244	June 16	2079	504	75	1806
Plow. Potato.....	L. Hindermeier.....	567,475	Sept. 8	1306	316	76	1536
Plow. Reversible.....	E. J. Lotze.....	573,824	Dec. 22	3123	{ 743 744	{ 77	1824
Plow. Reversible.....	C. Stroebel.....	562,048	June 16	1754	424	75	1746
Plow. Revolving.....	F. Marshall.....	561,717	June 9	1178	280	75	1618
Plow. Riding.....	C. S. Ruef.....	553,600	Jan. 23	1999	474	74	418
Plow. Rotary.....	J. H. Frost.....	569,630	Oct. 20	1595	{ 376 377	{ 77	332
Plow. Rotary.....	L. D. Railsback.....	555,331	Feb. 25	2724	{ 638 639	{ 74	1062
Plow. Rotary.....	B. W. Kyle.....	563,973	July 14	1297	303	76	256
Plow. Rotary.....	G. Spalding and J. S. Robbins.....	563,515	July 7	475	112	78	90
Plow. Rotary-disk.....	C. A. Hardy.....	556,972	Mar. 24	2652	623	74	1676
Plow. Rotary-disk.....	G. Spalding and J. S. Robbins.....	563,514	July 7	473	111	76	90
Plow-scraper.....	R. L. Jackson.....	563,378	July 7	247	55	76	50
Plow seed-planter attachment.....	G. W. Deane.....	567,335	Sept. 8	1075	257	76	1493
Plow. Shovel.....	T. L. Bulow.....	556,529	Mar. 17	1921	447	74	1521
Plow-stock.....	J. F. Peele.....	552,545	Jan. 7	73	20	74	17
Plow. Subsoil.....	A. B. Cummings.....	555,804	Mar. 3	525	127	74	1225
Plow. Subsoil.....	E. M. Hickman.....	565,352	Aug. 4	736	176	76	753
Plow. Subsoil.....	J. A. Minor and J. J. Hoover.....	558,195	Apr. 14	1214	296	75	247
Plow. Subsoil.....	F. D. Tucker.....	570,192	Oct. 27	2591	615	77	529
Plow subsoil attachment.....	C. J. and D. A. Giffin.....	556,463	Mar. 17	1796	417	74	1498
Plow. Sulky.....	C. Anderson.....	552,571	Jan. 7	115	32	74	23
Plow. Sulky.....	A. F. Bergqvist.....	561,477	June 2	737	181	75	1509
Plow. Swivel.....	C. M. Lufkin.....	570,177	Oct. 27	2563	610	77	525
Plow. Wheel.....	O. Christiansen.....	556,735	Mar. 24	2243	{ 524 525	{ 74	1599
Plow. Wheel.....	J. R. Jones.....	566,584	Aug. 25	2951	720	76	1226
Plow. Wheeled.....	W. N. Curtis.....	561,768	June 9	1267	302	75	1635
Plow. Wheeled.....	S. B. Secrist.....	553,874	Feb. 4	117	23	74	528
Plow. Wheeled.....	G. Spalding and J. S. Robbins.....	563,516	July 7	476	112	76	91
Plows. Adjustable landside-shoe for.....	F. E. Wertz.....	574,293	Dec. 29	4022	955	77	2101
Plowshares. Handle-clamp for holding.....	C. Nerud.....	564,097	July 14	1519	355	76	299
Plowing apparatus. Steam.....	E. Ingleton.....	557,822	Apr. 7	532	{ 127 128	{ 75	100
Plowing by electricity.....	F. Brutschke.....	559,256	Apr. 28	3119	{ 753 754	{ 75	637
Plowing-machine.....	A. Anderson.....	558,336	Apr. 14	1452	357	75	292
Plug.....	D. L. McCorkindale.....	572,365	Dec. 1	496	116	77	1372
Plumb and level.....	D. W. Fish and J. J. Joyce.....	557,983	Apr. 7	817	194	75	154
Plumb-bob-adjusting device.....	A. B. Smith.....	564,316	July 21	1900	449	76	381
Plumb-support.....	J. H. Weir.....	572,390	Dec. 1	555	131	77	1383
Plumber's ladle.....	T. J. Cahill.....	556,045	Mar. 10	1066	254	74	1346
Plumbing system.....	T. S. and W. P. Coleman.....	570,455	Nov. 3	27	6	77	643
Pneumatic-despatch apparatus.....	S. W. Barr.....	570,421	Oct. 27	3052	723	77	615
Pneumatic-despatch apparatus.....	E. A. Fordyce.....	570,160	Oct. 27	2534	{ 601 602	{ 77	518
Pneumatic-despatch apparatus.....	E. A. Fordyce.....	570,161	Oct. 27	2536	602	77	519
Pneumatic-despatch apparatus.....	A. and J. W. Mathis.....	558,825	Apr. 21	2295	558	75	464
Pneumatic-despatch tube.....	W. G. Collins.....	555,079	Feb. 25	2282	543	74	978
Pneumatic-despatch tube.....	J. Jacques.....	564,427	July 21	2092	{ 489 490	{ 76	416
Pneumatic-despatch tube.....	C. F. Pike.....	566,016	Aug. 18	1968	477	76	1025
Pneumatic-despatch tube.....	C. F. Pike.....	573,037	Dec. 15	1666	400	77	1635
Pneumatic-despatch-tube carrier.....	C. F. Pike.....	562,023	June 16	1706	415	75	1737
Pneumatic-despatch-tube receiving-box.....	L. G. Bostedo.....	564,965	Aug. 4	8	2	76	618
Pneumatic-despatch-tube switch.....	C. F. Pike.....	562,022	June 16	1704	414	75	1737
Pneumatic-despatch-tube switch.....	C. F. Pike.....	567,654	Sept. 15	1614	{ 388 389	{ 76	1609
Pneumatic-despatch-tube system.....	C. F. Pike.....	566,013	Aug. 18	1963	{ 475 476	{ 76	1024
Pneumatic-despatch-tube system.....	C. F. Pike.....	566,015	Aug. 18	1967	476	76	1024
Pneumatic-despatch-tube system.....	C. F. Pike.....	568,490	Sept. 29	3067	738	76	1909
Pneumatic-despatch-tube systems. Curved tube for.....	C. F. Pike.....	566,014	Aug. 18	1965	476	76	1024
Pneumatic-despatch tubes. Terminal for.....	A. B. Campbell.....	563,359	July 7	215	48	76	44
Pneumatic separator and drier.....	A. Gnadt.....	555,370	Feb. 25	2792	654	74	1075
Pneumatic tool.....	C. B. Albree.....	572,324	Dec. 1	424	100	77	1360
Pneumatic-transit apparatus. Carrier for.....	B. C. Batcheller.....	567,067	Sept. 1	592	137	76	1395
Pneumatic-transit pipes. Valve mechanism for.....	B. C. Batcheller.....	568,291	Sept. 22	2732	656	76	1832
Pneumatic tube.....	W. G. Collins.....	555,077	Feb. 25	2274	542	74	976
Pneumatic tube.....	W. G. Collins.....	555,078	Feb. 25	2278	{ 542 543	{ 74	977
Pneumatic tubes. Valve for.....	J. C. and V. C. MacSpadden.....	568,362	Sept. 29	2858	687	76	1871
Pocket attachment.....	R. H. Browne.....	562,454	June 23	2437	592	75	1889
Pocket-book.....	F. Hasselberger.....	558,728	Apr. 21	2133	514	75	434
Pocket-book.....	F. Hasselberger.....	558,729	Apr. 21	2134	514	75	435
Pocket-book.....	J. Ross.....	562,032	June 16	1722	418	75	1740

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Pocket-book frame.....	L. Messer.....	556,156	Mar. 10	1199	280	74	1371
Pocket-book frame and catch.....	G. Havell.....	572,931	Dec. 8	1478	355	77	1582
Pocket companion.....	F. W. Bacho.....	555,752	Mar. 3	451	107	74	1211
Pocket. Garment.....	E. J. Curran.....	555,433	Feb. 25	2904	691	74	1096
Pocket-knife.....	A. K. Brauer.....	557,760	Apr. 7	430	101	75	81
Pocket-knife.....	G. Gardner.....	569,452	Oct. 13	1259	296	77	254
Pocket-knife.....	G. Paffrath.....	563,305	July 7	123	29	76	26
Pocket-knife.....	A. H. Russell.....	552,928	Jan. 14	826	201	74	168
Pocket-knife.....	W. Schmachtenberg.....	553,430	Jan. 21	1698	405	74	345
Pocket-recorder.....	T. H. Gamble.....	560,204	May 19	1580	358	75	1045
Pocket-recorder.....	T. H. Gamble.....	560,205	May 19	1581	358	75	1046
Pocket-register.....	E. L. Gibson.....	563,854	July 14	1071	253	76	215
Pocket. Safety.....	C. M. Johnson.....	562,361	June 16	2282	555	75	1843
Pocket. Watch.....	A. Teuber and L. Odenheimer.....	555,227	Feb. 25	2529	596 597	74	1025
Poison-distributor.....	G. A. Brown.....	558,448	Apr. 14	1656	397	75	330
Poison-distributor.....	W. H. Norton.....	572,907	Dec. 8	1421	342 343	77	1571
Poison-distributor.....	L. G. Tuttle.....	566,251	Aug. 18	2343	574	76	1095
Poison-dropper.....	D. Williams.....	568,150	Sept. 22	2501	601 602	76	1788
Poke. Animal.....	J. S. Dickey.....	552,898	Jan. 14	772	187	74	158
Poke. Animal.....	H. McGuire.....	553,358	Jan. 21	1585	378	74	324
Poke. Animal.....	W. H. Parker.....	568,873	Oct. 6	277	64	77	53
Poke. Animal.....	A. L. Simmons.....	571,984	Nov. 24	2765	652	77	1216
Polar relay.....	T. B. Dixon.....	560,313	May 19	1785	407	75	1080
Pole. Adjustable carriage.....	E. Funk.....	567,707	Sept. 15	1697	408	76	1625
Pole. Adjustable carriage.....	N. L. Holmes.....	562,185	June 16	19-8	481	75	1789
Pole and coupling. Vehicle.....	J. Imier.....	570,020	Oct. 27	2282	542	77	469
Pole for separators. Extensible.....	J. B. Bartholomew.....	574,297	Dec. 29	4027	956	77	2102
Pole-socket.....	J. H. Stevenson.....	572,778	Dec. 8	1221	296	77	1529
Pole-tip.....	T. N. Martin.....	565,412	Aug. 4	832	196	76	771
Pole. Vehicle.....	R. Mannesmann.....	552,917	Jan. 14	807	197	74	165
Polish-rod adjuster.....	T. G. Laney.....	560,101	May 12	1395	314	75	959
Polish-rod adjuster.....	C. Wilder and E. Pattrell.....	554,561	Feb. 11	1336	313	74	769
Polishing-machine.....	G. A. Ensign.....	558,641	Apr. 21	1979	480	75	406
Polishing-machine.....	R. W. Jessup and F. H. Wheelan.....	570,639	Nov. 3	408	97	77	713
Polishing material and making same.....	M. M. Kann.....	552,712	Jan. 7	368	.....	74	72
Polishing or buffing machines. Attachment for.....	F. A. Phillippi.....	568,545	Sept. 29	3192	769	76	1931
Polishing or finishing machine.....	H. Smith.....	569,843	Oct. 20	1979	470 471	77	401
Polyphase generator. Compound-wound.....	B. G. Lamme.....	565,284	Aug. 4	626	149	76	731
Pool-pocket indicator.....	J. J. Sullivan.....	563,628	July 7	661	154	76	124
Pool-table conduit.....	P. M. Cunningham.....	556,532	Mar. 17	1925	449	74	1522
Pool-table rack and tally.....	G. F. Goss.....	562,522	June 23	2539	617 618	75	1908
Pop-corn-fritter machine.....	W. Z. Long.....	567,536	Sept. 15	1922	461	76	1668
Portable elevator.....	J. F. Fairman.....	565,382	Aug. 4	782	186	76	762
Portable elevator.....	M. McCarthy and J. H. Wemhoff.....	558,829	Apr. 21	2304	559 560	75	465
Portable elevator.....	W. J. Patterson and E. W. Heyl.....	573,913	Dec. 29	3276	783 784	77	1967
Portable furnace.....	W. T. and L. C. Underwood.....	564,320	July 21	1907	450	76	383
Portable heater.....	J. M. Murphy.....	554,529	Feb. 11	1289	302	74	760
Portfolio.....	L. W. Yaggy.....	553,887	Feb. 4	143	29	74	532
Positive masses of accumulators. Hardening.....	C. H. Weise.....	559,155	Apr. 28	2922	.....	75	600
Post:							
See Bumping-post. Fence straining-post.							
Clay post. Hitching-post.							
Fence-post. Jack-post.							
Fence or arbor post. Lamp-post.							
Post.....	J. H. Chance.....	563,842	July 14	1047	246	76	211
Post-brace.....	H. A. Hill.....	568,948	Oct. 6	396	89	77	76
Post-driver.....	L. H. Ketcham.....	553,002	Jan. 14	945	229	74	191
Post-driver.....	R. G. Work.....	567,060	Sept. 1	573	134	76	1390
Post-fastening.....	J. Schmidt.....	568,629	Sept. 29	3348	802	76	1961
Post-hole digger.....	D. E. Rowland.....	568,119	Sept. 22	2447	588	76	1778
Post-winder and wire-fastener.....	C. L. Etheridge.....	573,771	Dec. 22	3021	716	77	1905
Postal-car paper-box.....	H. H. Sessions.....	554,008	Feb. 4	372	82	74	573
Postal chutes. Automatic alarm for.....	T. F. Hagerty.....	563,033	June 30	3473	835	75	2107
Postal package-box.....	W. H. Spencer.....	567,283	Sept. 8	976	231	76	1475
Postmarking and stamp-canceling machines. Marker for.....	M. J. Dolphin.....	561,573	June 9	921	220	75	1569
Pot:							
See Corroding-pot.							
Pot-handle.....	L. E. Vacheron.....	564,728	July 28	2607	622	76	529
Pot hanger or holder.....	N. J. T. Powers.....	556,770	Mar. 24	2315	544	74	1612
Pot or pan.....	F. A. H. Höppner and J. M. L. Had-dorf.....	556,417	Mar. 17	1704	397	74	1481
Pot or pitcher.....	F. Zahn.....	567,802	Sept. 15	1862	445	76	1656
Pots or kettles. Casing or shield for.....	N. P. Duncan.....	571,829	Nov. 24	2483	589	77	1162
Potash from suint. Recovering.....	H. T. Vulté.....	559,826	May 12	861	.....	75	858
Potassium bitartrate. Making.....	H. T. Jarrett.....	572,345	Dec. 1	451	.....	77	1364
Potato-cutter.....	N. G. Bliss.....	563,547	July 7	325	121	76	99
Potato-cutter.....	O. A. Bulette.....	563,652	July 7	693	163	76	130
Potato-cutter.....	S. Mikami.....	573,099	Dec. 15	1782	428	77	1627
Potato-cutter.....	L. Sternberg.....	573,551	Dec. 22	2622	622	77	1828
Potato-cutter.....	A. J. Wood.....	552,808	Jan. 7	586	141 142	74	110
Potato-digger.....	E. R. Allen.....	574,128	Dec. 29	3685	878	77	2040
Potato-digger.....	C. J. Cummings.....	566,446	Aug. 25	2744	666	76	1186
Potato-digger.....	L. Frederickson.....	572,885	Dec. 8	1386	336	77	1563
Potato-digger.....	E. B. Frink.....	572,886	Dec. 8	1387	336	77	1563
Potato-digger.....	H. M. Grover.....	572,511	Dec. 1	742	177	77	1418

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page
Potato-digger	J. C., R. J., and J. W. Hannah	569,787	Oct. 20	1894	449	77	384
Potato-digger	G. H. Kidney	559,455	May 5	188	41	75	718
Potato-digger	W. E. Le'diger	555,251	Feb. 25	2576	{ 604 605 }	74	1034
Potato-digger	E. Lemay	568,449	Sept. 29	3000	722	76	1897
Potato-digger	H. L. Long	572,646	Dec. 8	980	236	77	1484
Potato-digger	W. and J. Reuther	572,567	Dec. 8	840	202	77	1457
Potato-digger	E. Reynolds	564,256	July 21	1796	421	76	364
Potato-digger	G. W. M. Shearer	573,798	Dec. 22	3061	725	77	1912
Potato-digger	J. D. Wilcox	560,555	May 19	2204	503	75	1154
Potato digger and separator	T. E. Sadler	565,181	Aug. 4	434	104	76	697
Potato-digging machine	J. Palmer	559,864	May 12	943	211	75	874
Potato fork or scoop	N. F. Reed	566,868	Sept. 1	222	51	76	1324
Potato-harvester	J. N. Cocker	553,511	Jan. 28	1836	436	74	388
Potato-harvester	J. Radermacher	555,401	Feb. 25	2841	{ 669 670 }	74	1084
Potato-hiller	N. Wagner	567,178	Sept. 8	787	185	76	1443
Potato-separator	J. Bach	553,891	Feb. 4	151	31	74	534
Potato sorter and cleaner	J. A. Mitchell	552,538	Jan. 7	61	17	74	14
Potatoes or onions. Machine for grading	G. W. Snyder	570,305	Oct. 27	2848	{ 675 676 }	77	576
Pottery in kilns. Device for placing	J. Tams	556,289	Mar. 10	1472	343	74	1422
Pottery-molding machine	C. H. Leggett	556,036	Aug. 18	1994	483	76	1030
Pottery-molding machine	J. A. Zengler	564,690	July 28	2517	595	76	513
Pottery. Panel decoration for	W. T. Murphy	565,778	Aug. 11	1521	370	76	919
Pottery, tile, &c. Manufacture of	E. A. Shaw	566,420	Aug. 25	2663	.....	76	1173
Poultry-houses. Apparatus for use in	C. L. Pittman	553,016	Jan. 14	966	234	74	195
Powder:							
See Gunpowder.	Smokeless powder.						
Powder charges. Implement for measuring and weighing	T. R. Barney	561,754	June 9	1244	295	75	1631
Powder-distributor	C. M. Arthur	571,145	Nov. 10	1311	305	77	910
Powder-distributor	C. H. Leggett	556,508	Mar. 17	1881	439	74	1514
Powder-distributors. Discharge-spout for	C. H. Leggett	568,776	Oct. 6	111	27	77	23
Powder-folding device	C. Dickinson	563,949	July 14	1249	292	76	247
Powder. Machine for making spherical-grain	J. E. Layng	566,777	Sept. 1	72	18, 19	76	1294
Powder. Machine for shaping smokeless	F. G. Du Pont	569,669	Oct. 20	1659	{ 392 393 }	77	344
Powder magazine. Safety giant	W. Lincicum and C. F. Lewis	563,933	July 14	1220	286	76	243
Powder-mixing device	O. Millard	573,473	Dec. 22	2495	591	77	1804
Powder-papers. Holder for	C. Dickinson	571,041	Nov. 10	1115	261	77	874
Powder. Smokeless	F. A. Halsey	570,705	Nov. 3	555	.....	77	738
Powder. Making smokeless	M. von Förster	559,638	May 5	494	.....	75	777
Power:							
See Churn-power.	Pumping power.						
Horse-power.	Vehicle and motor power.						
Pump-power.	Wave-power.						
Power-accumulator	M. J. McDonald	569,049	Oct. 6	572	{ 131 132 156 157 158 }	77	109
Power. Art of and apparatus for measuring	C. Sellers	565,303	Aug. 4	656	{ 157 158 }	76	736
Power-brake	W. Robinson	572,662	Dec. 8	1007	243	77	1490
Power, &c., by means of heat of the sun. Apparatus for producing motive	C. G. O. Barr	561,755	June 9	1246	{ 295 296 297 }	75	1632
Power-converter	J. F. R. Knobloch	561,998	June 16	1660	405	75	1728
Power-converter mechanism	J. A. O. Livoni	566,198	Aug. 18	2262	553	76	1079
Power-distributing mechanism	E. H. Probstfield	559,745	May 5	656	158	75	807
Power. Distribution and regulation of	H. B. Gale	565,138	Aug. 4	347	82, 83	76	682
Power from moving trains. Generating	W. J. Morden	565,912	Aug. 18	1773	432	76	985
Power-generating apparatus	G. Delmonte	559,969	May 12	1136	{ 253 254 }	75	912
Power-generator	J. Corbett	566,713	Aug. 25	3152	771	76	1262
Power. Machine for generating fluid-pressure	I. T. Dyer	566,897	Sept. 1	276	63, 64	76	1335
Power. Means for converting wave motion into	J. B. Clark	571,511	Nov. 17	1922	459	77	1039
Power. Method of and means for electric regulation of	H. B. Gale	565,139	Aug. 4	352	83	76	683
Power-motor	E. Levings	560,222	May 19	1618	365	75	1052
Power-shovel	J. Kiesler	563,492	July 7	437	101	76	84
Power-transformer	J. E. Goodhue	563,955	July 14	1267	297	76	250
Power-transmitter	D. S. Regan	558,107	Apr. 14	1072	263	75	220
Power-transmitter	C. L. Travis	556,385	Mar. 17	1645	385	74	1469
Power-transmitting apparatus	F. H. Perry	560,229	May 19	1632	371	75	1054
Power-transmitting device	L. Atwood	562,696	June 23	2841	{ 689 690 }	75	1964
Power-transmitting device	C. F. Dinkle	573,768	Dec. 22	3018	715	77	1905
Power-transmitting device	D. A. James	561,953	June 9	1590	385	75	1696
Power-transmitting device	J. S. Nichols	572,816	Dec. 8	1286	309	77	1542
Power-transmitting device	F. Rademacher	558,835	Apr. 21	2312	563	75	467
Power-transmitting device	E. A. Sperry	557,162	Mar. 31	2985	713	74	1763
Power-transmitting gear	F. M. Barney	572,593	Dec. 8	889	215	77	1466
Power-transmitting mechanism	G. J. Altham	569,013	Oct. 6	514	117	77	98
Power-transmitting mechanism	H. W. Morgan	568,917	Oct. 6	337	78, 79	77	65
Power-transmitting mechanism	E. A. Sperry	562,498	June 23	2498	606	75	1900
Power-transmitting rods. Support for	J. Bly	553,665	Jan. 28	2110	499	74	436
Power-wheel	F. Kline	564,790	July 28	2715	645	76	547
Power-wheel	I. W. Stuart	566,632	Aug. 25	3013	736	76	1239
Precious metals. Extraction of	G. A. Schroter	559,614	May 5	453	.....	75	770
Precious metals from solutions. Recovering	T. L. Wiswall and J. B. Frank	555,483	Feb. 25	3004	.....	74	1114
Precious metals from their alkali cyanid solutions. Precipitating	M. Netto	573,233	Dec. 15	2020	.....	77	1700
Precious metals from their ores. Cyanid process of extracting	R. Keck	566,986	Sept. 1	451	76	1366

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. gr.	Vol.	Page.
Precious stones in dops for polishing and grinding. Machine for setting	J. E. Evard	557,981	Apr. 7	814	193	75	153
Precious stones. Method of and apparatus for grinding and polishing	J. E. Evard	557,980	Apr. 7	810	193	75	153
Precious stones while being polished. Apparatus for manipulating	A. L. Strasburger	569,252	Oct. 13	923	222	77	193
Prepayment appliance	P. N. Milsted	563,198	June 30	3777	{ 904 905 }	75	2165
Preservation of vegetable substances	J. S. Du Bois	553,976	Feb. 4	315	69	74	562
Preservative coating for food	A. Morris and J. A. Parker	556,470	Mar. 17	1804		74	1500
Preservative coating for food	A. Morris and J. A. Parker	556,471	Mar. 17	1805		74	1500
Preserving apparatus. Food	A. Ernecke	564,601	July 28	2396	565	76	489
Preserving bivalves	C. S. Hirst	568,482	Sept. 29	3054	735	76	1907
Preserving fruits, vegetables, &c	C. F. Buckley	558,629	Apr. 21	1961	476	75	403
Preserving unfermented grape-juice	C. Staubes	555,830	Mar. 3	567		74	1234
Preserving vessels. Screw-cap for	T. Lee and S. Hazard	560,906	May 26	2884	662	75	1300
Press:							
See Autolithographic	Drawing-press.						
press.	Embossing-press.						
Baling-press.	Filter-press.						
Brick-press.	Glass-press.						
Button-press.	Hay-press.						
Cheese-press.	Honey-section press.						
Cider-press.	Hydraulic press.						
Coining-press.	Lead-press.						
Copying-press.	Meat-press.						
Core-press.	Molding-press.						
Corn-shock press.	Photographer's press.						
Cotter-pin press.	Printing-press.						
Cotton-press.	Seal-press.						
Dental-flask press.	Stamping-press.						
Die-press.	Tobacco-press.						
Press	P. Bartoletti	563,122	June 30	3643	{ 872 873 874 }	75	2140
Press	K. S. Blanchard	567,635	Sept. 15	1577	{ 379 380 }	76	1601
Press	F. Chase	558,011	Apr. 7	894	225	75	167
Press	H. S. Edwards	554,995	Feb. 18	2114	503	74	932
Press	B. F. Martindale and F. D. Moore	561,265	June 2	315	80, 81	75	1429
Press	W. T. and I. E. Snowden	566,238	Aug. 18	2325	{ 568 569 }	76	1092
Press	J. M. H. and U. G. S. Walters	554,847	Feb. 18	1844	434	74	883
Press	F. S. Wardwell	566,827	Sept. 1	154	36	76	1311
Press boxes. Link system for oil	J. H. Hubbell	569,920	Oct. 20	2106	501	77	424
Press die. Drop	W. H. and W. J. Clark	555,361	Feb. 25	2779	651	74	1072
Press-drill	J. L. Ashurst	552,978	Jan. 14	911	221	74	184
Press for extracting oil or other liquids	G. Mitchell	570,491	Nov. 3	102	24, 25	77	657
Press-rack	J. E. Davis	569,547	Oct. 13	1419	336	77	285
Press-rack	C. Kerr	569,502	Oct. 13	1351	317	77	270
Presses. Clutch for power	F. M. Leavitt	568,575	Sept. 29	3243	781	76	1042
Pressing apparatus. Hydraulic	J. Robertson	560,934	May 26	2936	674	75	1310
Pressing apparatus. Hydraulic	J. Robertson	560,935	May 26	2937	674	75	1310
Pressing or ironing board	M. C. Ayer	570,741	Nov. 3	599	137	77	745
Pressure-gage	T. M. Gordon	557,989	Apr. 7	825	196	75	155
Pressure-gage	F. Hart	564,957	July 28	3007	{ 715 716 }	76	601
Pressure-gage	E. A. Uehling	552,678	Jan. 7	315	84	74	62
Pressure-gage	T. W. Welsh	552,653	Jan. 7	268	72	74	52
Pressure-gage signaling apparatus	T. M. Gordon	559,131	Apr. 28	2878	694	75	591
Pressure-recording device	J. F. Batchelor	556,081	Mar. 10	1060	253	74	1345
Pressure-regulating device	H. H. Westinghouse and T. W. Welsh	561,949	June 9	1581	383	75	1694
Pressure-regulator	H. Glanz	566,164	Aug. 18	2207	538	76	1068
Pressure-regulator	W. S. Johnson	558,730	Apr. 21	2135	{ 514 515 }	75	435
Pressure-regulator	W. A. Kitts	568,029	Sept. 22	2272	550	76	1746
Pressure-regulator	J. Schneible	559,221	Apr. 28	3063	739	75	627
Pressures. Safety device for relieving excessive	J. C. Henderson	568,680	Sept. 29	3452	826	76	1981
Primary battery	W. A. Crowdus	555,303	Feb. 25	2678	627	74	1054
Primary battery	W. A. Crowdus	555,304	Feb. 25	2681	627	74	1054
Primary battery	R. P. Osgood	562,019	June 16	1701	413	75	1736
Primary battery	S. N. Smith	571,460	Nov. 17	1827	435	77	1022
Primer	J. Gardner	572,888	Dec. 8	1389	336	77	1563
Primer	F. Mohr	573,897	Dec. 29	3253	775	77	1962
Print-mounting roller	W. H. Lewis	563,044	June 30	3490	838	75	2111
Printers' blankets. Apparatus for washing	R. Gemmell and F. Buxton	572,889	Dec. 8	1391	337	77	1564
Printers' cabinets. Adjustable case-rest for	W. A. Hurrel	565,274	Aug. 4	613	145	76	728
Printer's case	J. E. Hamilton	566,312	Aug. 25	2453	601	76	1131
Printer's chase	E. B. Dewey	572,413	Dec. 1	586	139	77	1390
Printer's chase	H. J. Harding and B. A. Osborn	570,928	Nov. 10	924	214	77	839
Printer's composing-stick	W. H. Golding	571,899	Nov. 24	2623	621	77	1187
Printer's galley	F. L. Denison	554,246	Feb. 11	807	184	74	668
Printer's galley	E. L. Holmes	560,717	May 26	2539	583	75	1234
Printer's galley	L. F. Laing	563,495	July 7	441	102	76	85
Printer's quoin	A. T. H. Brower	560,021	May 12	1237	277	75	929
Printer's quoin	J. L. Nichols	567,497	Sept. 8	1346	324	76	1542
Printer's roller. Tubular interchangeable	B. Day	563,572	July 7	575	133	76	108
Printers' rollers. Apparatus for casting	C. W. Crutinger	572,744	Dec. 8	1166	280	77	1519
Printing	G. Beck and C. L. Hamilton	567,878	Sept. 15	1985	476	76	1681
Printing and adding machine. Automatic	J. H. Eickershoff	565,337	Aug. 4	709	{ 170 171 }	76	747
Printing and associating folded sheets. Means for	W. Scott	558,424	Apr. 14	1602	{ 390 391 }	75	319

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Printing and calculating machine.....	D. E. Felt	568,021	Sept. 22	2251	{ 544 545 546 547	76	1742
Printing and finishing pile fabrics. Machine for	J. Dunlap	563,024	June 30	3461	{ 831 832 833	75	2105
Printing and registering device. Ticket.....	R. M. Macdonald	559,182	Apr. 28	2965	{ 716 717	75	60
Printing apparatus. Multicolor.....	F. von Eulendorf	567,337	Sept. 8	1077	258	76	1494
Printing attachment for letter-boxes	B. L. Hargrove	570,994	Nov. 10	1034	242	77	860
Printing-cylinders. Apparatus for producing hollow celluloid	H. Ziegler-Reinacher	556,796	Mar. 24	2358	555	74	1620
Printing cylindrical articles. Machine for	C. H. Bunting	566,059	Aug. 18	2029	493	76	1036
Printing, delivering, and recording device. Street-car-transfer	P. M. Knopp	571,485	Nov. 17	1867	{ 446 447	77	1028
Printing device	C. B. Kies	573,003	Dec. 15	1611	387	77	1624
Printing device. Hand	F. C. Boynton	561,859	June 9	1433	345	75	1665
Printing device. Hand	C. M. Fowler	564,066	July 14	1464	{ 343 344	76	288
Printing device. Hand	E. Harris	558,490	Apr. 21	1737	421	75	361
Printing from colotype or albetyp plates. Machine for	W. S. Huson	573,596	Dec. 22	2704	{ 641 642	77	1845
Printing from stencils. Machine for	J. Jofeh	562,898	June 30	3230	760	75	2056
Printing. Implement for obtaining correct register in color.....	C. H. Cohen	565,153	Aug. 4	378	87	76	688
Printing linoleum or floor-cloth, &c. Machine for ...	T. Dale	573,965	Dec. 29	3386	{ 810 811 812 813	77	1986
Printing-machine	G. W. Heene	569,826	Oct. 20	1952	{ 464 465	77	396
Printing-machine	H. J. Heimberger.....	568,904	Oct. 6	316	73	77	61
Printing-machine	J. G. Hoyt	573,595	Dec. 22	2703	641	77	1845
Printing-machine	R. P. Schulze	562,099	June 16	1846	448	75	1761
Printing-machine	W. Scott	556,478	Mar. 17	1814	{ 421 422	74	1502
Printing-machine	W. Scott	557,152	Mar. 31	2966	710	74	1759
Printing-machine	W. Scott	558,425	Apr. 14	1611	391	75	321
Printing-machine	W. Scott	571,982	Nov. 24	2761	{ 651 652	77	1215
Printing-machine	E. P. Sheldon	572,225	Dec. 1	232	55, 56	77	1322
Printing-machine	F. P. Slane and C. O. Sobinski.....	563,422	July 7	309	70, 71	76	61
Printing-machine	L. W. Southgate	557,907	Apr. 7	669	160	75	196
Printing-machine	L. W. Southgate	558,996	Apr. 23	2601	633	75	539
Printing-machine	W. H. R. Tovey	571,415	Nov. 17	1748	417	77	1006
Printing-machine	H. A. W. Wood	571,850	Nov. 24	2523	{ 597 598	77	1169
Printing-machine and its tympan. Sheet-perfecting..	L. C. Crcwell	573,393	Dec. 15	2308	{ 551 552	77	1752
Printing-machine bed-motion. Cylinder.....	W. Scott	562,427	June 23	2385	580	75	1879
Printing-machine for duplicating type-written work ..	G. P. Van Wye	571,028	Nov. 10	1090	254	77	870
Printing-machine inking apparatus.....	R. Miehle	558,593	Apr. 21	1905	{ 463 464	75	392
Printing machine. Line.....	G. F. McAdams	553,356	Jan. 21	1582	377	74	323
Printing machine. Multicolor	H. A. W. Wood	560,860	May 26	2841	651	75	1292
Printing-machine offset mechanism	C. P. Cottrell	560,345	May 19	1839	419	75	1029
Printing-machine perforating or scoring attachment ..	J. L. Nichols	566,090	Aug. 18	2081	507	76	1045
Printing-machine rewinding attachment	C. J. Buckley	557,649	Apr. 7	231	57	75	44
Printing-machine. Rotary	J. Michaud	555,460	Feb. 25	2960	{ 704 705 706 460	74	1106
Printing machine. Rotary web.....	F. Meisel	558,592	Apr. 21	1900	{ 461 462 463	75	392
Printing-machine sheet-delivery apparatus	R. W. Jamieson	563,967	July 14	1286	301	76	254
Printing-machine tripping-motion	S. D. Tucker	573,425	Dec. 15	2390	{ 569 570 571	77	1768
Printing machine. Web.....	W. Spalckhaver	567,051	Sept. 1	366	131	76	1328
Printing-machines. Bed-motion for cylinder	W. Scott	562,923	June 30	3266	789	75	2064
Printing-machines. Bed-motion for cylinder	W. Scott	563,511	July 7	469	110	76	90
Printing-machines, &c. Ringed roller for	G. F. McAdams	570,226	Oct. 27	2654	630	77	542
Printing-machines. Stereotype-plate holder for cylinder ..	S. D. Tucker	568,054	Sept. 22	2323	{ 561 562	76	1753
Printing. Multicolor.....	P. G. Frauenfelder	565,891	Aug. 18	1720	{ 422 423	76	973
Printing or impressing designs, patterns, or outlines for garments. Apparatus for	H. E. Couzineau	567,886	Sept. 15	1997	479	76	1684
Printing or other machines. Toothed rack for	C. P. Cottrell	574,195	Dec. 29	3843	917	77	2067
Printing or other machines. Toothed rack for	C. P. Cottrell	574,196	Dec. 29	3844	917	77	2067
Printing or ruling on paper or metal. Apparatus for ..	A. Tessaro	569,845	Oct. 20	1984	{ 472 473 474	77	402
Printing-plate and producing same.....	A. Patek	564,290	July 21	1858	435	76	374
Printing-plate-inking machine	J. P. Stevens	573,552	Dec. 22	2623	{ 623 624	77	1628
Printing-press	H. F. Bechman	569,081	Oct. 6	625	{ 142 143 144	77	119
Printing-press	T. C. Damborg	557,559	Apr. 7	41	12, 13	75	10
Printing-press	T. C. Damborg	558,000	Apr. 7	864	{ 218 219	75	163

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Printing-press	A. E. Dowell	562,713	June 23	2879	699	75	1971
Printing-press	A. E. Dowell	562,714	June 23	2881	699	75	1972
Printing-press	A. E. Dowell	562,715	June 23	2884	700	75	1972
Printing-press	J. E. Doyle	563,754	July 14	878	209	76	181
Printing-press	G. P. Fenner	572,478	Dec. 1	679	163	77	1408
Printing-press	J. L. Firm	556,409	Mar. 17	1687	393	74	1477
Printing-press	M. L. W. Hallenbeck	557,381	Mar. 31	3389	814	74	1835
Printing-press	F. X. Hooper	557,582	Apr. 7	101	25, 26	75	20
Printing-press	B. Huber	571,089	Nov. 10	1203	282	77	891
Printing-press	S. R. Kramer	564,626	July 28	2439	574	76	497
Printing-press	R. Miehle	574,206	Dec. 29	3863	921	77	2071
Printing-press	R. Miehle	574,207	Dec. 29	3866	921	77	2071
Printing-press	G. W. Prouty	566,223	Aug. 18	2302	563	76	1087
Printing-press	G. W. Prouty	566,224	Aug. 18	2303	563	76	1088
Printing-press	L. W. Southgate	569,434	Oct. 13	1229	288	77	249
Printing-press	C. Stevens	563,627	July 7	657	153	76	123
Printing-press	J. H. Stonemetz	559,000	Apr. 28	2605	634	75	540
Printing-press	W. H. R. Toye	557,626	Apr. 7	167	44	75	33
Printing-press	J. Weimar	559,423	May 5	138	29, 30	75	707
Printing-press	H. A. W. Wood	553,480	Jan. 21	1776	423	74	361
Printing-press	H. A. W. Wood	569,310	Oct. 13	1029	245	77	212
Printing-press bed-movement	S. Whitlock	560,180	May 12	1532	346	75	984
Printing-press coloring attachment	M. P. Kenna	553,032	Jan. 14	988	239	74	199
Printing-press feed attachment	C. S. Sinclair	571,699	Nov. 17	2234	537	77	1095
Printing-press feed-gage	E. L. Megill	568,578	Sept. 29	3249	782	76	1943
Printing-press feed-gage	E. L. Megill	571,782	Nov. 24	2400	573	77	1147
Printing-press gage-pin	J. W. Eggleston	558,551	Apr. 21	1825	444	75	379
Printing-press gripper	J. Watson	552,627	Jan. 7	210	58	74	41
Printing-press impression adjustment	C. O. Duffy	567,892	Sept. 15	2006	481	76	1685
Printing-press inking apparatus	R. Miehle	559,036	Apr. 28	2667	649	75	553
Printing-press inking attachment	S. J. Hart	558,586	Apr. 21	1890	458	75	390
Printing-press inking mechanism	R. Miehle	558,594	Apr. 21	1907	464	75	393
Printing-press. Job	H. Johnson	573,413	Dec. 15	2339	559	77	1758
Printing-press offset	R. Mason	566,206	Aug. 18	2280	557	76	1082
Printing-press. Plate	V. H. Everson and R. J. Good	563,758	July 14	884	210	76	182
Printing-press. Platen	F. A. Burnham	572,405	Dec. 1	577	137	77	1388
Printing-press registering mechanism	H. A. W. Wood	560,881	May 26	2844	651	75	1292
Printing-press roller adjustment	F. Splithoff	552,790	Jan. 7	537	131	74	101
Printing-press. Rotary or color	C. W. Dickinson	556,740	Mar. 24	2255	527	74	1601
Printing-press stop mechanism	T. C. Dexter	567,303	Sept. 8	1015	242	76	1483
Printing-press strip-feeding attachment	G. O. Goddard	572,793	Dec. 8	1248	302	77	1534
Printing-press. Web	G. W. Turner	572,283	Dec. 1	343	82, 83	77	1345
Printing-press. Web	E. H. Wilcomb	567,776	Sept. 15	1807	433	76	1646
Printing-press web-tension device	W. Scott	558,426	Apr. 14	1615	391	75	321
Printing-presses. Apparatus for inking and wiping dies in	R. H. Syms	567,797	Sept. 15	1846	443	76	1653
Printing-presses. Apparatus for transferring paper from feeding-machines to	T. A. Briggs	553,666	Jan. 28	2111	499	74	437
Printing-presses. Apparatus for transferring paper from feeding-machines to	T. A. Briggs	557,761	Apr. 7	434	101	75	82
Printing-presses. Automatic trip mechanism for	A. K. Taylor	567,259	Sept. 8	917	219	76	1465
Printing-presses. Chromatic inking apparatus for	J. B. Cline	553,228	Jan. 21	1344	326	74	231
Printing-presses. Front-edgesheet-registering mechanism for	H. A. W. Wood	567,730	Sept. 15	1737	327	76	1633
Printing-presses. Operating gripper tumbler-cams in	W. B. Yates and W. S. Huson	561,640	June 9	1032	248	75	1590
Printing. Producing relief-plates for	O. C. Strecker	567,926	Sept. 15	2049	433	76	1693
Printing sign-cards. Machine for	F. W. Maxson	555,106	Feb. 25	2329	553	74	988
Printing-surfaces. Means for facilitating alterations of	M. H. Whittaker	557,039	Mar. 24	2779	554	74	1699
Printing-surfaces. Preparing artistic	H. Herkomer and H. T. Cox	556,975	Mar. 24	2658	433	74	1676
Printing-surfaces. Producing celluloid rollers with	H. Ziegler-Reinacher	573,564	Dec. 22	2646	629	77	1233
Printing upon wood. Mechanism for	W. Hollingsworth	553,159	Jan. 14	1222	297	74	244
Printing velvet, &c., with metal or bronze colors	H. Botschen	559,967	May 12	1134	253	75	912
Printing wall-paper	H. W. Sanderson	569,237	Oct. 13	902	216	77	188
Profiling-machine	C. E. Davis and C. L. Grohmann	560,347	May 19	1842	419	75	1090
Profiling-machine	T. T. Heath and A. N. Verdin	553,984	Feb. 4	330	73	74	565
Profiling-machine. Multiple	T. T. Heath and A. N. Verdin	553,988	Feb. 4	339	74	74	567
Projectile and firing same. Explosive	J. K. Bakewell	572,400	Dec. 1	570	135	77	1386
Projectile and firing same. Explosive	J. K. Bakewell	572,401	Dec. 1	572	135	77	1387
Projectile and gun for throwing same	L. Gathmann	569,191	Oct. 13	813	190	77	171

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Projectile and gun for throwing same. High-explosive	L. Gathmann	569,190	Oct. 13	812	190	77	171
Projectile. Armor-piercing	I. G. Johnson	571,195	Nov. 10	1385	323	77	924
Projectile. Armor-piercing	C. Y. Wheeler	569,143	Oct. 6	730	171	77	139
Projectile-coating	C. Y. Wheeler	573,120	Dec. 15	1816		77	1663
Projectile. Explosive	C. E. Scribner	571,909	Nov. 24	2639	625	77	1190
Projectile gas-check	A. Nobel	563,609	July 7	632	147	76	119
Projectile. High-explosive	G. Gustave	574,061	Dec. 29	3560	850	77	2018
Projectile. Multiple	L. A. Johnson	556,632	Mar. 17	2077	486	74	1550
Projectiles. Means for throwing	J. Ericsson	561,954	June 9	1592	385	75	1696
Propeller	N. W. French	559,775	May 5	732	175	75	820
Propeller	G. M. and E. A. Hoyland	562,469	June 23	2459	596	75	1893
Propeller	A. L. Kraus	574,096	Dec. 29	3628	867	77	2030
Propeller	W. M. Tucker	571,628	Nov. 17	2120	508	77	1074
Propeller	F. Wittram	573,562	Dec. 22	2645	629	77	1833
Propeller blades. Means for adjusting screw	H. Brinkmann	571,745	Nov. 24	2338	558	77	1134
Propeller. Boat	C. D. Augur	561,956	June 16	1596	387	75	1717
Propeller. Endless-band	J. H. Meacham	553,416	Jan. 21	1675	399	74	341
Propeller for boats	W. M. Spann	568,499	Sept. 29	3090	744	76	1914
Propeller for navigable vessels	G. C. Parini	553,131	Jan. 14	1169	284	74	234
Propeller for ships. Screw	R. S. Peabody	562,020	June 16	1702	413	75	1736
Propeller for vessels. Screw	J. R. Miller	562,190	June 16	1998	484	75	1791
Propeller-governor	G. D. Turner and G. W. Cummings	573,116	Dec. 15	1807	436	77	1662
Propeller. Oscillating	J. Huber	566,910	Sept. 1	298	69	70	1340
Propeller revolution. Indicator for the speed of	M. Pfatischer	561,430	June 2	658	161	75	1495
Propeller. Screw	E. Bierstadt	566,292	Aug. 25	2407	591	76	1124
Propeller. Screw	M. N. Bray	554,331	Feb. 11	956	221	74	697
Propeller. Screw	A. W. Case	553,953	Feb. 4	280	62	74	556
Propeller. Screw	G. H. Gere	559,890	May 12	999	292	75	884
Propeller. Screw	G. W. Hubbard	573,977	Dec. 29	3417	819	77	1991
Propeller-shaft bearing	W. M. Campbell	563,134	June 30	3667	878	75	2143
Propeller-shaft for marine engines	D. B. Morison	569,116	Oct. 6	678	159	77	129
Propeller. Ship	J. D. Mark	565,170	Aug. 4	411	99	76	693
Propeller. Vessel	J. I. Newburg	565,021	Aug. 4	107	25	76	638
Propeller. Vessel	B. T. Stauber	559,912	May 12	1040	231	75	891
Propeller. Vessel	A. Viert	552,938	Jan. 14	847	204	74	173
Propeller-wheel	E. J. Parker	573,351	Dec. 15	2240	516	77	1739
Propeller-wheel	G. W. Pelton	553,177	Jan. 14	1253	305	74	250
Propelling apparatus. Boat	J. F. Bliss	566,831	Oct. 6	196	47	77	39
Propelling apparatus. Boat	C. M. Kimball	552,910	Jan. 14	795	193	74	162
Propelling attachment. Boat	S. N. Smith	570,613	Nov. 3	329	81	77	699
Propelling by motion of vessels. Apparatus for	G. W. Price	567,999	Sept. 22	2211	533	76	1734
Propelling canal-boats, &c. Means for	S. W. Balch	569,400	Oct. 13	1176	279	77	240
Propelling mechanism	R. H. Crosby	552,576	Jan. 7	123	34	74	25
Propelling mechanism. Boat	J. H. McDonald	573,522	Dec. 22	2570	610	77	1818
Propelling mechanism. Vessel	C. S. Carrier	553,333	Jan. 21	1539	368	74	315
Propelling vessels. Device for	J. Bond	569,951	Oct. 20	2171	515	77	436
Propulsion. Canal-boat	W. Elmer, Jr	559,271	Apr. 28	3142	759	75	641
Propulsion. Marine	A. Holm	552,613	Jan. 7	191	52	74	37
Propulsion. Marine	R. Rhett	553,423	Jan. 21	1687	402	74	343
Propulsion. Mechanism for and mode of marine	S. Lawrence	565,359	Aug. 4	745	178	76	755
Propulsion of boats	W. Forward	554,589	Feb. 11	1395	328	74	781
Propulsion of canal-boats. Electrical	A. C. Mather	564,629	July 28	2444	575	76	498
Propulsion of marine vessels	E. Duerr	568,604	Sept. 29	3308	793	76	1953
Propulsion of vessels	J. H. Mosley	571,127	Nov. 10	1287	298	77	906
Propulsion of vessels. Electrical	E. A. Le Sueur	555,252	Feb. 25	2579	606	74	1035
Protective cutter	G. Cooke	561,092	June 2	29	8	75	1372
Protector							
See Tree-protector.							
Protractor	W. S. Ayres	564,549	July 21	2281	535	76	450
Protractor	W. W. Pennington	570,767	Nov. 3	640	147	77	755
Protractor. Bevel	W. J. Belcher	568,597	Sept. 29	3295	791	76	1950
Prune or fruit dipper, weigher, and spreader	F. Kimble	564,381	July 21	2007	472	76	400
Pruning, clipping, and holding implement. Combined	R. Jacks	569,284	Oct. 13	977	234	77	202
Pruning implement	H. C. Lowe and F. C. Gandee	573,339	Dec. 15	2321	531	77	1736
Pruning implement	W. S. Young	554,433	Feb. 11	1135	265	74	732
Pruning implement and fruit-picker. Combined	W. A. Baisley and C. W. Decker	562,698	June 23	2844	690	75	1964
Pruning-knife	W. R. Benjamin	568,424	Sept. 29	2961	710	76	1890
Pruning-shears	A. Effinger and W. H. Metzger. (Reissue.)	11,534	Apr. 28	3280	792	75	667
Pruning-shears	H. E. Miller	565,684	Aug. 11	1351	328	76	888
Prussiates. Making	H. Bower	556,130	Mar. 10	1149		74	1362
Puddling and apparatus therefor	E. L. Ford	564,276	July 21	1836	429	76	370
Pull-boat	L. B. McEwen	562,644	June 23	2759	669	75	1949
Pull-rod-bending apparatus	T. G. Laney	569,927	Oct. 20	2117	504	77	426
Puller:							
See Cork-puller.	Staple-puller.						
Drill-puller.	Stump-puller.						
Flax-puller.	Weed-puller.						
Spike or bolt puller.							
Pulley	E. L. Babcock	569,850	Oct. 20	1994	476	77	403
Pulley	J. H. Foote	562,073	June 16	1810	436	75	1754
Pulley	M. W. Jamieson	564,752	July 28	2655	631	76	537
Pulley	D. E. Newell. (Reissue.)	11,525	Mar. 17	2222	520	74	1581
Pulley	F. H. Turner	565,526	Aug. 11	1073	258	76	834
Puller. Automatic clutch	J. N. Starr	565,241	Aug. 4	570	134	76	720
Pulley-block	J. J. Bisel and J. Hancock	559,766	May 5	719	170	75	818
Pulley-block	O. M. Mowat	572,766	Dec. 8	1201	290	77	1525

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. Gr.	Vol.	Page.
Pulley-block.....	G. M. Mullen.....	566,213	Aug. 18	2289	560	76	1084
Pulley-block. Differential.....	F. A. Waldron.....	561,246	June 2	287	72	75	1423
Pulley-block. Friction.....	E. R. Wethered.....	573,739	Dec. 22	2977	704	77	1896
Pulley-block hanger and removing device. Rope or washline.....	F. J. and A. Schwarzkopf.....	562,156	June 16	1936	470	75	1778
Pulley-block or lifting device. Differentially-gearcd.	G. A. Armington.....	562,790	June 30	3017	729	75	2016
Pulley-block. Self-locking.....	J. Spencer.....	565,699	Aug. 11	1376	335	76	893
Pulley-crowning machine.....	S. H. St. John.....	557,712	Apr. 7	330	79	75	63
Pulley. Expansion.....	J. Muir.....	558,196	Apr. 14	1215	296	75	247
Pulley. Expansion.....	M. Musgrave.....	563,399	July 7	276	61.62	76	55
Pulley-facing machine.....	B. F. Barnes.....	553,225	Jan. 21	1340	325	74	280
Pulley-guide for ropes.....	M. Thonar.....	568,076	Sept. 22	2362	571	76	1761
Pulley. Roller-bearing well-wheel.....	J. C. Taylor.....	567,055	Sept. 1	569	132	76	1389
Pulley. Sling.....	F. Thompson.....	573,248	Dec. 15	2043	490	77	1705
Pulley. Speed.....	W. M. McIntyre.....	562,234	June 16	2060	499	75	1803
Pulley. Split.....	G. M. Hancock.....	560,159	May 12	1489	337	75	977
Pulley-stile pockets. Machine for cutting.....	W. Black.....	565,875	Aug. 18	1696	415	76	969
Pulley. Wood.....	H. C. Crowell.....	570,909	Nov. 10	892	207	77	833
Pulleys. Die for crowning sheet-metal.....	O. W. Ketchum.....	565,993	Aug. 18	1935	468	76	1018
Pulp. Apparatus for dissociating wood.....	L. Engelmayer.....	567,832	Sept. 15	1898	454	76	1663
Pulp articles. Apparatus for making.....	C. A. Dean, W. H. Cunningham, F. E. Boston, and J. L. Dean.	558,675	Apr. 21	2049	494	75	418
Pulp articles. Apparatus for making.....	C. A. Dean, W. H. Cunningham, F. E. Boston, and J. L. Dean.	558,676	Apr. 21	2050	494	75	418
Pulp chips. Apparatus for assorting wood.....	R. S. Talbot and N. M. Jones.....	557,718	Apr. 7	341	81	75	65
Pulp chips. Method of and apparatus for assorting wood.....	R. S. Talbot.....	556,111	Mar. 10	1109	264	74	1354
Pulp grinder. Wood.....	A. D. Schaeffer and C. H. Dale.....	572,572	Dec. 8	850	204	77	1459
Pulp. Machine for forming bodies from.....	H. Fairbanks and H. Parker.....	557,197	Mar. 31	3067	735	74	1774
Pulp. Machine for molding hollow ware from.....	M. L. Deering.....	563,753	July 14	874	208	76	180
Pulp-molding machine.....	J. A. Wheeler.....	568,389	Sept. 29	2899	698	76	1879
Pulp-pail-making machine.....	E. Hubbard.....	561,788	June 9	1307	313	75	1642
Pulp. Preparing wood chips for making.....	N. M. Jones and R. Talbot.....	573,981	Dec. 29	3423	820	77	1992
Pulp-washing machine.....	C. H. Evers.....	561,213	June 2	242	58	75	1414
Pulp-washing machine.....	M. J. Roach.....	556,867	Mar. 24	2481	584	74	1643
Pulping apparatus.....	C. W. Roberts.....	571,019	Nov. 10	1079	251	77	867
Pulverizer and blower.....	H. C. Witmer.....	561,744	June 9	1225	290	75	1627
Pulverizer or harrow. Screw.....	J. M. Patterson.....	563,057	June 30	3509	843	75	2114
Pulverizer, weeder, and cultivator. Combined.....	J. F. Ebersole.....	568,563	Sept. 29	3215	775	76	1936
Pulverizing and mixing machine.....	H. S. Albrecht.....	571,588	Nov. 17	2049	488	77	1060
Pulverizing apparatus.....	E. Jolicard.....	553,163	Jan. 14	1229	299	74	245
Pulverizing-machine.....	J. C. Clark.....	561,491	June 2	762	187	75	1514
Pulverizing-machine.....	O. B. Peck.....	560,638	May 19	2395	547	75	1187
Pulverizing-machine.....	O. B. Peck.....	560,639	May 19	2396	548	75	1188
Pulverizing-mill.....	T. McGlew.....	565,176	Aug. 4	427	102	76	696
Pumice-stone. Artificial.....	C. Morgenthaler.....	561,663	June 9	1109	375	75	1605
Pump.....	A. F. Abrahamson.....	553,381	Jan. 21	1620	376	74	331
Pump.....	C. W. H. Blood.....	558,766	Apr. 21	2198	529	75	446
Pump.....	O. F. Bostwick.....	567,533	Sept. 8	1395	335	76	1551
Pump.....	M. T. Chapman.....	573,860	Dec. 29	3190	759	77	1950
Pump.....	M. T. and M. C. Chapman.....	572,959	Dec. 15	1536	368	77	1608
Pump.....	B. S. Church.....	568,742	Oct. 6	47	112	77	12
Pump.....	W. Clarkson.....	572,962	Dec. 15	1547	371	77	1611
Pump.....	A. A. Delpeyron and L. J. Rousse- lin.....	562,285	June 16	2146	522	75	1818
Pump.....	C. E. Grosse and T. A. Walther.....	555,214	Feb. 25	2511	592	74	1022
Pump.....	E. R. Hanna and H. M. Householder.....	557,812	Apr. 7	518	125	75	98
Pump.....	M. C. Harrison.....	554,684	Feb. 18	1570	369	74	831
Pump.....	G. W. Hays and G. E. Sanderson.....	553,808	Jan. 28	2350	559	74	482
Pump.....	W. D. Hooker.....	555,096	Feb. 25	2312	549	74	984
Pump.....	P. H. Hutchinson, Jr.....	566,179	Aug. 18	2232	545	76	1073
Pump.....	J. H. Johnson.....	559,851	May 12	911	202	75	868
Pump.....	H. Jones.....	572,260	Dec. 1	292	70	77	1335
Pump.....	W. P. Keeler.....	564,080	July 14	1492	350	76	292
Pump.....	K. A. Klose.....	568,909	Oct. 6	325	75	77	62
Pump.....	D. Lippy.....	565,548	Aug. 11	1103	266	76	841
Pump.....	D. Lippy.....	574,251	Dec. 29	3952	939	77	2088
Pump.....	D. Lippy.....	574,252	Dec. 29	3953	940	77	2088
Pump.....	A. Marichal.....	556,546	Mar. 17	1948	454	74	1526
Pump.....	W. Nash.....	564,447	July 21	2122	496	76	421
Pump.....	F. Pearn.....	557,285	Mar. 31	3226	774	74	1802
Pump.....	W. I. Phifer.....	571,929	Nov. 24	2671	633	77	1197
Pump.....	J. Stumpf.....	571,702	Nov. 17	2240	539	77	1097
Pump.....	M. E. Turner, R. G. Kirby, and J. R. Turner.....	563,992	July 14	1326	310	76	261
Pump.....	J. W. Welch.....	555,985	Mar. 10	872	206	74	1313
Pump.....	H. D. B. Williams.....	572,782	Dec. 8	1233	298	77	1531
Pump.....	J. C. Wilson.....	564,674	July 28	2509	593	76	511
Pump. Air.....	C. Graefe.....	565,893	Aug. 18	1726	423	76	975
Pump. Air.....	F. Messmer.....	562,903	June 30	3238	782	75	2058
Pump. Air.....	F. N. Stevens.....	556,704	Mar. 17	2179	509	74	1570
Pump. Air.....	S. G. Stoddard.....	559,857	May 1	1113	248	75	904
Pump. Air.....	R. V. West and H. Holgate.....	566,953	Sept. 1	372	87	76	1353
Pump. Ale.....	G. R. and H. H. Neumann.....	564,834	July 28	2784	662	76	559
Pump and wrench. Combined air.....	D. H. Petrie.....	567,407	Sept. 8	1201	287	76	1516

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				Spec.	Dr. g.	Vol.	Page.
Pump attachment.....	M. A. Hager.....	560,791	May 26	2671	614	75	1259
Pump attachment.....	H. W. Jones.....	567,272	Sept. 8	950	226	76	1470
Pump attachment. Antifreezing.....	D. F. Humphreys.....	570,284	Oct. 27	2763	657	77	562
Pump. Automatically-operated.....	J. W. Bellairs.....	562,792	June 30	3019	729	75	2016
Pump bucket. Chain.....	N. W. Hartman.....	567,712	Sept. 15	1705	409	76	1626
Pump. Centrifugal.....	H. A. Barber.....	557,300	Mar. 31	3251	780	74	1807
Pump. Centrifugal.....	C. McIntyre.....	564,934	July 28	2463	706	76	593
Pump. Centrifugal.....	C. McIntyre.....	569,655	Oct. 20	1639	387	77	341
Pump. Centrifugal.....	C. McIntyre.....	569,656	Oct. 20	1641	388	77	341
Pump. Centrifugal.....	F. Orton.....	564,897	July 28	2885	691	76	579
Pump. Centrifugal.....	W. E. Seanor and D. A. McCaskill.....	562,157	June 16	1938	470	75	1779
Pump. Centrifugal air-compression.....	J. Anderson and A. Bernsen.....	554,634	Feb. 11	1485	347	74	797
Pump check and relief valve.....	G. H. Reynolds.....	571,887	Nov. 24	2591	615	77	1182
Pump cleaner. Beer.....	J. J. Geiger.....	572,631	Dec. 8	956	231	77	1460
Pump controller. Electric.....	F. W. Merritt.....	571,600	Nov. 17	2067	496	77	1064
Pump coupling. Oil-well.....	J. M. Ralston.....	552,621	Jan. 7	202	56	74	40
Pump. Diaphragm.....	G. E. Flodman.....	564,560	July 21	2317	544	76	456
Pump. Direct-acting.....	F. B. Crocker.....	571,751	Nov. 24	2351	562	77	1136
Pump. Double-acting.....	J. C. Matteson.....	566,405	Aug. 25	2636	643	76	1166
Pump. Double-acting.....	H. M. Wyeth.....	570,528	Nov. 3	163	40	77	668
Pump. Double-acting submerged force.....	H. D. B. Williams.....	572,753	Dec. 8	1234	298	77	1531
Pump. Double-action force.....	A. Scholl.....	568,800	Oct. 6	151	35	77	31
Pump. Feed.....	J. Grubinski.....	573,085	Dec. 15	1760	423	77	1652
Pump for domestic water systems.....	E. Neff.....	571,600	Nov. 17	2199	530	77	1089
Pump for raising and measuring liquids.....	E. Capitaine.....	573,641	Dec. 22	2804	664	77	1865
Pump. Force.....	O. F. Smith.....	555,188	Feb. 25	2462	583	74	1014
Pump. Force.....	A. W. Thierkoff.....	565,646	Aug. 11	1289	311	76	875
Pump. Force and lift.....	J. L. Lefebvre and C. S. Upton.....	569,047	Oct. 6	589	131	77	108
Pump. Force and spray.....	G. W. Smith.....	568,462	Sept. 29	3024	726	76	1902
Pump governor. Air.....	W. H. Green.....	559,379	May 5	51	12	75	690
Pump governor. Boiler-feed.....	G. H. Immendorf and A. H. Engstrom.....	571,834	Nov. 24	2493	590	77	1164
Pump governor. Tank.....	G. H. Immendorf and A. H. Engstrom.....	569,134	Oct. 6	716	168	77	136
Pump. Gravity-power.....	I. T. Dyer.....	555,724	Mar. 3	406	94	74	1202
Pump. Hydraulic.....	W. Clarkson.....	572,963	Dec. 15	1549	371	77	1611
Pump. Hydraulic.....	W. Clarkson.....	572,964	Dec. 15	1551	372	77	1611
Pump. Hydraulic.....	L. W. Noyes.....	568,409	Sept. 29	2934	705	76	1885
Pump. Hydraulic air.....	W. H. Powers, Jr.....	556,937	Mar. 24	2591	609	74	1663
Pump. Hydraulic air.....	L. W. Swem.....	556,220	Mar. 10	1316	308	74	1392
Pump. Hydraulic air.....	E. H. Weatherhead.....	562,163	June 16	1950	473	75	1781
Pump. Hydraulic air.....	E. H. Weatherhead.....	562,164	June 16	1952	473	75	1782
Pump. Lift.....	J. W. Aiton.....	554,164	Feb. 4	670	151	74	628
Pump. Lift and force.....	D. Johnson.....	565,620	Aug. 11	1230	297	76	864
Pump. Lift force.....	F. C. Wilson.....	555,989	Mar. 10	878	210	74	1315
Pump. Mining.....	W. Nance.....	554,082	Feb. 4	511	115	74	598
Pump or engine. Hydraulic compensating.....	A. E. Cutler and R. Donkin.....	569,091	Oct. 6	645	147	77	124
Pump or shoe. Running.....	J. Singleton.....	566,422	Aug. 25	2669	652	76	1173
Pump operating mechanism.....	W. A. Anderson.....	554,568	Feb. 11	1352	316	74	773
Pump operating mechanism.....	H. C. Behr.....	563,007	June 30	3429	825	75	2099
Pump-pistons. Packing-ring for.....	W. E. Karns.....	562,540	June 23	2565	623	75	1913
Pump pitman. Oil.....	R. M. Frey.....	563,473	July 7	399	94	76	77
Pump. Plunger.....	W. Treverton.....	562,939	June 30	3304	797	75	2072
Pump. Pneumatic.....	J. F. Browne.....	570,372	Oct. 27	2955	701	77	597
Pump. Portable air.....	J. Lines and A. J. Wolff.....	556,153	Mar. 10	1194	279	74	1370
Pump-power.....	S. M. Fulton and A. T. Ames.....	571,006	Nov. 10	1199	281	77	890
Pump power attachment.....	A. G. Newman and J. A. Johnson, Jr.....	573,525	Dec. 22	2575	611	77	1819
Pump-regulator.....	G. W. Wright.....	559,560	May 5	363	88	75	753
Pump-regulator. Automatic.....	J. C. Sterns.....	570,968	Nov. 10	989	230	77	851
Pump-regulator. Boiler.....	C. A. Straub.....	555,540	Mar. 3	94	21	74	1147
Pump-regulator. Windmill.....	H. Trede.....	560,243	May 19	1658	377	75	1059
Pump-rod-turning mechanism.....	J. J. Brazill.....	563,736	July 14	849	202	76	175
Pump. Rotary.....	J. M. Allen.....	572,082	Nov. 24	2959	696	77	1251
Pump. Rotary.....	J. W. T. Briggs.....	556,721	Mar. 17	2220	517	74	1580
Pump. Rotary.....	J. N. Espegren.....	571,756	Nov. 24	2359	564	77	1138
Pump. Rotary.....	J. B. Garber.....	567,089	Sept. 1	632	146	76	1402
Pump. Rotary.....	M. W. Hall.....	557,123	Mar. 31	2912	696	74	1750
Pump. Rotary.....	J. D. Keller.....	570,643	Nov. 3	415	98	77	715
Pump. Rotary.....	H. W. Potter.....	569,350	Oct. 13	1099	261	77	227
Pump. Rotary air.....	W. H. Bartel and W. A. Lewis.....	561,192	June 2	215	52	75	1409
Pump. Sand.....	G. Palm.....	563,055	June 30	2507	842	75	2114
Pump. Single-acting crank.....	G. E. Dow.....	566,895	Sept. 1	269	62.63	76	1333
Pump. Steam.....	A. F. Hall.....	567,978	Sept. 22	2163	520	76	1726
Pump. Steam.....	T. J. Owens.....	562,554	June 23	2598	631	75	1917
Pump. Steam.....	J. B. Rhodes.....	565,391	Aug. 4	798	190	76	765
Pump-strainer.....	C. C. Stiner.....	555,831	Mar. 3	568	137	74	1234
Pump. Vacuum.....	W. H. Sumbing.....	560,240	May 19	1653	376	75	1058
Pump-valve.....	T. S. La France.....	556,507	Mar. 17	1880	438	74	1514
Pump-valve.....	G. Parker.....	569,884	Oct. 20	2042	486	77	412
Pump-valve.....	L. M. Rich.....	556,213	Mar. 10	1301	304	74	1389
Pump-valve. Air.....	N. A. Christensen.....	572,192	Dec. 1	166	40	77	1310
Pump-valve. Air.....	E. W. Küster.....	567,600	Sept. 15	1519	365	76	1590

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Pump valve mechanism. Steam.	J. L. McGiffin	570,042	Oct. 27	2318	550	77	477
Pump valve-motion	J. Stumpf	553,878	Feb. 4	124	24, 25	74	529
Pump valve-pot	C. C. Worthington	561,746	June 9	1229	291	75	1628
Pump valve. Steam.	J. L. McGiffin	558,199	Apr. 14	1219	297	75	247
Pump. Water-purifying force.	D. Heins	553,910	Feb. 4	205	43	74	543
Pump. Wheel.	I. T. Dyer	573,580	Dec. 22	2670	633	77	1838
Pumps. Apparatus for operating oil-well.	C. Sharpe and H. H. Argue	563,812	July 14	982	234	76	200
Pumps. Automatic circuit-controller for electric	D. W. Dunn	567,023	Sept. 1	511	121	76	1378
Pumps. Automatic drain for	M. R. Turner	568,817	Oct. 6	176	42	77	35
Pumps. Automatic relief-valve for electric.	M. W. Hall	562,463	June 23	2451	595	75	1891
Pumps. Auxiliary exhaust apparatus for oscillating wing.	G. Allweiler	564,959	Aug. 4	1	1	76	617
Pumps from freezing. Attachment for preventing.	C. F. and E. L. Wetz	558,541	Apr. 21	1815	441	75	377
Pumps. Movable distributing-spout for	O. Anderson	556,041	Mar. 10	979	234	74	1331
Pumps. Safety-valve for mercurial air.	C. E. Scribner	571,908	Nov. 24	2638	625	77	1190
Pumps. Valve-gear for force and suction.	E. W. Köster	553,961	Feb. 4	292	65	74	558
Pumping and drilling machine.	A. W. Pickering	565,634	Aug. 11	1257	303	76	869
Pumping apparatus.	M. Burt	560,190	May 19	1554	352	75	1041
Pumping apparatus.	P. Frichette	567,741	Sept. 15	1756	421	76	1636
Pumping apparatus. Automatic	G. W. Padgett and G. Hendryx	554,950	Feb. 18	2023	479	74	915
Pumping apparatus. Oil-well.	J. W. Rhoades	558,421	Apr. 14	1597	390	75	318
Pumping-engine. Steam	A. Campbell	560,608	May 19	2295	526	75	1172
Pumping-jack.	T. G. Laney	569,926	Oct. 20	2115	503	77	426
Pumping liquids by fluid-pressure. Apparatus for	L. S. Grossman	565,615	Aug. 11	1224	295	76	862
Pumping-machine. Horse-power	F. H. M. Davis	571,993	Nov. 24	2776	655 656	77	1218
Pumping oil-wells. Means for.	J. Taylor	565,815	Aug. 11	1579	385	76	929
Pumping power.	G. M. Carter, J. H. and C. L. Drew.	571,611	Nov. 17	2089	501 502	77	1068
Pumping power.	G. W. Grimes	563,167	June 30	3716	889	75	2153
Pumping power.	G. W. Grimes	566,167	Aug. 18	2211	538 539	76	1069
Pumping power. Oil-well.	G. W. Grimes	562,602	June 23	2698	652	75	1937
Pumping rig. Oil-well.	E. D. Yates	562,999	June 30	3420	822 823	75	2097
Punch	W. Mason	560,515	May 19	2133	488	75	1143
Punch	R. J. Thompson	563,098	June 30	3605	665	75	2132
Punch. Belt.	S. E. Keighley	566,402	Aug. 25	2629	642	76	1165
Punch. Belt or eyelet.	W. H. Sprinkle	562,981	June 30	3392	816	75	2092
Punch. Canceling.	E. H. Murdock	571,881	Nov. 24	2579	610	77	1179
Punch. Check.	G. H. Rogers	562,852	June 30	3143	761	75	2039
Punch. Check.	C. H. Woodworth	556,392	Mar. 17	1656	387	74	1471
Punch for bicyclists' use. Cutting.	F. C. Durant	555,234	Feb. 25	2545	599	74	1028
Punch. Spring belt.	R. W. Pryor and C. Schaetzle	574,164	Dec. 29	3736	896	77	2053
Punch. Ticket.	F. P. Becker	572,625	Dec. 8	943	229	77	1477
Punch. Ticket.	A. P. Odell	565,364	Aug. 4	754	180	76	757
Punches. Manufacturing stencil-character.	S. D. Hartog, Jr.	561,785	June 9	1302	313	75	1641
Punching and eyeletting machine.	C. Whitfield	557,738	Apr. 7	387	91	75	73
Punching and recording device. Ticket	D. McGill	557,142	Mar. 31	2947	705	74	1756
Punching and riveting machine.	W. B. Scaife and G. A. Moeckel	574,173	Dec. 29	3785	903	77	2058
Punching and shearing machine. Steam	C. A. Bertsch	557,103	Mar. 31	2878	688	74	1743
Punching-bag.	E. A. Hawthorne and H. Sheble	565,747	Aug. 11	1468	359	76	908
Punching-bag support.	H. B. Frazier	571,874	Nov. 24	2563	607 608	77	1176
Punching from sheets of plastic material. Device for use in	A. C. Estabrook	568,941	Oct. 6	381	86	77	73
Punching-machine	F. Philipp	557,018	Mar. 24	2748	652	74	1693
Punching machine. Metal.	A. R. Tomlinson	553,370	Jan. 21	1605	383	74	328
Punching-machine. Multiple.	H. C. Jones	566,185	Aug. 18	2242	548	76	1075
Pupillometer and bridge-measure.	L. L. Palmer	557,220	Mar. 31	3102	744	74	1781
Purifier	F. S. Cripps	561,203	June 2	230	55	75	1412
Purse	A. Kress	573,332	Dec. 15	2206	527	77	1733
Purse	E. A. Thierry	561,924	June 9	1532	371	75	1684
Purse and pocket-book frame	A. Goertz	559,100	Apr. 28	2784	675	75	575
Purse and receptacle. Combined puzzle.	W. Gross	572,796	Dec. 8	1253	303	77	1535
Push-button	G. Jepson	574,247	Dec. 29	3948	938	77	2087
Push-button. Electric.	G. J. Soper	559,416	May 5	128	27	75	706
Push-button switch	H. E. Nickerson	558,299	Apr. 14	1388	339	75	280
Putting-out roll	A. F. Jones	569,136	Oct. 6	718	169	77	137
Puzzle	G. F. Abbott	563,003	June 30	3425	824	75	2098
Puzzle	W. G. Adams	554,565	Feb. 11	1343	314	74	771
Puzzle	T. J. Barrett	570,363	Oct. 27	2936	697	77	593
Puzzle	S. A. Bartlett	553,824	Feb. 4	5	2	74	506
Puzzle	W. S. Bates	569,600	Oct. 20	1541	362	77	322
Puzzle	O. Beisheim	559,661	May 5	529	121	75	783
Puzzle	A. Boltz	568,232	Sept. 22	2638	633	76	1814
Puzzle	J. F. Brittingham	567,804	Sept. 15	1864	446	76	1656
Puzzle	D. Du Bois	569,663	Oct. 20	2013	480	77	407
Puzzle	M. Faller	566,748	Sept. 1	29	7	76	1286
Puzzle	W. F. Feldhoff	570,921	Nov. 10	914	212	77	837
Puzzle	C. M. Fitz	556,535	Mar. 17	1932	451	74	1523
Puzzle	J. H. Flint	562,384	June 23	2320	564	75	1866
Puzzle	P. G. Frank	566,854	Sept. 1	201	46	76	1321
Puzzle	H. Giles	569,194	Oct. 13	819	192	77	172
Puzzle	C. H. T. Hagelstein	553,648	Jan. 28	2086	491	74	433
Puzzle	H. C. Happersett	558,066	Apr. 14	1011	246	75	207
Puzzle	M. Heath	564,279	July 21	1840	431	76	370
Puzzle	A. Keiser	555,288	Feb. 25	2652	621	74	1048
Puzzle	J. J. King	568,483	Sept. 29	3054	735	76	1907
Puzzle	T. Lee	569,106	Oct. 6	667	154	77	127
Puzzle	F. H. Lehman	571,672	Nov. 17	2186	526	77	1087
Puzzle	J. L. Mahoney	561,678	June 9	1097	263	75	1602
Puzzle	O. A. Mapel	574,158	Dec. 29	3737	891	77	2049
Puzzle	J. G. Meyers, Jr.	557,003	Mar. 24	2715	643	74	1687

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Puzzle	W. F. Moore	570,762	Nov. 3	633	145	77	754
Puzzle	H. H. Moses	565,555	Aug. 11	1118	270	76	843
Puzzle	R. J. Murphy	564,022	July 14	1375	320	76	271
Puzzle	C. J. Nesbitt, Jr.	563,792	July 14	948	225	76	194
Puzzle	J. G. Pegel	574,261	Dec. 29	3966	942	77	2090
Puzzle	F. O. Rich	564,161	July 14	1644	384	76	321
Puzzle	A. E. Schmidt	564,846	July 28	2808	669	76	564
Puzzle	T. F. Schofield	552,721	Jan. 7	390	102	74	76
Puzzle	E. Segar	572,727	Dec. 8	1137	274	77	1514
Puzzle	W. E. Sharp	560,305	May 19	1776	404	75	1078
Puzzle	W. H. Shellenberger	566,236	Aug. 18	2322	568	76	1091
Puzzle	D. B. Stephens	555,539	Mar. 3	93	20	74	1147
Puzzle	W. E. Wilcox	562,264	June 16	2112	512	75	1811
Puzzle	C. A. Worrall	558,009	Apr. 7	891	224	75	167
Puzzle. Educational	T. B. Eiker	560,485	May 19	2092	478	75	1135
Puzzle. Maze	E. R. Lawrence	556,152	Mar. 10	1192	278	74	1370
Puzzle or game device	W. Gebert	572,701	Dec. 8	1061	263	77	1504
Pyrometer	E. A. Uehling and A. Steinbart	554,323	Feb. 11	939	216	74	694
Pyrometer. Recording	E. Brown	556,841	Mar. 24	2428	570	74	1633
					571		
Pyrometer. Recording	E. Brown	571,334	Nov. 17	1622	385	77	984
Pyrotechnic firing device	J. G. W. Berckholtz	562,451	June 23	2432	589	75	1888
Pyroxylin compound	J. H. Stevens	552,934	Jan. 14	840	.....	74	171
Pyroxylin compound	J. H. Stevens	552,935	Jan. 14	841	.....	74	171
Pyroxylin compound	J. H. Stevens	553,270	Jan. 21	1423	.....	74	295
Pyroxylin compound	J. H. Stevens	559,823	May 12	855	.....	75	857
Pyroxylin compound	J. H. Stevens	559,824	May 12	857	.....	75	858
Pyroxylin compound	J. H. Stevens	561,624	June 9	1006	.....	75	1585
Pyroxylin compound	J. H. Stevens	564,343	July 21	1943	.....	76	389
Pyroxylin compound	J. H. Stevens	566,349	Aug. 25	2518	.....	76	1144
Pyroxylin compound	J. H. Stevens	568,105	Sept. 22	2423	.....	76	1773
Pyroxylin compound	J. H. Stevens	568,102	Sept. 22	2424	.....	76	1773
Pyroxylin compound	J. H. Stevens	572,134	Dec. 1	74	.....	77	1292
Pyroxylin compound	J. H. Stevens	572,135	Dec. 1	76	.....	77	1293
Pyroxylin compound	J. H. Stevens and F. C. Axtell	568,104	Sept. 22	2421	.....	76	1773
Pyroxylin sheets. Apparatus for producing	J. H. Stevens and M. C. Lefferts	573,928	Dec. 29	3306	790	77	1972
Pyroxylin solvents. Making	G. O. Zeller	555,596	Mar. 3	191	.....	74	1165
Quadracycle	H. N. Staats	558,856	Apr. 21	2343	570	75	474
Quartz-mill	F. P. Snow	569,069	Oct. 6	607	138	77	116
Quartz-pulverizing machine	F. W. Thomson	554,802	Feb. 18	1760	414	74	866
Quilting frame. Adjustable	A. E. Wolford	566,049	Aug. 18	2010	487	76	1033
Quilting frame and table. Combined	R. L. Burns	553,184	Jan. 14	1269	307	74	252
Quinolin compounds. Making	J. Ziegler	563,116	June 30	3636	.....	75	2138
Race-horses. Device for starting	W. C. Creveling	567,298	Sept. 8	1002	238	76	1480
Race-horses. Device for starting	J. J. Sullivan	557,915	Apr. 7	687	164	75	130
Race-starting apparatus	A. Gray	556,462	Mar. 17	1795	416	74	1498
Race-starting machine	W. Maxwell	574,205	Dec. 29	3860	920	77	2070
Race-track speeding device	H. G. Wiltshire and M. C. Massie	572,080	Nov. 24	2955	695	77	1251
Race-tracks. Starter's gate for	P. Ryan	553,740	Jan. 28	2242	531	74	463
					532		
Races. Timing mechanism for	C. A. Newbaker	569,296	Oct. 13	1000	239	77	206
					240		
Rack:							
See Ax-rack.	Horseshoeing-rack.						
Bicycle-rack.	Hose-rack.						
Boot-rack.	Music-rack.						
Braid-rack.	Newspaper-rack.						
Brick-drying rack.	Pastry-rack.						
Butcher's tool-rack.	Piano music-rack.						
Cloak-rack.	Press-rack.						
Clothes-rack.	Seed-rack.						
Coat and hat rack.	Shoe-rack.						
Display-rack.	Shoeing-rack.						
Drying-rack.	Show-rack.						
Feed-rack.	Suspender-rack.						
File-rack.	Toilet-rack.						
Gun-rack.	Towel-rack.						
Hat-rack.	Umbrella-rack.						
Hay-rack.	Wall-rack.						
Hay and fodder rack.	Whip-rack.						
Hay and stock rack.							
Rack	H. D. Keith	555,045	Feb. 18	2220	529	74	950
Rack	G. H. Thomas	563,694	July 7	771	182	76	145
Rack for holding drinking-glasses	A. Voegel	560,447	May 19	2028	464	75	1124
Racking apparatus	J. Rebsamen	554,458	Feb. 11	1179	275	74	739
Racking apparatus. Beer	M. Warren	557,735	Apr. 7	380	88, 89	75	72
Racking apparatus. Beer	M. Warren	558,131	Apr. 14	1112	271	75	228
Racking apparatus for barreling beer	A. E. Feroe	566,898	Sept. 1	278	64, 65	76	1335
Racking off beer. Apparatus for	H. Torchiani	558,438	Apr. 14	1640	395	75	327
Racking-stand for barrels. Knockdown	C. W. Scott, Jr.	572,574	Dec. 8	854	205	77	1460
Radial drill	A. Mill	557,004	Mar. 24	2717	644	74	1687
Radiator	W. F. Bryant	563,357	July 7	213	48	76	43
Radiator	A. Eichhorn	557,499	Mar. 31	3604	863	74	1875
Radiator	A. Eichhorn	560,090	May 12	1377	309	75	956
					310		
Radiator	B. W. Felthousen	563,029	June 30	3468	834	75	2106
Radiator	H. Holmes	566,396	Aug. 25	2622	640	76	1163
Radiator and stovepipe-shelf. Combined	G. Laube	552,844	Jan. 7	646	158	74	122
Radiator drainage-valve	W. P. and R. P. Thompson	573,556	Dec. 22	2632	625	77	1830
Radiator feed and return fitting. Steam	A. Eichhorn	566,151	Aug. 18	2191	532	76	1064
Radiator. Hot-water	A. M. Canon and W. G. Moorehead	560,257	May 19	1687	384	75	1064
					385		
Radiator-rest	J. F. Gorman	569,916	Oct. 20	2100	500	77	423

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Radiator. Steam.....	A. Eichhorn.....	569,040	Oct. 6	558	{ 128 129 }	77	106
Radiator. Steam.....	M. Jaennigen.....	552,643	Jan. 7	236	65, 66	74	46
Radiator-support.....	L. S. Bunker.....	573,259	Dec. 15	2059	493	77	1707
Rafter-support.....	D. M. Rothenberger.....	564,844	July 28	2799	666	76	562
Rail.....	A. G. Heinle.....	562,135	June 16	1901	460	75	1772
Rail-bending machine.....	G. E. Smith.....	558,705	Apr. 21	2097	506	75	428
Rail-bending machine.....	G. E. Smith.....	558,706	Apr. 21	2098	507	75	428
Rail-bond.....	F. E. Buxton.....	564,968	Aug. 4	12	3	76	619
Rail-bond.....	L. Cook.....	561,698	June 9	1135	271	75	1610
Rail-bond.....	F. H. Daniels.....	565,672	Aug. 11	1329	321	76	883
Rail-bond.....	H. S. Newton.....	568,918	Oct. 6	340	79	77	65
Rail-bond.....	F. H. Underwood and F. H. Daniels.....	568,385	Sept. 29	2894	696	76	1878
Rail-bond.....	I. B. Walker and L. G. Nilson.....	572,668	Dec. 8	1017	216	77	1492
Rail-bond.....	T. Wallace.....	564,415	July 21	2067	484	76	413
Rail-bond and electrical connector.....	C. E. Moore.....	537,139	Mar. 31	2943	704	74	1755
Rail-bond-connector.....	J. Bryan.....	566,709	Aug. 25	3146	769	76	1261
Rail-bond. Electric.....	B. Ford and W. Jens.....	558,016	Apr. 7	909	227	75	170
Rail-bond. Electric.....	G. H. Scott.....	567,257	Sept. 8	914	218	76	1465
Rail-bond. Electric.....	G. H. Scott.....	571,888	Nov. 24	2592	615	77	1182
Rail-bond. Electric.....	W. H. Wiggin.....	562,107	June 16	1859	451	75	1764
Rail bond or connection.....	E. A. Turner.....	557,174	Mar. 31	3005	717	74	1766
Rail bond or connection.....	H. P. Wellman.....	562,055	June 16	1761	426	75	1747
Rail-bonding. Mechanism for locating and determining defects in.....	P. O. Keilholtz.....	574,333	Dec. 29	4055	970	77	2113
Rail-chair.....	W. Campbell.....	571,064	Nov. 10	1151	269	77	882
Rail chair and brace.....	J. O. Blackburn.....	565,830	Aug. 11	1604	392	76	934
Rail-cleaner.....	R. Leslie.....	555,454	Feb. 25	2950	701	74	1104
Rail. Compound.....	R. L. Caldwell.....	556,044	Mar. 10	984	236	74	1332
Rail. Compound tramway.....	W. Towler.....	571,709	Nov. 17	2255	541	77	1099
Rail. Extension guard.....	J. W. Ernest.....	565,338	Aug. 4	713	171	76	748
Rail-fastener.....	W. R. Gerhart.....	567,311	Sept. 8	1027	246	76	1485
Rail-fastener.....	J. M. Spaulding.....	568,173	Sept. 22	2535	610	76	1795
Rail-fastener. Guard.....	D. F. Vaughan.....	564,350	July 21	1953	460	76	391
Rail-fastening device.....	F. W. Wilson.....	567,873	Sept. 15	1978	475	76	1680
Rail frog. Spring.....	H. Elliot.....	563,027	June 30	3466	833	75	2106
Rail holder. Guard.....	G. Ehrhart.....	564,876	July 28	2566	684	76	573
Rail-joint.....	G. D. Clafin, Jr.....	560,971	May 26	2926	625	75	1319
Rail-joint.....	C. W. Dehn.....	569,036	Oct. 6	553	127	77	105
Rail-joint.....	W. H. Fitch.....	558,272	Apr. 14	1351	330	75	272
Rail-joint.....	J. M. Halfpenny.....	565,895	Aug. 18	1728	424	76	975
Rail-joint.....	W. D. Jones.....	558,495	Apr. 21	1743	422	75	362
Rail-joint.....	W. D. Jones.....	554,602	Feb. 11	1417	332	74	785
Rail-joint.....	F. Krusinski.....	568,355	Sept. 29	2849	635	76	1869
Rail-joint.....	R. H. Pierce.....	552,775	Jan. 7	504	124	74	95
Rail-joint.....	T. Poley.....	560,536	May 19	2161	494	75	1148
Rail-joint.....	T. C. du Pont.....	567,998	Sept. 22	2210	533	76	1734
Rail-joint.....	J. L. Pope.....	568,699	Sept. 29	3479	832	76	1987
Rail-joint.....	L. R. Shockley.....	569,066	Oct. 6	602	137	77	115
Rail-joint.....	G. Stever.....	556,781	Mar. 24	2338	551	74	1616
Rail-joint.....	T. C. Swofford.....	553,180	Jan. 14	1364	306	74	251
Rail-joint.....	M. W. Wambaugh.....	570,618	Nov. 3	341	84, 85	77	701
Rail joint and chair.....	H. A. Seymour.....	558,527	Apr. 21	1795	436	75	373
Rail joint and chair. Combined.....	H. C. Benagh.....	560,118	May 12	1424	320	75	965
Rail-joint and forming same.....	H. W. Falk.....	558,269	Apr. 14	1346	329	75	272
Rail-joint and forming same.....	H. W. Falk.....	558,271	Apr. 14	1349	330	75	272
Rail-joint and forming same.....	H. W. Falk.....	558,373	Apr. 14	1518	372	75	304
Rail-joint. Electric track-circuit.....	G. H. Williams.....	568,650	Sept. 29	3393	812	76	1970
Rail joint or coupling.....	J. H. Williams.....	565,653	Aug. 11	1299	314	76	877
Rail lock and support.....	W. B. Cook, C. R. Stout, and R. S. Morris.....	570,003	Oct. 27	2259	537	77	465
Rail-scraper.....	W. Grunow, Jr.....	565,454	Aug. 11	910	217	76	805
Rail-straightening device.....	W. Hainsworth.....	555,237	Jan. 21	1360	331	74	284
Rail. Street-car.....	C. Parker.....	566,012	Aug. 18	1962	475	76	1024
Rail-support.....	W. B. Potter.....	571,454	Nov. 17	1811	433	77	1019
Rail-support.....	W. B. Potter.....	571,455	Nov. 17	1812	433	77	1019
Rail-support. Metallic.....	F. Tylee.....	554,607	Feb. 11	1429	{ 335 336 }	74	787
Rail-tongs.....	E. Schrantz.....	554,461	Feb. 11	1186	276	74	741
Rail-tongs. Roller.....	R. L. Adams.....	558,752	Apr. 21	2175	523	75	442
Rails of tramways, &c. Automatic cleaner for.....	A. Flabaux.....	552,637	Jan. 7	227	63	74	45
Rails to metallic sleepers. Securing.....	J. Whitestone.....	554,014	Feb. 4	387	85	74	576
Rails to metallic ties. Securing.....	J. Whitestone.....	556,118	Mar. 10	1125	267	74	1367
Rails to transverse or longitudinal sleepers. System of securing Vignoles.....	G. Coulon.....	561,968	June 16	1612	392	75	1720
Railway.....	E. M. Boynton.....	564,865	July 28	2839	{ 678 679 680 }	76	570
Railway.....	V. A. Emond.....	555,081	Feb. 25	2287	544	74	979
Railway.....	H. L. Stillman.....	565,045	Aug. 4	143	33	76	644
Railway. Aerial.....	I. M. de Oca y Melian.....	569,468	Oct. 13	1281	302	77	258
Railway-alarm.....	F. P. Rosback.....	570,058	Oct. 27	2344	556	77	482
Railway and leveling same.....	M. Sheahen.....	568,879	Oct. 6	284	65	77	54
Railway and tramway wheel. Flanged.....	J. McDonald.....	557,217	Mar. 31	3098	743	74	1780
Railway and water tobogganing apparatus. Inclined.....	S. E. Jackman.....	566,182	Aug. 18	2236	{ 546 547 548 }	76	1074
Railway. Bicycle.....	W. F. Mangels.....	567,486	Sept. 8	1329	320	76	1540
Railway. Bicycle.....	J. and J. McKay.....	566,926	Sept. 1	329	77	76	1345
Railway block-signal.....	C. H. Sherwood.....	559,954	May 12	1106	{ 247 248 }	75	903
Railway block-signal.....	F. C. Stevens and J. Donovan.....	558,858	Apr. 21	2345	571	75	474
Railway block-signaling.....	J. G. Dixon.....	559,688	May 5	568	134	75	791

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Railway block system.....	B. C. Rowell.....	556,773	Mar. 24	2321	{ 546 547	74	1613
Railway bond. Electric.....	J. McLaughlin.....	567,841	Sept. 15	1934	403	76	1670
Railway bonding device. Electric.....	W. Brown.....	553,099	Jan. 14	1121	272	74	224
Railway-brake.....	J. E. Reyburn.....	568,371	Sept. 29	2870	690	76	1873
Railway-brake. Electric.....	J. C. Henry.....	555,862	Mar. 3	623	150	74	1245
Railway-brake equalizing device.....	J. A. Markley.....	573,677	Dec. 22	2875	{ 678 679	77	1877
Railway-brake mechanism.....	J. M. Austin.....	563,353	July 7	207	47	76	42
Railway-buffer arrester.....	J. A. Weber.....	555,273	Feb. 25	2617	614	74	1042
Railway. Cable.....	S. A. Cooney.....	564,184	July 21	1685	394	76	342
Railway. Cable.....	W. M. Wood and J. C. Miller.....	557,320	Mar. 31	3225	{ 787 788	74	1814
Railway cattle-guard.....	G. H. Goldrick and C. C. Vogl.....	564,6-5	July 28	2527	598	76	514
Railway. Closed-conduit electric.....	C. Anderson.....	555,487	Mar. 3	3	1, 2	74	1131
Railway. Closed-conduit electric.....	C. Anderson.....	555,488	Mar. 3	7	2, 3	74	1132
Railway. Closed-conduit electric.....	E. R. Esmond.....	556,311	Mar. 10	1508	{ 350 351	74	1428
Railway Combined electric and gravity pleasure.....	J. A. Griffiths.....	672,111	Dec. 1	26	7	77	1283
Railway conduit. Electric.....	A. Beck.....	553,552	Jan. 28	1912	453	74	402
Railway conduit. Electric.....	W. S. Hull.....	566,397	Aug. 25	2623	641	76	1163
Railway conduit. Electric.....	C. D. Mattison.....	565,085	Aug. 4	228	56	76	658
Railway conduit. Electric.....	J. H. Munson.....	559,105	Apr. 28	2792	{ 676 677	75	577
Railway. Conduit electric.....	C. M. Bridges.....	555,208	Feb. 25	2503	{ 590 591	74	1020
Railway. Conduit electric.....	W. Lobach.....	560,807	May 26	2692	{ 618 619	75	1263
Railway. Conduit electric.....	W. Oesterlein.....	554,719	Feb. 18	1621	3-2	74	840
Railway conduits. Slot-iron for street.....	W. H. Holden.....	554,445	Feb. 11	1153	270	74	736
Railway connection-rods. Guide-bearing for.....	W. Smith.....	572,384	Dec. 1	545	{ 128 129	77	1382
Railway construction.....	R. E. Daniels.....	555,934	Mar. 10	769	185	74	1293
Railway construction. Electric.....	G. Westinghouse.....	573,066	Dec. 15	1721	413	77	1645
Railway cross-tie.....	J. C. Barton.....	571,329	Nov. 17	1614	384	77	9-2
Railway cross-tie.....	A. Bidwell.....	571,316	Nov. 10	1591	377	77	964
Railway-crossing.....	W. R. Cochran, Jr.....	570,542	Nov. 3	193	51	77	673
Railway-crossing.....	D. Colleen.....	571,215	Nov. 10	1413	331	77	929
Railway-crossing.....	D. Gruhkey.....	572,702	Dec. 8	1082	263	77	1504
Railway-crossing.....	H. Hartwell.....	559,284	Apr. 28	3160	764	75	644
Railway-crossing.....	W. H. Johnson and S. D. Fry.....	555,449	Feb. 25	2942	{ 699 700	74	1102
Railway-crossing.....	A. Lavoie.....	573,011	Dec. 15	1624	390	77	1626
Railway-crossing.....	G. B. Leighton.....	562,627	June 23	2734	663	75	1944
Railway-crossing.....	A. G. McMeekin.....	568,541	Sept. 29	3187	768	76	1930
Railway-crossing.....	E. J. Tague.....	574,285	Dec. 29	4013	952	77	2099
Railway-crossing.....	W. V. Wilson.....	557,927	Apr. 7	711	171	75	134
Railway-crossing.....	W. V. Wilson.....	557,928	Apr. 7	712	172	75	134
Railway-crossing.....	W. C. Wood.....	573,747	Dec. 22	2929	708	77	1899
Railway-crossing gate and signal.....	M. W. Taylor.....	564,234	July 21	1759	{ 411 412	76	357
Railway-crossing safety apparatus.....	G. Gibbs.....	569,709	Oct. 20	1758	418	77	360
Railway-crossing safety apparatus.....	G. Gibbs.....	570,089	Oct. 27	2415	572	77	496
Railway-crossing signal.....	R. O'Toole.....	556,553	Mar. 17	1955	456	74	1527
Railway-crossing signal.....	C. Selden.....	567,753	Sept. 15	1777	427	76	1640
Railway-crossing signal.....	J. Shoecraft.....	565,518	Aug. 11	1061	{ 254 255	76	832
Railway-crossings. Automatic gate for.....	L. L. Summers.....	568,051	Sept. 22	2305	{ 559 560	76	1752
Railway-crossings. Electric block system for.....	A. E. Ellis.....	556,139	Mar. 10	1163	273	74	1365
Railway-crossings. Electrically controlled derails for.....	J. P. Coleman.....	571,107	Nov. 10	1247	290	77	898
Railway-crossings. Switch and signal mechanism for.....	J. G. Schreuder.....	559,613	May 5	448	{ 105 106	75	769
Railway current-collector. Electric.....	A. N. Connett.....	560,841	May 26	2759	{ 632 633	75	1277
Railway current-collector. Electric.....	A. N. Connett and J. S. Detrick.....	560,894	May 26	2868	{ 657 658	75	1296
Railway defect-cards. Protector for.....	G. Fensky.....	573,324	Dec. 15	2193	525	77	1731
Railway derailing device.....	G. Gibbs.....	570,596	Nov. 3	302	74	77	694
Railway-ditcher.....	W. B. Doddridge.....	572,875	Dec. 8	1371	332	77	1560
Railway. Electric.....	E. M. Boynton.....	556,320	Mar. 10	1521	354	74	1431
Railway. Electric.....	H. Brandenburg.....	559,356	May 5	10	3	75	682
Railway. Electric.....	H. Brandenburg.....	559,357	May 5	11	4, 5	75	683
Railway. Electric.....	H. Brandenburg.....	560,678	May 26	2473	{ 566 567	75	1221
Railway. Electric.....	H. Brandenburg.....	561,307	June 2	430	106	75	1453
Railway. Electric.....	H. Brandenburg.....	562,453	June 23	2434	{ 590 591	75	1888
Railway. Electric.....	H. Brandenburg.....	562,796	June 30	3026	731	75	2018
Railway. Electric.....	H. Brandenburg.....	563,254	July 7	26	4, 5	76	7
Railway. Electric.....	H. Brandenburg.....	565,102	Aug. 4	262	602	76	665
Railway. Electric.....	H. Brandenburg.....	565,103	Aug. 4	264	63	76	665
Railway. Electric.....	A. Casazza.....	553,952	Feb. 4	278	61, 62	74	555
Railway. Electric.....	W. Chapman.....	560,473	May 19	2071	472	75	1131
Railway. Electric.....	P. B. Delany.....	557,758	Mar. 31	3174	761	74	1793
Railway. Electric.....	W. R. Elliott.....	557,657	Apr. 7	251	61	75	47
Railway. Electric.....	F. C. Esmond.....	553,979	Feb. 4	320	70	74	563
Railway. Electric.....	F. C. Esmond and H. F. Gray.....	553,980	Feb. 4	321	71	74	564
Railway. Electric.....	B. Ford.....	562,890	June 30	3216	{ 777 778	75	2054
Railway. Electric.....	A. Gorton.....	569,331	Oct. 13	1065	{ 252 253	77	220

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Railway. Electric.....	W. F. Grassler.....	567,540	Sept. 8	1403	337	76	1553
Railway. Electric.....	W. Grunow, Jr.....	565,453	Aug. 11	908	216	76	804
Railway. Electric.....	J. H. Guest.....	560,031	May 12	1254	281 282	75	932
Railway. Electric.....	W. E. Hanshue.....	562,894	June 30	3223	779	75	2055
Railway. Electric.....	R. M. Hunter.....	555,509	Mar. 3	41	10	74	1138
Railway. Electric.....	R. M. Hunter.....	556,322	Mar. 10	1524	356	74	1432
Railway. Electric.....	R. M. Hunter.....	559,175	Apr. 28	2956	714	75	607
Railway. Electric.....	R. M. Hunter.....	562,766	June 23	2968	719	75	1990
Railway. Electric.....	R. M. Hunter.....	566,984	Sept. 1	440	103 104	76	1364
Railway. Electric.....	R. M. Hunter.....	572,706	Dec. 8	1090	265	77	1505
Railway. Electric.....	E. H. Johnson and R. Lundell.....	560,721	May 26	2545	585	75	1235
Railway. Electric.....	W. H. Jordan.....	555,248	Feb. 25	2573	604	74	1034
Railway. Electric.....	W. H. Jordan.....	560,903	May 26	2880	661	75	1299
Railway. Electric.....	E. Lachmann.....	563,282	July 7	81	21	76	17
Railway. Electric.....	P. W. Leffler.....	561,898	June 9	1492	360 361	75	1677
Railway. Electric.....	P. W. Leffler.....	573,819	Dec. 22	3100	737 738 740	77	1920
Railway, &c. Electric.....	P. W. Leffler.....	573,821	Dec. 22	3108	741 742	77	1921
Railway, &c. Electric.....	P. W. Leffler.....	573,822	Dec. 22	3111	743 744	77	1922
Railway. Electric.....	N. Leidgen.....	560,269	May 19	1710	389	75	1069
Railway. Electric.....	R. Lundell.....	560,513	May 19	2128	487	75	1142
Railway. Electric.....	A. Norman.....	570,328	Oct. 27	2883	685	77	583
Railway. Electric.....	A. C. O'Connor.....	573,234	Dec. 15	2021	465	77	1700
Railway. Electric.....	T. F. O'Connor.....	553,176	Jan. 14	1251	304	74	249
Railway. Electric.....	D. N. Osyor.....	558,303	Apr. 14	1394	340 341	75	281
Railway. Electric.....	H. C. Reagan, Jr.....	556,210	Mar. 10	1294	303	74	1388
Railway. Electric.....	H. C. Reagan, Jr.....	570,565	Nov. 3	247	62	77	684
Railway. Electric.....	L. W. Reid.....	558,110	Apr. 14	1078	264	75	221
Railway. Electric.....	J. A. Roche.....	574,171	Dec. 29	3779	902	77	2057
Railway. Electric.....	W. M. Schlesinger.....	553,264	Jan. 21	1409	343	74	293
Railway. Electric.....	W. M. Schlesinger.....	561,821	June 9	1362	326 327	75	1651
Railway. Electric.....	C. Sill.....	567,517	Sept. 8	1371	330	76	1547
Railway. Electric.....	C. Skinner.....	566,542	Aug. 25	2895	705 706	76	1215
Railway. Electric.....	A. Sprague.....	573,169	Dec. 15	1897	457	77	1678
Railway. Electric.....	C. E. Stanley.....	561,830	June 9	1378	330	75	1654
Railway. Electric.....	C. F. P. Stendebach.....	558,322	Apr. 14	1431	352	75	288
Railway. Electric.....	J. Tatham.....	563,094	June 30	3598	862	75	2131
Railway. Electric.....	H. L. Tyler.....	558,238	Apr. 14	1293	316	75	261
Railway. Electric.....	M. L. Wood.....	553,799	Jan. 28	2325	552 553	74	478
Railway. Electric conduit.....	J. B. Linn.....	565,624	Aug. 11	1238	299 300	76	865
Railway. Electric underground-trolley.....	G. D. Burton.....	556,321	Mar. 10	1522	355	74	1431
Railway. Electrical.....	R. M. Hunter.....	571,832	Nov. 24	2489	590	77	1163
Railway. Elevated.....	H. L. Boyle.....	555,921	Mar. 10	748	180 181	74	1289
Railway. Elevated.....	R. M. Fryer.....	569,097	Oct. 6	653	151	77	125
Railway. Elevated.....	W. W. Thomas.....	563,818	July 14	993	236	76	202
Railway. Elevated electric.....	E. W. Farnham.....	564,369	July 21	1989	467	76	397
Railway. Elevated electric.....	J. H. McGurty.....	560,917	May 26	2902	665 666	75	1303
Railway fog signaling apparatus.....	J. G. Dixon.....	567,380	Sept. 8	1157	277 278	76	1507
Railway fog signaling apparatus.....	A. Stewart.....	561,357	June 2	522	131	75	1470
Railway fog signaling apparatus.....	C. Tighe.....	557,036	Mar. 24	2774	659	74	1699
Railway-frog.....	W. E. Davin.....	565,438	Aug. 11	876	207 208	76	799
Railway-frog.....	E. N. Grigware.....	554,120	Feb. 4	594	133	74	613
Railway-frog.....	J. Kunz.....	554,702	Feb. 18	1596	375 376	74	835
Railway-frog.....	G. C. Lucas.....	565,998	Aug. 18	1942	469 470	76	1019
Railway-frog.....	D. MacPherson.....	552,916	Jan. 14	805	196 197	74	164
Railway-frog.....	V. McClellan and G. D. Warren.....	556,685	Mar. 17	2155	504	74	1565
Railway-frog.....	W. J. McClellan.....	562,968	June 30	3375	812	75	2089
Railway-frog.....	P. G. Stormer.....	554,320	Feb. 11	936	216	74	693
Railway frog and crossing.....	L. F. Braine.....	570,082	Oct. 27	2398	568 569	77	493
Railway-frog. Clamp.....	G. C. Lucas.....	567,401	Sept. 8	1193	285 286	76	1514
Railway frog or crossing.....	J. Delane, Jr., and J. F. Blue.....	554,911	Feb. 18	1959	461	74	904
Railway-gate.....	T. H. Fennell and C. L. Woodward.....	564,983	Aug. 4	41	9	76	635
Railway-gate.....	J. H. Fitzgerald.....	566,569	Aug. 25	2928	715	76	1221
Railway-gate.....	E. E. Fraunfelter.....	567,340	Sept. 9	1085	261	76	1495
Railway-gate.....	S. L. and W. S. Reed.....	556,211	Mar. 10	1297	303	74	1388
Railway-gate.....	W. G. Roome.....	567,657	Sept. 15	1618	390	76	1610
Railway-gate. Automatic.....	J. H. Fraunmann.....	561,509	June 2	791	193	75	1520
Railway-gate. Automatic.....	W. F. Morse.....	558,092	Apr. 14	1051	257 258	75	215
Railway-gate. Automatic.....	G. A. Reynolds.....	553,541	Jan. 28	1893	447 448 449	74	399
Railway-gate. Automatic pneumatic.....	C. H. Sherwood.....	564,260	July 21	1801	422 423	76	364

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Railway-gate. Electrically-operated.....	B. Haberthur.....	556,183	Mar. 10	1248	{ 291 292	74	1380
Railway grip. Cable.....	L. J. Hirt.....	570,173	Oct. 27	2555	{ 607 608	77	523
Railway guard-gate.....	C. L. Zuelke.....	556,797	Mar. 24	2361	{ 555 556	74	1620
Railway-head.....	A. W. Mathewson.....	565,084	Aug. 4	214	54.55	76	657
Railway. Inclined.....	M. H. Bronsdon.....	566,373	Aug. 25	2574	{ 628 629	76	1154
Railway metals. Device for lifting.....	A. von Olekiewicz.....	557,146	Mar. 31	2960	708	74	1758
Railway-motor.....	E. M. Boynton.....	555,240	Feb. 25	2632	617	74	1044
Railway nut-lock.....	J. L. Brady.....	563,253	July 7	25	4	76	7
Railway. Overhead bicycle.....	H. B. Weaver and H. S. Phillips.....	559,238	Apr. 28	3084	{ 744 745	75	631
Railway. Pleasure.....	I. W. Moore.....	552,692	Jan. 7	339	29.90	74	66
Railway. Pleasure.....	B. Ogilbe.....	555,049	Feb. 18	2327	532	74	951
Railway purposes. Life-saving device for.....	W. H. Martin.....	555,177	Feb. 25	2445	{ 579 580	74	1010
Railway purposes. Life-saving device for.....	W. H. Martin.....	561,267	June 2	326	82	75	1432
Railway-rail.....	D. Blake.....	567,532	Sept. 8	1393	335	76	1551
Railway-rail.....	L. S. Ferguson.....	572,534	Dec. 8	779	186	77	1441
Railway-rail and chair or bed.....	W. C. Proctor.....	569,388	Oct. 13	1160	276	77	237
Railway-rail bond.....	B. Jennings.....	573,960	Dec. 29	3422	820	77	1992
Railway-rail bond. Electric.....	C. C. Benson.....	568,713	Sept. 29	3499	837	76	1991
Railway-rail bond. Electric.....	R. C. Brown.....	554,859	Feb. 18	1872	441	74	888
Railway-rail bond. Electric.....	F. H. Daniels.....	556,046	Mar. 10	998	238	74	1334
Railway-rail bond. Electric.....	F. H. Daniels.....	564,243	July 21	1773	414	76	360
Railway-rail bond. Electric.....	S. Nikoloff.....	554,949	Feb. 18	3021	478	74	915
Railway-rail bond. Electric.....	H. W. Wyman and F. H. Daniels.....	560,455	May 19	2048	466	75	1126
Railway-rail brace.....	H. Elliot, Jr.....	560,982	May 26	2999	691	75	1322
Railway-rail chair.....	R. O. Bingham.....	566,708	Aug. 25	3144	760	76	1260
Railway-rail cleaner. Street.....	C. T. Bischoff.....	556,731	Mar. 24	2236	{ 522 523	74	1598
Railway-rail-cutting machine.....	W. B. Hammond.....	555,096	Mar. 3	360	84	74	1194
Railway-rail fish-plate and coupling.....	C. M. Chunn.....	573,442	Dec. 22	2437	578	77	1794
Railway-rail joint.....	H. M. Campbell.....	558,036	Apr. 14	950	233	75	196
Railway-rail joint.....	C. J. Cochran.....	572,694	Dec. 8	1070	260	77	1502
Railway-rail joint.....	D. Goldstein, R. C. Dawson, and J. F. Krouse.....	564,278	July 21	1839	430	76	370
Railway-rail joints. Locking device for.....	L. Anderson.....	564,267	July 21	1820	426	76	368
Railway-rail plate.....	C. J. Schenck.....	565,801	Aug. 11	1556	379	76	925
Railway-rail. Sectional.....	C. J. Fisher.....	560,487	May 19	2094	479	75	1137
Railway-rail splice-joint.....	W. B. Doddridge.....	560,897	May 26	2872	659	75	1297
Railway-rail. Street.....	J. F. Barrett.....	556,799	Mar. 24	2364	556	74	1621
Railway-rail. Street.....	C. E. Emery.....	560,786	May 26	2663	612	75	1258
Railway-rail tie-plate and spike.....	A. P. Bliven.....	571,743	Nov. 24	2332	557	77	1133
Railway-rails. Attaching rail-bonds to electric.....	D. W. Payne.....	560,366	May 19	1876	428	75	1096
Railway-rails. Device for bridging open joints of.....	T. S. McKinnie.....	561,602	June 9	968	231	75	1579
Railway-rails. Machine for drilling.....	A. D. Gore.....	570,427	Oct. 27	3062	{ 725 726	77	617
Railway safety system.....	B. C. Rowell.....	554,957	Feb. 18	2038	{ 482 483	74	919
Railway semaphore-signal.....	H. M. Abernethy.....	561,551	June 9	877	211	75	1561
Railway-siding.....	W. R. Kirk.....	553,247	Jan. 21	1378	337	74	287
Railway-signal.....	A. Balschun, Jr.....	570,837	Nov. 3	760	173	77	780
Railway-signal.....	C. Hansel.....	563,924	July 14	1204	283	76	240
Railway-signal.....	W. D. Hartz.....	571,191	Nov. 10	1379	322	77	923
Railway-signal.....	G. W. Keller.....	573,414	Dec. 15	2343	{ 559 560	77	1758
Railway-signal.....	F. McBrien.....	562,318	June 16	2203	536	75	1829
Railway-signal.....	B. B. Morgan.....	572,269	Dec. 1	315	75	77	1339
Railway-signal.....	W. G. Roome.....	558,565	Apr. 21	1849	{ 450 451	75	383
Railway-signal.....	W. G. Roome.....	558,566	Apr. 21	1857	451	75	384
Railway-signal.....	A. J. Seifert, A. Bourke, and F. J. Wilken.....	570,064	Oct. 27	2364	562	77	486
Railway-signal.....	D. C. Stewart.....	560,071	May 12	1336	{ 299 300	75	948
Railway-signal.....	J. Wayland.....	569,263	Oct. 13	942	226	77	195
Railway-signal.....	J. Wayland.....	569,264	Oct. 13	943	226	77	195
Railway-signal.....	J. Wayland.....	569,265	Oct. 13	945	226	77	196
Railway signal apparatus.....	B. B. Morgan.....	572,268	Dec. 1	312	74	77	1339
Railway-signal. Automatic.....	H. V. Miller.....	562,639	June 23	2751	668	75	1947
Railway-signal. Automatic electric.....	W. W. Alexander.....	557,749	Apr. 7	414	97	75	78
Railway-signal. Automatic repeating.....	R. H. Innes.....	553,733	Jan. 28	2232	{ 528 529	74	460
Railway signal. Cable.....	M. Norden.....	568,205	Sept. 22	2589	623	76	1804
Railway-signal. Electric.....	W. Daves.....	564,683	July 28	2522	{ 596 597	76	513
Railway signal. Electric trolley.....	H. A. Parrish.....	569,424	Oct. 13	1217	226	77	247
Railway-signal. Electrical.....	W. Fiedler.....	555,601	Mar. 3	200	46.47	74	1167
Railway-signal flagstaff.....	G. P. Koch.....	569,024	Oct. 6	532	123	77	101
Railway-signal-operating apparatus. Compensating device for.....	J. W. Lattig.....	562,770	June 23	2973	720	75	1991
Railway-signal shifting apparatus.....	F. M. Brinckerhoff.....	558,770	Apr. 21	2206	531	75	448
Railway signal system. Automatic.....	J. W. Lattig.....	560,102	May 12	1397	314	75	960
Railway-signal system. Electric.....	L. J. Everest.....	559,576	May 5	343	93	75	757
Railway-signal system. Electric.....	J. Irwin.....	555,167	Feb. 25	2431	576	74	1007
Railway-signals and point-bolts. Pulley for wires of.....	A. G. Evans.....	569,007	Oct. 6	506	114	77	96
Railway-signals and switches. Wire-compensator for.....	J. R. Jones.....	566,321	Aug. 25	2469	605	76	1134
Railway-signals. Compensating device for.....	J. R. and J. W. Jones.....	572,117	Dec. 1	41	10	77	1286

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Railway signaling and switching apparatus.....	J. D. Taylor.....	554,097	Feb. 4	541	120 121	74	603
Railway signaling apparatus.....	T. W. Stueber.....	568,218	Sept. 22	2612	628	76	1809
Railway signaling apparatus. Automatic.....	J. Forster.....	569,008	Oct. 6	507	114 115	77	96
Railway signaling, &c. Device for.....	M. B. Leonard.....	560,359	May 19	1864	425 426	75	1094
Railway signaling system.....	F. C. Timpson and R. F. Rankin...	568,644	Sept. 29	3379	809 810	76	1967
Railway signaling system. Electric.....	F. Bathurst.....	558,028	Apr. 14	935	231 232	75	193
Railway. Single-wire electric.....	J. C. Henry.....	569,827	Oct. 20	1954	465	77	396
Railway-spike.....	J. F. Forsyth.....	558,169	Apr. 14	1170	285	75	239
Railway-spike.....	E. E. Knight.....	570,601	Nov. 3	313	77	77	697
Railway-spike.....	W. S. McClay.....	562,411	June 23	2355	576	75	1873
Railway-spike.....	C. R. Neher.....	557,692	Apr. 7	297	71	75	56
Railway-spike.....	C. Platz.....	553,626	Jan. 28	2039	482	74	425
Railway-spike puller.....	J. L. McCann.....	565,687	Aug. 11	1355	329	76	889
Railway-station signal.....	A. A. Sprague.....	573,047	Dec. 15	1693	405	77	1640
Railway stock-guard.....	O. G. Temple and W. S. Spencer....	560,765	May 26	2625	602 603	75	1250
Railway street-sprinkler.....	J. R. and J. B. Gathright.....	570,990	Nov. 10	1024	239 240	77	857
Railway street-sprinkler.....	J. R. and J. B. Gathright.....	570,991	Nov. 10	1026	240	77	858
Railway structure. Elevated.....	D. D. Toal.....	564,854	July 28	2822	674	76	567
Railway-switch.....	L. A. Allen.....	564,909	July 28	2900	695	76	582
Railway-switch.....	C. I. Bisbing.....	569,949	Oct. 20	2167	514	77	436
Railway-switch.....	W. M. Brown.....	554,437	Feb. 11	1140	266	74	733
Railway-switch.....	G. A. Bursch.....	569,612	Oct. 20	1561	366	77	326
Railway-switch.....	J. Christiansen.....	558,600	Apr. 21	1915	466	75	394
Railway-switch.....	J. Christiansen.....	559,481	May 5	231	52	75	727
Railway-switch.....	H. C. Derr.....	564,916	July 28	2910	697	76	584
Railway-switch.....	J. L. Dodge.....	558,603	Apr. 21	1923	467	75	396
Railway-switch.....	W. W. Doty.....	556,260	Mar. 10	1390	326	74	1407
Railway-switch.....	A. M. Dreisbach.....	559,268	Apr. 28	3137	758	75	640
Railway-switch.....	W. H. Elliot.....	560,981	May 26	2998	690	75	1321
Railway-switch.....	E. B. Entwisle.....	558,791	Apr. 21	2246	542	75	455
Railway-switch.....	F. Greenwald.....	565,694	Aug. 18	1727	424	76	975
Railway-switch.....	C. Hoerl.....	567,645	Sept. 15	1557	384	76	1605
Railway-switch.....	D. Hogan and F. McMahon.....	563,176	June 30	3731	893	75	2156
Railway-switch.....	F. Jewell.....	554,026	Feb. 4	411	90, 91	74	580
Railway-switch.....	E. L. Kern.....	565,754	Aug. 11	1479	362	76	910
Railway-switch.....	E. L. Kern.....	565,755	Aug. 11	1482	362	76	911
Railway-switch.....	J. Kesselring.....	557,828	Apr. 7	545	131	75	103
Railway-switch.....	C. H. Krauss.....	555,171	Feb. 25	3437	577	74	1009
Railway-switch.....	L. S. Lewis.....	571,674	Nov. 17	2189	527	77	1087
Railway-switch.....	A. Malm.....	562,315	June 16	2196	533	75	1828
Railway-switch.....	F. Mathews.....	553,995	Feb. 4	356	78	74	570
Railway-switch.....	J. L. McCann.....	569,653	Oct. 20	1636	387	77	340
Railway-switch.....	D. H. McClelland.....	573,477	Dec. 22	2500	592 593	77	1805
Railway-switch.....	L. A. Osborne.....	557,338	Mar. 31	3312	796	74	1820
Railway-switch.....	J. M. Perkins.....	564,159	July 14	1642	383	76	321
Railway-switch.....	M. S. Pittman.....	565,921	Aug. 18	1766	435	76	987
Railway-switch.....	J. Y. Porter.....	556,323	Mar. 10	1528	356 357	74	1433
Railway-switch.....	W. Raymond.....	555,182	Feb. 25	2454	581	74	1012
Railway-switch.....	C. H. and W. H. Sturgis.....	569,034	Oct. 6	549	126	77	105
Railway-switch.....	M. Tremblay.....	566,281	Aug. 18	2385	585	76	1103
Railway-switch.....	J. L. Wagner.....	569,730	Oct. 20	1790	425	77	367
Railway-switch.....	L. Wieland.....	563,828	July 14	1010	240	76	205
Railway switch and box therefor. Electric.....	W. Chapman.....	560,471	May 19	2067	471	75	1130
Railway-switch and means for operating same.....	F. Newell.....	560,743	May 26	2577	594	75	1242
Railway-switch. Automatic.....	H. H. Froland.....	568,844	Oct. 6	215	51	77	43
Railway-switch detector.....	W. H. Berrigan, Jr.....	566,887	Sept. 1	254	58, 59	76	1331
Railway switch. Electric.....	W. R. Daggett.....	561,970	June 16	1616	392 393	75	1720
Railway switch. Electric.....	S. A. Mustain.....	573,344	Dec. 15	2226	533	77	1737
Railway-switch. Electrically-actuated.....	R. M. Hunter.....	572,169	Dec. 1	131	31	77	1302
Railway-switch. Electrically-operated.....	A. C. Goetz.....	559,796	May 12	772	186	75	842
Railway-switch lock.....	W. Mullin.....	559,592	May 5	408	98, 99	75	762
Railway switch-operating device.....	C. W. Ferguson.....	554,485	Feb. 11	1223	287	74	747
Railway-switch-operating mechanism.....	J. Gessler.....	574,319	Dec. 29	4058	964	77	2108
Railway switch. Overhead.....	F. Schraudner.....	564,110	July 14	1546	363 364	76	304
Railway-switch safety appliance.....	J. C. Stuart.....	573,494	Dec. 22	2528	599	77	1810
Railway switch. Single-rail.....	E. Langen.....	569,972	Oct. 20	2200	523	77	441
Railway-switch stand.....	T. E. Calvert.....	568,938	Oct. 6	375	85	77	73
Railway-switch. Stationary.....	M. S. Pittman.....	568,957	Oct. 6	412	92	77	73
Railway switch. Street.....	B. Bear.....	560,462	May 19	2054	468	75	1123
Railway switch. Street.....	H. L. Dallig and W. Kryszewski....	567,454	Sept. 8	1276	309	76	1529
Railway switch. Street.....	H. Hoistra.....	568,140	Sept. 22	2482	596	76	1784
Railway-switch. Street.....	A. Schmackers.....	567,921	Sept. 15	2041	489 490	76	1692
Railway-switch work.....	A. J. Moxham.....	556,896	Mar. 24	2329	596	74	1652
Railway switches. Device for operating.....	J. A. Marsh.....	571,006	Nov. 10	1055	246	77	863
Railway switching apparatus.....	A. E. Finley.....	570,988	Nov. 10	1020	238	77	857
Railway switching device.....	J. R. Flagg and C. E. Lilly.....	569,751	Oct. 20	1833	435 436	77	374
Railway system.....	G. D. Baldwin.....	570,447	Nov. 3	6	2	77	640
Railway system.....	W. H. Boynton.....	562,311	June 16	2028	490	75	1796
Railway system.....	A. H. Lighthall.....	553,622	Jan. 28	2034	481	74	424
Railway system. B transit.....	B. F. Carpenter.....	570,451	Nov. 3	12	4	77	641

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Railway system. Conduit.....	O. A. Enholm.....	555,937	Mar. 10	774	{ 186 187 }	74	1294
Railway system. Electric.....	A. J. Beitzel.....	555,800	Mar. 3	520	126	74	1225
Railway system. Electric.....	H. Brandenburg.....	552,604	Jan. 7	171	47, 48	74	34
Railway system. Electric.....	H. M. Brinckerhoff.....	554,033	Apr. 14	945	233	75	195
Railway system. Electric.....	W. M. Brown.....	558,151	Apr. 14	1142	279	75	233
Railway system, &c. Electric.....	C. Coerper.....	562,216	June 16	2035	491	75	1798
Railway system. Electric.....	D. M. De Witt and W. K. Elliott.....	564,054	July 14	1449	{ 337 338 426 427 }	76	284
Railway system. Electric.....	G. J. Forrey.....	571,435	Nov. 17	1785	427	77	1014
Railway system. Electric.....	N. J. Halpine.....	560,988	May 26	3006	693	75	1323
Railway system. Electric.....	J. C. Henry.....	560,265	May 19	1704	383	75	1067
Railway system. Electric.....	J. M. Murphy and A. F. Pierce.....	566,786	Sept. 1	85	21, 22	76	1296
Railway system. Electric.....	B. E. Osborn.....	556,516	Mar. 17	1901	{ 442 443 }	74	1517
Railway system. Electric.....	B. E. Osborn.....	573,033	Dec. 15	1656	398	77	1633
Railway system. Electric.....	J. F. Page.....	553,736	Jan. 28	2236	{ 529 530 }	74	461
Railway system. Electric.....	W. Robinson.....	566,801	Sept. 1	110	27	76	1301
Railway system. Electric.....	B. R. Shover and F. P. Townsend.....	569,432	Oct. 13	1227	288	77	249
Railway system. Electric.....	D. M. Therrell.....	560,551	May 19	2195	501	75	1153
Railway system. Electric.....	G. Westinghouse, Jr.....	560,452	May 19	2044	466	75	1126
Railway system. Underground.....	A. G. Heinle.....	558,807	Apr. 21	2270	550	75	459
Railway systems. Circuit-controlling device for electric.....	F. C. Esmond.....	553,981	Feb. 4	324	71, 72	74	564
Railway-tie.....	G. F. Key.....	568,446	Sept. 29	2996	720	76	1896
Railway-tie.....	P. Noonan.....	554,372	Feb. 11	1019	236	74	709
Railway-tie.....	C. A. T. Peters.....	569,469	Oct. 13	1283	302	77	258
Railway-tie.....	T. Ratcliff.....	562,974	June 30	3381	813	75	2090
Railway tie and clamp.....	P. Keshner and H. Laux.....	568,619	Sept. 29	3332	798	76	1959
Railway-tie and means for securing rails thereto. Metallic.....	J. M. Houu.....	565,000	Aug. 4	70	16	76	630
Railway-tie and rail fastening therefor. Metallic.....	A. C. Fraser.....	555,939	Apr. 28	2504	608	75	521
Railway-tie extractor and replacer.....	G. W. Smith.....	561,352	June 2	515	129	75	1469
Railway-tie. Metallic.....	S. F. Adams.....	567,632	Sept. 15	1572	378	76	1600
Railway-tie. Metallic.....	W. H. Larimer.....	568,359	Sept. 29	2854	686	76	1870
Railway-tie. Metallic.....	J. S. Mitchell.....	572,437	Dec. 1	621	147	77	1396
Railway-tie plate.....	L. A. Bower.....	552,875	Jan. 7	713	174	74	133
Railway-tie plate.....	A. B. B. Harris.....	556,348	Mar. 17	1575	368	74	1456
Railway-tie plate.....	A. B. B. Harris.....	560,497	May 19	2108	482	75	1138
Railway-tie plate.....	W. W. Holmes.....	563,037	June 30	3479	836	75	2109
Railway-ties. Manufacturing composition.....	J. H. Amies.....	553,821	Feb. 4	2	1	74	505
Railway time and station indicator.....	F. G. Weeks.....	563,340	July 7	190	42	76	39
Railway time-signal.....	R. T. Bowne.....	569,953	Oct. 20	2174	516	77	437
Railway time-signal.....	A. A. Lehmann.....	569,974	Oct. 20	2202	{ 523 524 }	77	442
Railway-track.....	W. R. Smith.....	563,085	June 30	3587	860	75	2129
Railway-track bed.....	O. C. Newsom.....	574,106	Dec. 29	3640	870	77	2032
Railway-track cleaner.....	G. E. Turner.....	573,842	Dec. 22	3148	750	77	1929
Railway-track gage.....	D. H. Rhodes.....	569,587	Oct. 13	1514	357	77	302
Railway-track layer.....	R. Behrends.....	564,585	July 28	2365	557	76	484
Railway-track rails. Forming joints on.....	H. W. Falk.....	558,270	Apr. 14	1347	329	75	272
Railway-track sander.....	A. H. Gilman.....	568,530	Sept. 29	3168	762	76	1927
Railway-track switch. Electrically-operated.....	F. H. Harriman.....	554,868	Feb. 18	1886	444	74	890
Railway-tracks. Laying.....	G. D. Cladin, Jr.....	560,972	May 26	2988	686	75	1319
Railway-trains. Electric signal for.....	E. J. Devine.....	558,602	Apr. 21	1921	467	75	395
Railway-trains. Electric signal-operating device for.....	G. F. and F. K. Singer.....	573,716	Dec. 22	2940	695	77	1889
Railway-trains. Pneumatic brake apparatus for.....	A. Wenger.....	555,196	Feb. 25	2483	587	74	1017
Railway-vehicles. Brake apparatus for.....	F. Chapsal.....	555,075	Feb. 25	2264	{ 540 541 }	74	974
Railway-vehicles. Swivel or fifth-wheel for.....	J. C. Mitchell.....	553,537	Jan. 28	1888	446	74	398
Railway-wagons. Automatic ball-coupling for.....	H. Oberlaender.....	571,682	Nov. 17	2203	531	77	1090
Railway water-chute. Inclined.....	D. Lenox.....	552,713	Jan. 7	369	96	74	72
Railway-wheels. Machine for turning steel tires for.....	W. Sellers.....	566,702	Aug. 25	3129	{ 765 767 }	76	1258
Railway with suspended vehicle. Elevated.....	W. Feldmann.....	574,316	Dec. 29	4055	963	77	2108
Railways. Apparatus for increasing adhesion of driving-wheels of motor-vehicles for.....	W. Feldmann.....	573,772	Dec. 22	3022	716	77	1905
Railways. Apparatus for preventing collisions on electric.....	B. C. Tilghman, Jr.....	573,496	Dec. 22	2531	600	77	1811
Railways. Automatic block-signal and anticollision appliance for.....	H. W. Harris.....	563,374	July 7	238	54	76	48
Railways. Automatic block-signal system for.....	F. R. Page.....	558,097	Apr. 14	1060	{ 260 261 }	75	217
Railways. Automatic coal recording system for.....	F. A. Walters.....	553,632	Jan. 28	2048	485	74	427
Railways. Automatic gripping device for inclined.....	O. M. Smith.....	553,942	Feb. 4	257	56	74	552
Railways. Automatic point or switch apparatus for.....	S. von Gajewski and L. Braun.....	554,256	Feb. 11	825	188	74	672
Railways. Automatic semaphore-signal for.....	H. M. Abernethy.....	561,931	June 9	1540	373	75	1686
Railways. Automatic switch lock for.....	H. L. Walton.....	562,990	June 30	3406	{ 818 819 }	75	2094
Railways, &c. Automatic system of distribution and control for electric.....	W. H. Cooley.....	573,645	Dec. 22	2810	666	77	1866
Railways. Automatic track-switch for electric.....	W. C. Henry.....	559,800	May 12	779	187	75	843
Railways. Closed conduit and appliance for electric.....	W. R. Edelen.....	557,784	Apr. 7	466	{ 110 111 }	75	88
Railways. Conduit or subway for electric.....	A. S. Krotz and W. P. Allen.....	558,284	Apr. 14	1369	334	75	276
Railways. Conduit system for electric.....	C. A. Gaines.....	552,735	Jan. 7	461	{ 115 116 }	74	87
Railways. Contact device for conduit electric.....	M. Stobrawa.....	566,035	Aug. 18	1992	483	76	1029
Railways. Current-collecting device for electric.....	W. Chapman and P. W. Davies.....	560,472	May 19	2070	472	75	1131
Railways. Electric signaling device for.....	G. A. Lyncker.....	555,217	Feb. 25	2515	594	74	1023
Railways. Electric signaling system for.....	G. L. Thomas.....	556,072	Mar. 10	1046	249	74	1342

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Railways. Lock-and-block signaling on.....	W. R. Sykes, Jr., and J. P. O'Donnell.	568,993	Oct. 6	486	110	77	93
Railways. Magnetic path for underground electric.	H. C. Reagan, Jr.	570,566	Nov. 3	251	63	77	684
Railways. Mechanism for cable.....	L. J. Hirt.	570,635	Nov. 3	400	95	77	712
Railways. Metallic cross-tie for.....	E. L. Lamb	565,683	Aug. 11	1351	328	76	888
Railways or other electric conductors. Bond or connector for electric	A. Bournonville and J. J. Zimmelo.	555,846	Mar. 3	595	142	74	1238
Railways. Return-circuit for electric.....	G. Kapp	570,599	Nov. 3	310	76	77	696
Railways. Safety apparatus for street or other.....	F. Dowd	572,971	Dec. 15	1560	374 375	77	1613
Railways. Sectional conductor for electric.....	W. H. Baker	555,470	Feb. 25	2979	710	74	1109
Railways. Self-acting caution and danger signal for.	W. T. C. Pratt	567,865	Sept. 15	1966	471 472	76	1677
Railways. Switch for conduit systems of electric.....	J. L. Hornig	566,714	Aug. 25	3153	772	76	1262
Railways. Traveling contact for underground electric	S. L. Phillips	562,484	June 23	2480	602	75	1897
Railways. Traveling contact or plow for underground electric	S. L. Phillips	562,483	June 23	2479	601	75	1896
Railways. Underground conductor for electric.....	G. Westinghouse, Jr.	556,602	Mar. 17	2032	476	74	1541
Railways. Underground conduit for electric.....	W. S. Merkle	554,450	Feb. 11	1165	271	74	737
Railways. Underground conductor system for electric	C. T. H. Schwieger	555,266	Feb. 25	2604	611	74	1039
Railways. Underground electric power system for..	W. L. King	572,013	Nov. 24	2808	662	77	1223
Railways. Underground system for electric.....	W. P. Allen	554,102	Feb. 4	553	123 124	74	605
Railways. Underground system for electric.....	W. P. Allen and A. S. Krotz	554,104	Feb. 4	559	125	74	607
Railways. Underground system for electric.....	A. S. Krotz and W. P. Allen	558,283	Apr. 14	1367	333	75	275
Raisin-seeder.....	G. A. Alger	557,321	Mar. 31	3257	789	74	1814
Raisin-seeder.....	S. B. Bliss	572,858	Dec. 8	1347	324	77	1555
Raisin-seeder.....	J. H. Bullard	567,806	Sept. 15	1866	447	76	1657
Raisin-seeder.....	A. J. Smith	572,075	Nov. 24	2948	694	77	1249
Raisin-seeder. Hand.....	C. L. Spencer	552,975	Jan. 14	906	220	74	183
Raisin-seeding machine.....	C. Bristow	561,255	June 2	300	76	75	1426
Raising and moving material. Traveler for apparatus for	W. F. Clare	563,448	July 7	360	83	76	70
Raising or lowering apparatus. Weight	H. Clark	561,490	June 2	761	186	75	1513
Rake:							
See Brush-rake. Lawn-rake.							
Garden-rake. Road-rake.							
Hand-rake. Sweep-rake.							
Hay-rake.							
Rake.....	J. Dain, Jr.	560,692	May 26	2500	574	75	1226
Rake.....	C. W. Kuehl	563,281	July 7	79	20	76	17
Rake.....	A. Y. and J. L. McIlroy	569,654	Oct. 20	1638	387	77	341
Rake and apparatus for making same.....	L. Gibbs	567,129	Sept. 8	706	165	76	1427
Rake and fork. Convertible.....	M. T. Burket	573,135	Dec. 15	1847	445	77	1669
Rake cleaning attachment.....	A. C. Paynton	554,722	Feb. 18	1626	384	74	841
Rake or broom.....	A. Woerber	566,048	Aug. 18	2009	487	76	1032
Rake-tooth.....	C. E. Peabody	573,481	Dec. 22	2506	594	77	1806
Ramming machine. Road.....	A. D. Buchanan	569,573	Oct. 13	1487	350	77	296
Rand guard and knife.....	A. S. Vose	561,034	May 26	3089	712	75	1339
Rand or welt nailing machine.....	L. Goddu	568,248	Sept. 22	2664	618	76	1819
Rand. Rotary.....	E. F. White	559,508	May 5	274	65	75	735
Rand-trimmer.....	E. F. Maxwell	567,246	Sept. 8	889	212	76	1461
Range.....	L. Stockstrom	556,706	Mar. 17	2181	509	74	1570
Range-boiler.....	R. M. Wilson	573,746	Dec. 22	2988	707	77	1898
Range. Cooking.....	W. Wicke	556,451	Mar. 17	1774	411	74	1494
Range-finder.....	A. Barr and W. Stroud	567,675	Sept. 15	1643	396 397	76	1615
Range. Gas.....	R. S. Stephenson	560,330	May 19	1817	413	75	1086
Range protecting-pocket.....	S. C. Noble	557,337	Mar. 31	3312	795	74	1819
Range-shield.....	H. J. Phillips	572,715	Dec. 8	1111	260	77	1509
Ranges and distances. Method of and apparatus for determining	O. A. Bell	558,926	Apr. 28	2484	603 604	75	516
Ranges, &c. Protecting-pocket for.....	S. C. Noble	566,009	Aug. 18	1957	474	76	1022
Rasp.....	W. Shaw	570,511	Nov. 3	134	33	77	663
Rasp.....	H. Zollinger	562,691	June 23	2833	688	75	1962
Rat-trap.....	J. S. Randall	559,604	May 5	432	103	75	767
Ratchet-drill.....	N. Samson	553,263	Jan. 21	1408	343	74	293
Ratchet-drill.....	M. M. Watkins	570,973	Nov. 10	997	231	77	852
Ratchet-movement.....	T. T. Heath and A. N. Verdin	553,987	Feb. 4	338	74	74	567
Ratchet-wrench.....	M. Fisk	567,766	Sept. 15	1795	430	76	1644
Ratchet-wrench.....	T. Schaefer	566,229	Aug. 18	2309	565	76	1089
Ratchet-wrench.....	E. T. Warr	573,732	Dec. 22	2967	702	77	1894
Ratchet-wrench.....	A. Willows	562,669	June 23	2830	687	75	1962
Razor attachment.....	M. S. Jacobson	570,598	Nov. 3	309	76	77	696
Razor. Safety.....	E. J. Fuchs	561,707	June 9	1157	276	75	1615
Razor. Safety.....	R. E. Gibbs	560,493	May 19	2103	481	75	1138
Razor. Safety.....	H. Hessenbruch	554,873	Feb. 18	1892	445	74	891
Razor. Safety.....	F. R. and O. Kampfe	554,823	Feb. 18	1806	423	74	876
Razor. Safety.....	A. L. Silberstein	568,212	Sept. 22	2599	626	76	1806
Razor-strop.....	G. C. Blasdell	572,774	Dec. 8	1236	299	77	1532
Razor-strop.....	J. J. Doyle	561,258	June 2	307	78	75	1423
Razor-strop.....	P. C. McGrath	556,363	Mar. 17	1610	376	74	1463
Razor-strop.....	C. A. Worrall	572,145	Dec. 1	89	20	77	1295
Razor stropping and honing apparatus. Rotary	J. A. Platt	553,625	Jan. 24	2038	482	74	425
Razor-stropping device.....	H. Grenon	554,867	Feb. 18	1884	443	74	890
Reamer.....	R. H. Elliott	560,787	May 26	2664	613	75	1258
Reamer.....	R. H. Elliott	564,510	July 21	2216	520	76	439
Reamer-blanks. Die for forging.....	W. Ross	554,734	Feb. 18	1649	389	74	845
Reamer. Expansible shell.....	J. A. Little	555,905	Mar. 3	711	171	74	1262
Reamer. Expansion.....	J. Singer	569,303	Oct. 13	1019	243	77	210
Reamer. Pipe.....	O. B. Hall	554,420	Feb. 11	1108	258	74	726
Reapers and mowers. Antifriction-clip for.....	F. Barclay	572,402	Dec. 1	573	136	77	1387

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Prig.	Vol.	Page.
Reaping and binding machine.....	J. S. Davis.....	557,193	Mar. 31	3051	{ 730 731 732 733 734 }	74	1772
Reaping-machine.....	B. F. Rich.....	557,608	Apr. 7	136	35,36	75	27
Reaping or mowing machine.....	G. Beekman.....	553,095	Jan. 14	1115	270	74	223
Receptacle. Ventilated.....	W. E. Howell.....	572,167	Dec. 1	138	30	77	1302
Recessing-tool.....	J. R. Topping and W. H. Honiss.....	554,466	Feb. 11	1193	278	74	742
Reciprocating drill.....	A. E. W. Meissner.....	553,534	Jan. 28	1883	445	74	397
Reciprocator.....	L. B. McDonald.....	557,415	Mar. 31	3452	{ 827 828 }	74	1847
Reclining-chair.....	D. J. Bigelow.....	564,361	July 21	1976	464	76	395
Reclining-chair.....	H. W. and H. H. Fleer.....	556,343	Mar. 17	1565	366	74	1454
Reclining-chair and couch.....	O. P. Breithnt.....	559,668	May 5	539	125	75	785
Reclining-chair, cot, or lounge.....	R. Richards.....	572,277	Dec. 1	326	78	77	1341
Reclining-chair swing and fan.....	E. D. Shaver.....	563,420	July 7	308	70	76	61
Recorder:							
See Cash-recorder.	Telegraph-recorder.						
Pocket-recorder.	Time-recorder.						
Sales-recorder.	Time and signal recorder.						
Speed-recorder.							
Recorder.....	H. M. Williams.....	567,017	Sept. 1	502	118	76	1377
Recording and reproducing impulses. Means for.....	W. H. Cooley.....	554,862	Feb. 18	1877	442	74	889
Recording apparatus.....	A. G. H. Oehms.....	573,473	Dec. 22	2502	593	77	1805
Recording instrument. Automatic.....	E. L. Miller.....	568,784	Oct. 6	126	29,30	77	26
Recording output of machinery. Apparatus for.....	P. Dillon.....	571,110	Nov. 10	1251	291	77	899
Recording-slip.....	W. A. Hawley.....	567,594	Sept. 15	1511	364	76	1588
Records. Preserving.....	F. W. R. Emery.....	561,503	June 2	785		75	1519
Rectilinear motor. Continuous-current.....	P. W. Leffler.....	561,899	June 9	1496	362	75	1678
Reducing-mill.....	W. O. Coffield.....	557,973	Apr. 7	797	190	75	150
Reed.....	J. O. Astenius.....	572,286	Dec. 1	351	83	77	1346
Reed for warping.....	H. Davenport.....	569,179	Oct. 13	791	{ 125 126 }	77	167
Reed instruments. Mouthpiece for.....	F. Clapp.....	554,242	Feb. 11	800	183	74	667
Reed-pipe.....	E. Howard.....	555,374	Feb. 25	2799	657	74	1076
Reeding device.....	B. G. Cahoon.....	559,843	May 12	900	200	75	866
Reel:							
See Bolting-reel.	Hose-reel.						
Carpenter's reel.	Measure-reel.						
Cloth-reel.	Paper-reel.						
Clothes-line reel.	Wire-reel.						
Fishing-reel.							
Reel.....	H. A. Guild.....	569,128	Oct. 6	699	163	77	133
Reel.....	C. O. White and M. B. Lloyd.....	554,226	Feb. 4	760	173	74	645
Reel-carrier.....	L. D. Arnold.....	557,752	Apr. 7	419	98	75	79
Reel-carrier.....	W. M. Barger.....	567,213	Sept. 8	836	198	76	1452
Reel-carrier.....	K. Morehead.....	568,916	Oct. 6	336	78	77	64
Reel-carrier.....	G. C. Phillips.....	558,309	Apr. 14	1411	347	75	285
Reel-carrier.....	B. F. Trembly.....	565,054	Aug. 4	153	36	76	646
Reel or hose support.....	C. W. Ruby.....	570,819	Nov. 3	725	166	77	773
Reel-seat.....	E. C. and A. R. Roll.....	553,725	Jan. 28	2218	525	74	457
Reeling-machine for paper or other fabrics.....	W. H. Waldron.....	570,355	Oct. 27	2926	695	77	591
Reflecting-cap for burners.....	B. F. Fowler and F. T. Higgins.....	557,795	Apr. 7	490	117	75	93
Reflecting-screen. Adjustable.....	P. Keyes.....	569,503	Oct. 13	1352	318	77	271
Reflector.....	A. Gähring.....	566,165	Aug. 18	2208	538	76	1068
Refrigerating apparatus.....	I. A. Dodge.....	559,267	Apr. 28	3135	758	75	640
Refrigerating apparatus.....	H. and R. R. Maxwell.....	560,516	May 19	2134	488	75	1143
Refrigerating apparatus. Coil-cleaning device for.....	C. Eurich and G. Donges.....	567,969	Sept. 22	2146	516	76	1723
Refrigerating-machine.....	G. F. Knox and E. L. Sharpneck.....	559,533	May 5	314	76	75	743
Refrigerating-machine.....	E. L. Sharpneck and G. F. Knox.....	559,753	May 5	685	{ 163 164 }	75	812
Refrigerating machinery.....	R. J. Cracknell.....	572,696	Dec. 8	1072	261	77	1502
Refrigerating plants. Automatic governor for.....	A. Shiels.....	553,077	Jan. 14	1075	262	74	216
Refrigerating-receptacle.....	F. W. Merrill.....	568,579	Sept. 29	3250	782	76	1943
Refrigerating shipping-crate.....	M. S. Millard.....	569,506	Oct. 13	1358	319	77	272
Refrigerator.....	H. M. Castner.....	566,740	Sept. 1	15	4	76	1283
Refrigerator.....	S. Dickinson.....	568,312	Sept. 22	2770	667	76	1840
Refrigerator.....	E. H. Giesy.....	570,426	Oct. 27	3059	725	77	616
Refrigerator.....	J. F. H. Gronwald.....	552,526	Jan. 7	40	11,12	74	10
Refrigerator.....	J. H. Hise.....	566,981	Sept. 1	435	102	76	1364
Refrigerator.....	C. R. Hoeborn.....	565,984	Aug. 18	1914	464	76	1013
Refrigerator.....	C. D. Holmes.....	569,788	Oct. 20	1896	450	77	385
Refrigerator.....	G. W. Jennings.....	553,855	Feb. 4	77	15,16	74	519
Refrigerator.....	R. A. Kneeland.....	566,585	Aug. 25	2952	720	76	1226
Refrigerator.....	M. J. McNeil.....	553,175	Jan. 14	1250	304	74	248
Refrigerator.....	N. Motelet.....	558,410	Apr. 14	1579	386	75	315
Refrigerator.....	E. L. Phipps.....	572,822	Dec. 8	1293	311	77	1543
Refrigerator.....	L. O. Read.....	556,372	Mar. 17	1624	381	74	1466
Refrigerator.....	J. J. Schneider.....	563,829	July 14	1143	268	76	229
Refrigerator.....	W. A. H. Schönefeld.....	564,719	July 28	2581	611	76	525
Refrigerator.....	D. L. Staze.....	564,165	July 14	1651	386	76	323
Refrigerator and counter. Display.....	H. P. McIntosh.....	570,043	Oct. 27	2322	551	77	477
Refrigerator-car.....	C. S. Hardy.....	565,351	Aug. 4	734	{ 175 176 }	76	752
Refrigerator-car.....	J. and J. Lorenz.....	562,087	June 16	1829	445	75	1758
Refrigerator-car.....	T. B. Roberts.....	556,374	Mar. 17	1629	{ 381 382 }	74	1466
Refrigerator-car.....	J. Thomas and J. M. Truby.....	564,660	July 28	2486	537	76	507
Refrigerator-car door.....	C. Bouchard.....	567,820	Sept. 15	1987	477	76	1682
Refrigerator-car door.....	M. J. La Flare.....	562,001	June 16	1665	406	75	1729
Refrigerator-crate.....	J. Thomas and J. M. Truby.....	555,835	Mar. 3	574	{ 138 139 }	74	1235
Refrigerator cut-off.....	R. J. Mills.....	556,429	Mar. 17	1735	403	74	1487

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.-g.	Vol.	Page.
Refrigerator. Display.....	W. A. Ehleb and D. O. Daugherty..	565,969	Aug. 18	1892	460	76	1008
Refrigerator. Evaporative.....	J. V. Frost.....	556,744	Mar. 24	2261	528	74	1602
Refrigerator. Evaporative.....	J. G. Lamb.....	568,259	Sept. 22	2684	643	76	1822
Refrigerator-shelf. Rotary.....	F. M. Lochen.....	565,908	Aug. 18	1767	430	76	924
Refrigerator. Shipping.....	C. N. Hunter.....	567,141	Sept. 8	728	170	76	1432
Refrigerator shipping-case.....	F. W. Morse.....	556,198	Mar. 10	1279	299	74	1385
Refrigerator. Window.....	M. E. Bingaman.....	556,612	Mar. 17	2050	479	74	1544
Refuse. Apparatus for removal and transportation of.....	C. A. E. de la Sauce.....	570,060	Oct. 27	2358	{ 560 561 }	{ 77 77 }	{ 484 484 }
Refuse-burner.....	I. S. McGiehan.....	554,453	Feb. 11	1170	272	74	738
Refuse. Hydraulic separator for town.....	P. Bonvillain.....	566,888	Sept. 1	258	59, 60	76	1331
Refuse of cities. Combined apparatus for separating and handling.....	J. E. Walsh.....	560,382	May 19	1910	434	75	1103
Refuse of cities. Means for treating.....	J. C. W. Stanley.....	565,577	Aug. 11	1163	279	76	851
Regenerating-furnace, &c.....	O. Schnigge.....	554,499	Feb. 11	1245	291	74	751
Regenerative furnace.....	S. T. Wellman.....	557,924	Apr. 7	706	170	75	133
Register:							
See Autographic regis-ter.	Passenger-register.						
Barrel and package register.	Pocket-register.						
Billiard-table regis-ter.	Scale-register.						
Car-register.	Telephone-register.						
Cash-register.	Telephone-call register.						
Fare-register.	Telephone-service regis-ter.						
Hot-air register.	Ticket-register.						
Laundry-register.	Time-register.						
Letter-carrier's regis-ter.	Triplicating-register.						
	Type-writer word-regis-ter.						
Register.....	T. B. Dixon.....	553,642	Jan. 28	2073	{ 489 490 }	{ 74 74 }	{ 431 431 }
Register.....	J. A. Mehling.....	568,033	Sept. 22	2276	551	76	1746
Register.....	F. H. Richards.....	563,884	July 14	1133	{ 265 266 }	{ 76 76 }	{ 228 228 }
Register or counter.....	J. B. Vandervort.....	566,430	Aug. 25	2684	655	76	1176
Registering apparatus. Nautical.....	P. Samohod.....	572,832	Dec. 8	1313	315	77	1547
Registering device.....	A. J. Cooley.....	566,297	Aug. 25	2417	594	76	1125
Registering device.....	G. A. Phillips.....	569,348	Oct. 13	1096	260	77	226
Registering device. Bottle.....	J. H. Bullard.....	573,329	Dec. 1	432	102	77	1361
Registering figures at distances. Electric apparatus for.....	M. Arndt.....	569,598	Oct. 20	1539	361	77	321
Registering instrument. Electrical.....	H. Lemp.....	556,425	Mar. 17	1722	401	74	1484
Registering-machine.....	L. E. Allen.....	573,381	Dec. 15	2288	{ 545 546 }	{ 77 77 }	{ 1748 1748 }
Registering or counting device.....	G. B. Bassett.....	567,288	Sept. 8	984	233	76	1477
Regulating treatment of substances chronometric-ally, &c. Device for.....	W. E. Curtis.....	557,192	Mar. 31	3048	{ 729 730 }	{ 74 74 }	{ 1771 1771 }
Regulator:							
See Air-current regula-tor.	Feeder-regulator.						
Chimney draft-regu-lator.	Fluid-pressure regulator.						
Current-regulator.	Gas-regulator.						
Damper-regulator.	Gas-pressure regulator.						
Density-regulator.	Heat-regulator.						
Draft-regulator.	Heat or draft regulator.						
Electric regulator.	Music-box regulator.						
Electric-current regu-lator.	Pressure-regulator.						
Electric-motor regu-lator.	Pump-regulator.						
Feed-regulator.	Speed-regulator.						
Feed-water regulator.	Stove heat-regulator.						
	Temperature-regulator.						
	Timepiece-regulator.						
	Watch-regulator.						
	Windmill-regulator.						
Reheating-furnace.....	W. H. Bailey.....	571,258	Nov. 10	1489	350	77	943
Rein attachment.....	J. L. Steinmetz.....	564,295	July 21	1863	436	76	375
Rein-guard.....	C. Jakson.....	570,097	Oct. 27	2429	576	77	499
Rein-guard.....	T. Thompson.....	566,818	Sept. 1	131	32	76	1306
Rein-holder.....	F. E. Barnes.....	572,148	Dec. 1	93	20, 21	77	1295
Rein-holder.....	G. Bartlett.....	553,772	Jan. 28	2289	542	74	471
Rein-holder.....	D. H. Blascow.....	553,219	Jan. 14	1326	322	74	263
Rein-holder.....	E. H. Howland.....	557,583	Apr. 7	102	26	75	21
Rein-support.....	A. C. Smith.....	563,148	Sept. 22	2499	601	76	1788
Rein-supporter.....	I. M. Polley.....	564,221	July 21	1739	407	76	353
Relasting-machine.....	E. E. Winkley.....	562,110	June 16	1866	452	75	1765
Relay.....	F. E. Chapman.....	558,672	Apr. 21	2042	492	75	417
Releasing device. Animal.....	J. A. Beamisderfer.....	554,208	Feb. 4	736	167	74	640
Releasing device. Automatic electric.....	J. W. Chute.....	552,954	Jan. 14	870	211	74	177
Releasing device. Electric.....	S. H. Reynolds.....	552,924	Jan. 14	818	199	74	166
Releasing device. Electrical.....	C. A. Stearns.....	562,431	June 23	2393	582	75	1881
Removable seat.....	J. O'Meara.....	554,720	Feb. 18	1623	{ 382 383 }	{ 74 74 }	{ 841 841 }
Rendering apparatus.....	W. S. Pierce.....	556,066	Mar. 10	1038	247	74	1341
Rendering-tank.....	C. C. Currier.....	565,436	Aug. 11	871	906	76	798
Repeater. Automatic.....	J. W. Frost.....	563,566	July 7	594	138	76	111
Retractor.....	J. T. R. Roeloffs.....	569,839	Oct. 20	1974	469	77	400
Reversible seat.....	G. W. Dryer.....	564,244	July 21	1774	415	76	360
Revolver.....	H. M. Caldwell.....	561,963	June 16	1605	390	75	1719
Revolver.....	J. H. Wesson.....	565,246	Aug. 4	579	135	76	721
Revolver.....	D. B. and J. H. Wesson.....	565,245	Aug. 4	577	135	76	721
Revolver cylinder-stop.....	C. Foehl.....	554,058	Feb. 4	462	104	74	589
Revolver ejector mechanism.....	G. H. Harrington and W. A. Rich-ardson.	557,814	Apr. 7	520	125	75	99
Revolver loading-gate.....	W. A. Richardson.....	565,692	Aug. 11	1362	332	76	890

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Revolver-lock	A. Fyrberg	566,393	Aug. 25	2614	639	76	1162
Revolver safety device	C. E. Foster	565,678	Aug. 11	1345	327	76	887
Revolver safety device	D. B. and J. H. Wesson	573,736	Dec. 22	2974	703	77	1896
Revolving case	W. L. Yost	555,550	Mar. 3	114	26	74	1151
Revolving chair	M. A. Hanson	561,165	June 2	163	41	75	1398
Revolving cutter	C. A. Smith	555,468	Feb. 25	2976	{ 708 709 }	74	1109
Revolving screen	C. Law	561,595	June 9	959	229	75	1577
Revolving stand for writers or others	J. M. McLeod	563,298	July 7	108	26	76	23
Rheostat	W. S. Andrews	559,349	May 5	1	1	75	681
Rheostat	H. P. Davis	559,685	May 5	563	133	75	790
Rheostat	W. W. Dean	567,223	Sept. 8	850	201	76	1454
Rheostat	A. C. Dinkey	570,009	Oct. 27	2256	{ 538 539 }	77	406
Rheostat	T. J. Fay	556,408	Mar. 17	1685	393	74	1477
Rheostat	H. E. Heath	557,386	Mar. 31	3400	816	74	1837
Rheostat	W. H. Morgan	553,538	Jan. 28	1890	446	74	398
Rheostat. Electric	F. H. Doane	558,362	Apr. 14	1493	367	75	300
Rheostat. Electric	H. W. Leonard	566,693	Aug. 25	3114	761	76	1256
Rheostat. Electric-motor	T. J. Fay	556,342	Mar. 17	1563	366	74	1454
Rheostat for electric motors	H. W. Leonard	563,600	July 7	615	144	76	115
Rheostat or electric heater	W. S. Hadaway, Jr., and W. E. Davis	562,527	June 23	2548	619	75	1909
Rheostat or heater. Electric	H. W. Leonard	558,559	Apr. 21	1836	446	75	381
Rheostat or heater. Electric	H. W. Leonard	560,588	May 19	2257	517	75	1165
Rheostat-plate	J. P. Ball	558,252	Apr. 14	1316	321	75	266
Rheostat. Shunt-circuit water	J. Buchel	560,340	May 19	1832	417	75	1088
Ribbon-clasp	E. L. Tiede	553,084	Jan. 14	1094	266	74	220
Ribbon-fastener	B. F. Orewiler	562,648	June 23	2764	671	75	1950
Ribbon-retainer	F. E. Denzel	557,115	Mar. 31	2897	692	74	1746
Ribbon-roll core	G. E. Grimm	567,898	Sept. 15	2012	483	76	1687
Riding-habit. Bicycle	H. Mostkowitz	569,027	Oct. 6	535	123	77	101
Rigging-stretcher	H. H. Pickenpack	554,834	Feb. 18	1821	{ 426 427 }	74	879
Rim-lock	W. H. Taylor	565,372	Aug. 4	763	182	76	758
Rim-lock	W. H. Taylor	571,027	Nov. 10	1089	254	77	869
Rim-wrench or tire-bolter	J. H. and C. H. Allen	552,977	Jan. 14	909	221	74	184
Ring:							
See Curtain-ring. Galvanic ring.	Curtain-pole ring. Key-ring.						
Ring	S. Buchsbaum	569,998	Oct. 27	2249	534	77	463
Ring and traveler-clearer	E. and S. Tweedale and J. Smalley	564,124	July 14	1568	368	76	309
Ring attachment	C. H. Wells	569,900	Oct. 20	2073	493	77	418
Ring for curtain, mosquito-bar, and other poles	E. Draube	568,897	Oct. 6	309	71	77	60
Ring forming and welding machine	J. H. Haskins	554,687	Feb. 18	1573	370	74	831
Rings. Device for reducing size of	G. P. Sommer and T. Sly	569,522	Oct. 13	1: 83	327	77	278
Rings. Means for squaring edges of and finishing finger-	J. S. Palmer	572,442	Dec. 1	627	148	77	1397
Rings or bands. Machine for making	H. Lilley	561,233	June 2	273	68	75	1420
Riprap and jetty work. Bracing and lashing	W. H. Harrelson	564,777	Feb. 18	1727	405	74	859
Rivers, streams, or sea from erosion. Means for protecting banks of	G. Villa	554,354	Feb. 11	996	230	74	704
Rivet	W. R. Fox	559,276	Apr. 28	3148	761	75	642
Rivet	A. G. Mead	553,210	Jan. 14	1315	318	74	261
Rivet	J. Temler	571,177	Nov. 10	1356	316	77	919
Rivet	R. B. Waters	555,137	Feb. 25	2384	566	74	998
Rivets, bolts, or screw-blanks. Automatic machine for forming heads on	G. A. N. Ermel	562,594	June 23	2685	649	75	1935
Rivets. Machine for making sheet-metal	H. H. Cummings	565,855	Aug. 11	1661	{ 407 408 }	76	946
Rivets or the like. Machine for making	A. C. Campbell	569,406	Oct. 13	1191	281	77	242
Rivets, studs, &c. Making	C. E. Test	565,049	Aug. 4	147	35	76	645
Riveter. Hydraulic	V. Schönbach	558,850	Apr. 21	2335	568	75	472
Riveting and pressing machine	C. B. Albree	558,140	Apr. 14	1122	274	75	230
Riveting. Electric	E. Thomson	555,131	Feb. 25	2374	564	74	996
Riveting machine	A. M. Baird	556,656	Mar. 17	2110	493	74	1556
Riveting machine	A. M. Baird	556,657	Mar. 17	2111	493	74	1557
Riveting machine	A. M. Baird	571,503	Nov. 17	1912	456	77	1036
Riveting machine	W. R. Fox	557,986	Apr. 7	821	195	75	154
Riveting machine	F. A. Jaberg	553,284	Jan. 21	1461	351	74	301
Riveting machine	R. Nolan and I. A. George	556,367	Mar. 17	1616	378	74	1461
Riveting machine	N. W. Pratt	561,606	June 9	975	233	75	1580
Riveting machine	L. E. Rhodes	565,568	Aug. 11	1138	{ 275 276 }	76	846
Road trap	F. L. Cook	554,616	Feb. 11	1445	339	74	790
Road-beds. Apparatus for cutting or grooving	M. J. McQuade	563,874	July 14	1109	261	76	223
Road-beds. Machine for shaping surfaces of	D. A. Walker	561,633	June 9	1023	{ 245 246 }	75	1588
Road making and repairing machine	M. G. Bunnell and A. M. Belfield	567,292	Sept. 8	990	{ 234 285 }	76	1478
Road making and repairing machine	M. G. Bunnell and C. G. Page	567,293	Sept. 8	992	{ 235 236 }	76	1478
Road-making machine	O. E. Moats	561,804	June 9	1330	319	75	1646
Road-planer	J. C. Steele	573,243	Dec. 15	2034	487	77	1702
Road-rail for highways	H. R. Keithley	572,303	Dec. 1	386	91	77	1352
Road-rake	A. Daggett	553,749	Jan. 28	2256	534	74	465
Road-roller. Reversible	M. G. Bunnell	558,933	Apr. 28	2492	605	75	518
Road-roller. Reversible	M. G. Bunnell	560,684	May 26	2487	{ 570 571 }	75	1224
Roadway	A. Bliss	573,757	Dec. 22	3001	711	77	1901
Roaster:							
See Coffee-roaster. Ore-roaster.							
Roasting-furnace	J. B. F. Herreshoff	556,750	Mar. 24	2280	536	74	1606
Roasting-furnace	J. R. Sears	562,158	June 16	1940	471	75	1779
Roasting-furnace	J. L. Wells	569,901	Oct. 20	2074	494	77	418

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Roasting-pan.....	A. Sickels.....	553,363	Jan. 21	1590	379	74	325
Roasting, smelting, and converting plant.....	H. W. Hixon.....	555,951	Mar. 10	803	193	74	1299
Robe or blanket holder.....	H. F. Crawford.....	561,376	June 2	555	140	75	1477
Rock and coal drill or auger.....	J. T. Snyder.....	558,994	Apr. 28	2597	631	75	538
Rock and ore pulverizer.....	C. C. Birum.....	559,433	May 5	154	33	75	711
Rock-boring machine.....	R. Meyer.....	558,652	Apr. 21	2003	485	75	411
Rock crushing and grinding apparatus.....	J. H. Kinkhead.....	559,980	May 12	1159	259	75	917
Rock-drill.....	J. F. Balsley and F. C. Priestly.....	572,855	Dec. 8	1341	{ 322 323 }	77	1554
Rock-drill.....	J. Hengen.....	560,500	May 19	2112	483	75	1139
Rock-drill.....	L. H. Jenkins.....	571,231	Nov. 10	1445	{ 337 338 339 }	77	935
Rock-drill.....	R. D. O. Johnson.....	560,801	May 26	2684	{ 616 617 }	75	1261
Rock-drill.....	A. M. Plumb.....	568,698	Sept. 29	3478	832	76	1986
Rock-drill.....	A. Scheid.....	555,128	Feb. 25	2368	563	74	995
Rock-drill.....	G. B. Seddon.....	559,818	May 12	836	196	75	854
Rock-drill feed-screw.....	W. A. Keyser.....	555,604	Mar. 3	204	47	74	1167
Rock-drill fixing and supporting apparatus.....	U. Salvotti.....	572,183	Dec. 1	154	37	77	1307
Rock-drill rotating device.....	H. C. Sergeant.....	559,619	May 5	462	107	75	771
Rock-drill with hydraulic feed. Rotary.....	A. E. W. Meissner.....	557,686	Apr. 7	289	70	75	55
Rock-drills. Rotary feeding device for.....	J. G. Leyner.....	568,089	Sept. 22	2394	577	76	1768
Rock-drills. Safety rotary feed for.....	J. G. Leyner.....	565,474	Aug. 11	947	225	76	813
Rock-drilling machine.....	J. M. Van Horn and G. H. Hayes.....	552,556	Jan. 7	93	25, 26	74	20
Rock-drilling machine. Hand-power.....	R. P. Elmore.....	573,454	Dec. 22	2462	584	77	1798
Rockaway. Skeleton standing-top.....	J. A. McDermott.....	556,199	Mar. 10	1280	299	74	1385
Rocker.....	W. M. Boenning and J. Gilson.....	558,476	Apr. 21	1710	414	75	357
Rocker-fender.....	C. A. Galbraith.....	556,411	Mar. 17	1695	395	74	1479
Rocker. Platform.....	W. C. Balke.....	556,128	Mar. 10	1147	269	74	1362
Rocking-chair.....	S. E. Blake.....	558,709	Apr. 21	2101	508	75	429
Rocking-chair.....	S. E. Blake.....	568,293	Sept. 22	2736	657	76	1833
Rocking-chair. Floor.....	W. I. Bunker.....	561,156	June 2	145	38	75	1394
Rocking-chair. Platform.....	W. I. Bunker.....	569,446	Oct. 13	1253	294	77	253
Rocking-chair. Platform.....	W. I. Bunker.....	569,447	Oct. 13	1254	{ 294 295 }	77	253
Rocking-chair. Revolving.....	V. A. Menez.....	561,719	June 9	1181	281	75	1619
Rocking or similar horse.....	M. E. Converse.....	570,002	Oct. 27	2259	537	77	465
Roll-pinion attachment.....	J. R. Davies.....	563,261	July 7	50	12	76	11
Rod.....							
See Curtain-rod.....							
Rod connection.....	H. P. Boyd.....	569,995	Oct. 27	2243	533	77	462
Rod-cutting apparatus.....	F. H. Richards.....	572,374	Dec. 1	517	{ 121 122 }	77	1376
Rod or bolt cutter.....	L. Silcott.....	569,067	Oct. 6	603	137	77	116
Rod or roller supporting device.....	J. Berwanger.....	569,319	Oct. 13	1045	248	77	216
Rods or bars. Apparatus for treating.....	G. H. Geyer.....	571,306	Nov. 10	1574	374	77	961
Roll or pulley. Split.....	G. E. Perkins.....	569,663	Oct. 20	1651	390	77	343
Rolls. Apparatus for dressing or polishing.....	R. G. Pilkington.....	573,528	Dec. 22	2580	{ 612 613 }	77	1820
Roller.....							
See Embossing-roller. Shade-roller.....							
Land-roller. Spring-roller.....							
Paving-roller. Street-roller.....							
Road-roller.....							
Roller and blind attachment.....	H. C. Johnston.....	574,152	Dec. 29	3723	887	77	2047
Roller-gate. Self-locking.....	M. T. Buchanan.....	565,427	Aug. 11	861	{ 203 204 }	76	796
Roller-mill.....	R. W. Welch.....	572,589	Dec. 8	883	213	77	1465
Roller-mill adjustment.....	M. Favrow.....	571,286	Nov. 10	1507	356	77	947
Roller-mill for grinding ink, &c.....	P. Lindemeyer, Jr.....	566,920	Sept. 1	318	74	76	1343
Rolling metal tubes. Machine for.....	H. O. Harris.....	573,473	Dec. 29	3214	764	77	1954
Rolling metal tubes. Machine for.....	E. F. Holmgren.....	573,877	Dec. 29	3220	766	77	1956
Rolling-mill.....	G. W. Jones.....	560,585	May 19	2253	516	75	1165
Rolling-mill.....	J. R. Jones.....	573,000	Dec. 15	1606	{ 385 386 }	77	1623
Rolling-mill.....	O. Klatte.....	565,996	Aug. 18	1938	469	76	1018
Rolling-mill.....	G. Schuhmann.....	565,512	Aug. 11	1051	252	76	830
Rolling-mill adjustment.....	G. W. McClure.....	557,861	Apr. 7	598	142	75	113
Rolling-mill feed-table.....	P. Berg.....	559,685	May 5	534	123	75	784
Rolling-mill feed-table.....	S. V. Huber.....	568,254	Sept. 22	2672	640	76	1820
Rolling-mill feed-table.....	S. V. Huber.....	568,949	Oct. 6	397	89, 90	77	76
Rolling-mill feed-table.....	S. V. Huber.....	569,283	Oct. 13	975	234	77	201
Rolling-mill feed-table.....	S. V. Huber.....	572,168	Dec. 1	129	30, 31	77	1302
Rolling-mill feed-table.....	S. V. Huber.....	573,185	Dec. 15	1934	{ 464 465 }	77	1684
Rolling-mill feed-table.....	W. H. McFadden.....	572,175	Dec. 1	142	34	77	1304
Rolling-mill for producing continuous and endless articles.....	O. Klatte.....	562,621	June 23	2721	{ 659 660 661 }	75	1942
Rolling-mill for rolling seamless annular bodies.....	H. Ehrhardt.....	564,009	July 14	1356	316	76	268
Rolling-mill platform.....	W. Davies.....	564,597	July 28	2390	563	76	488
Rolling-mill repeater.....	S. V. Huber.....	555,375	Feb. 25	2800	657	74	1076
Rolling mill. Sheet-metal.....	J. Matthews.....	556,193	Mar. 10	1269	296	74	1383
Rolling-mill. Three-high.....	A. Thomas.....	553,368	Jan. 21	1597	381	74	327
Rolling-pin and dough-cutter. Combined.....	W. M. Pugh.....	565,635	Aug. 11	1258	303	76	889
Rolling rings, &c. Apparatus for.....	W. D. and J. Eynon.....	554,482	Feb. 11	1218	{ 285 286 }	74	746
Rolling suspension-rails. Rolls for.....	J. W. Thomas.....	560,949	May 26	2958	679	75	1313
Roof.....	W. W. Turner.....	571,416	Nov. 17	1749	417	77	1007
Roof.....	W. W. Turner.....	571,417	Nov. 17	1750	418	77	1007
Roof construction.....	F. L. Cook.....	568,066	Sept. 22	2344	566	76	1757
Roof-making appliance.....	G. C. Henning.....	559,132	Apr. 28	2880	694	75	592

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Roof. Tile	C. Keiser	554,274	Feb. 11	856	{ 196 197	74	678
Roof-truss	O. J. Stouffer	571,055	Nov. 10	1134	{ 265 266	77	878
Roof-valley	R. Jahn	571,565	Nov. 17	2014	479	77	1054
Roofing-bracket	J. W. Shirer	568,003	Sept. 22	2216	535	76	1735
Roofing. Metal	W. W. Turner	573,937	Dec. 29	3324	794	77	1975
Roofing. Metallic	P. C. Patterson	556,207	Mar. 10	1290	302	74	1387
Roofing-plate. Metallic	F. M. Vogan	567,700	Sept. 15	1685	405	76	1623
Roofing, siding, &c. Metallic	P. C. Patterson	556,206	Mar. 10	1289	301	74	1387
Rope belting and fastener therefor	J. W. Hyatt	566,455	Aug. 25	2762	671	76	1189
Rope carrier. Fall	W. L. Garrels	569,127	Oct. 6	697	163	77	133
Rope-clamp	O. E. Dubois	558,048	Apr. 14	975	239	75	201
Rope-clamp	O. E. Dubois	558,049	Apr. 14	976	239	75	201
Rope-clamp	J. M. Logue	570,287	Oct. 27	2768	658	77	563
Rope-clamp	E. A. Lougee	566,404	Aug. 25	2635	643	76	1166
Rope-clamp	D. Z. McGinnis, C. C. Rowley, and J. S. Bean	563,676	July 7	743	175	76	140
Rope-clamp. Safety	W. H. Duhy	559,443	May 5	169	37	75	714
Rope-fastener	A. L. Adams	568,827	Oct. 6	192	46	77	39
Rope-grip	A. W. Wilson	556,485	Mar. 17	1826	425	74	1504
Rope-handling device	O. E. Dubois	561,976	June 16	1625	396	75	1732
Rope tie	J. P. Hisley	555,770	Mar. 3	471	112	74	1215
Rossing-machine	A. E. Beals	572,948	Dec. 15	1516	{ 362 363	77	1604
Rotary cutter	L. S. Heald	567,135	Sept. 8	721	169	76	1430
Rotary cutter	A. S. Vose. (Reissue)	11,526	Mar. 24	2867	685	74	1718
Rotary engine	J. G. Albee	566,959	Sept. 1	380	89	76	1354
Rotary engine	R. and A. L. Bauer	573,959	Dec. 29	3373	807	77	1984
Rotary engine	E. O. Bennett	560,252	May 19	1680	383	75	1063
Rotary engine	A. W. R. Berr	558,144	Apr. 14	1130	{ 275 276	75	231
Rotary engine	G. E. Boom	557,476	Mar. 31	3552	{ 848 849	74	1866
Rotary engine	E. Chaboche	569,408	Oct. 13	1198	282	77	243
Rotary engine	M. E. Clark	572,961	Dec. 15	1544	{ 369 370	77	1610
Rotary engine	S. S. Fertig	560,314	May 19	1790	407	75	1081
Rotary engine	G. P. Fischer	566,156	Aug. 18	2197	534	76	1066
Rotary engine	B. W. Fisk and W. M. Camp	566,303	Aug. 25	2432	596	76	1128
Rotary engine	I. N. Forrester	560,579	May 19	2245	514	75	1163
Rotary engine	J. A. Goodner and J. M. Chritton	573,179	Dec. 15	1920	{ 460 461	77	1682
Rotary engine	C. A. and O. W. Hult	563,929	July 14	1215	{ 284 285	76	242
Rotary engine	S. P. Ingram	553,408	Jan. 21	1661	397	74	339
Rotary engine	I. R. Kern	556,354	Mar. 17	1588	{ 372 373	74	1458
Rotary engine	A. A. Kryszat	562,405	June 23	2347	{ 572 573	75	1872
Rotary engine	A. A. Kryszat	571,377	Nov. 17	1691	{ 402 403	77	996
Rotary engine	A. F. S. van de Laar	571,727	Nov. 17	2282	{ 547 548	77	1105
Rotary engine	P. A. Larson	562,545	June 23	2576	625	75	1914
Rotary engine	R. and E. Lanzone	572,707	Dec. 8	1094	{ 265 266	77	1506
Rotary engine	B. A. Legg	560,221	May 19	1614	364	75	1052
Rotary engine	E. M. Lindfors	567,104	Sept. 1	659	{ 153 154	76	1407
Rotary engine	J. McCloskey	554,290	Feb. 11	882	203	74	684
Rotary engine	H. T. Morse	562,843	June 30	3127	{ 757 758	75	2036
Rotary engine	O. E. Morse	552,854	Jan. 7	657	161	74	124
Rotary engine	W. E. Prall, Jr	562,152	June 16	1927	{ 468 469	75	1777
Rotary engine	H. Ritter	560,368	May 19	1881	429	75	1097
Rotary engine	J. G. Rosling	553,428	Jan. 21	1695	404	74	344
Rotary engine	R. Schlegel	572,127	Dec. 1	59	14	77	1289
Rotary engine	G. J. Scott	565,123	Aug. 4	304	72	76	673
Rotary engine	L. Sivertson	562,159	June 16	1943	{ 471 472	75	1780
Rotary engine	F. A. Small	552,646	Jan. 7	241	66, 67	74	47
Rotary engine	G. W. Soulé	560,760	May 26	2609	600	75	1247
Rotary engine	J. Walker	556,227	Mar. 10	1324	310	74	1394
Rotary engine	L. Wanner	569,693	Oct. 20	1713	406	77	354
Rotary engine	W. M. Wheildon	553,086	Jan. 14	1097	{ 266 267	74	220
Rotary engine	C. G. White	570,584	Nov. 3	279	69	77	690
Rotary engine	A. T. and A. R. Wilson	570,889	Nov. 3	861	200	77	801
Rotary motor	J. E. Crisp	560,194	May 19	1560	354	75	1042
Rotary motor	G. Filtz	562,382	June 23	2317	{ 562 563	75	1866
Rotary steam-engine	F. O. Deschamps	568,337	Sept. 29	2817	{ 677 678	76	1863
Rotary steam-engine	W. L. Evans, Jr	552,992	Jan. 14	932	225	74	189
Rotary steam-engine	J. L. Lampe, Jr	571,378	Nov. 17	1683	403	77	996
Rotary steam-engine	L. G. Ljungström	571,581	Nov. 17	1697	404	77	997
Rotary steam-engine	W. Smith and T. Scott	565,641	Aug. 11	1266	306	76	870
Rotary steam-engine	F. Steinkoenig	563,814	July 14	995	234	76	200
Rotary top table. Double	B. F. Stevens	556,566	Mar. 17	1974	461	74	1531
Roundabout	A. A. F., and E. G. Sustins	570,739	Nov. 3	597	137	77	748
Rounding-jack	J. Valentine	554,467	Feb. 11	1195	278	74	742
Rounding or trimming machine	G. A. Ambler	560,829	May 26	2730	627	75	1272

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Router.	H. E. Purdy	569,054	Oct. 6	586	134	77	112
Roving drawing and concentrating machines. Stop-motion for	E. Welty	563,343	July 7	194	43	76	40
Rowlock	F. H. Bassett	559,836	May 12	887	198	75	864
Rowlock	O. O. Storle	555,747	Mar. 3	444	106	74	1209
Rowlock for boats	W. H. Taylor	564,725	July 28	2604	621	76	528
Rubber and producing same. Article consisting of inlaid soft	R. S. Graham and W. B. Savell	563,164	June 30	3712	888	75	2152
Rubber ball	R. T. Elwell	567,459	Sept. 8	1285	311	76	1531
Rubber boot	J. Lacroix	556,059	Mar. 10	1020	244	74	1338
Rubber boot	W. Norris	553,130	Jan. 14	1168	284	74	234
Rubber boot or shoe	A. C. Torbert	569,125	Oct. 6	695	162	77	132
Rubber-dam clamp	R. Richter	562,490	June 23	2487	603	75	1898
Rubber-heel-attaching device	A. N. Barrett	562,113	June 16	1869	453	75	1766
Rubber or the like. Machine for corrugating sheets of	R. Parker and B. F. Sutton	560,365	May 19	1874	427 428	75	1096
Rubber-separator	W. F. Askam	572,854	Dec. 8	1340	322	77	1553
Rubber shoe	W. B. Kinsley	573,664	Dec. 22	2853	673	77	1873
Rubber shoe	E. A. Saunders	559,044	Apr. 28	2687	654	75	555
Rubber-soled footwear. Manufacture of	C. L. Higgins	558,279	Apr. 14	1359	332	75	274
Rubber soles to shoes. Apparatus for vulcanizing	G. F. Butterfield	574,238	Dec. 29	3933	935 936	77	2084
Rubber soles to shoes. Vulcanizing	G. F. Butterfield	574,239	Dec. 29	3935	936	77	2084
Rubber-working machine	F. Hadfield	571,226	Nov. 10	1434	335	77	933
Rubbers or overshoes on shoes. Device for retaining	N. D. Edmonds	558,937	Apr. 28	2501	607	75	520
Ruffler	R. S. Barnum	564,359	July 21	1971	463	76	394
Rug and bed. Traveling or camping-out	S. E. Walsh	559,641	May 5	499	114	75	777
Rug, carpet, &c. Imitation Smyrna	G. Hornig	568,113	Sept. 22	2435	584	76	1775
Rule	J. D. Maier, Jr.	556,582	Mar. 17	2001	467	74	1536
Rule and lead cutter	W. H. Golding	571,919	Nov. 24	2656	629	77	1194
Rule and lining-gage. Spacing	B. H. Harris and G. A. Corbin	573,973	Dec. 29	3411	818	77	1990
Rule and stamp-holder. Combined measuring	W. M. Simonson	565,932	Aug. 18	1808	440	76	992
Rule and try-square. Combined	G. W. Snyder	567,869	Sept. 15	1972	473	76	1678
Rule. Key-seat	F. Cramblitt	568,192	Sept. 22	2558	618	76	1800
Rule miter-gage attachment	F. Reissmann	571,052	Nov. 10	1129	264	77	878
Ruler	P. W. Leavitt	566,195	Aug. 18	2258	552	76	1078
Ruler	W. Savidge	563,510	July 7	468	116	76	89
Ruler	C. F. Windisch	565,319	Aug. 4	681	163	76	742
Ruler and marker. Combined	C. Schnorberger	567,616	Sept. 15	1541	372	76	1594
Ruler and paper-cutter	E. P. Davies	552,988	Jan. 14	924	224	74	187
Ruler. Antiblotting	J. F. Beard	564,141	July 14	1593	373	76	314
Ruler. Blackboard	M. A. Harris	561,585	June 9	939	225	75	1573
Ruler. Calculating	C. R. Jouve	571,567	Nov. 17	2017	480	77	1055
Ruler. Extensible	C. E. and M. R. Jewell	563,277	July 7	73	18	76	15
Ruler. Folding parallel	J. W. Leeds	564,204	July 21	1716	401	76	348
Ruler. Parallel	F. Bardelli and K. Danielovsky	561,474	June 2	734	181	75	1508
Ruler. Parallel	M. H. Hewitt	562,298	June 16	2169	527	75	1823
Ruler. Parallel	W. Weidner	564,490	July 21	2187	512	76	434
Ruling device. Paper	B. Karfiol	561,996	June 16	1656	405	75	1728
Ruling-machine	L. S. Bigelow	554,976	Feb. 18	2071	493	74	925
Ruling-machine	C. Burrows	568,235	Sept. 22	2641	634	76	1815
Ruling-machine	C. Burrows	568,236	Sept. 22	2649	635	76	1816
Ruling-machine	C. F. Förste	553,189	Jan. 14	1279	309	74	254
Ruling machine. Paper	L. S. Bigelow	558,764	Apr. 21	2193	528	75	445
Ruling machine. Paper	R. H. Welch	564,672	July 28	2504	592 593	76	511
Ruling machine. Slate	E. F. H. Westenfeld	573,843	Dec. 22	3149	751	77	1929
Ruling machines. Electric attachment for paper	J. McAdams	559,190	Apr. 28	2979	720	75	611
Saccharin. Making	C. Fahlberg	564,784	July 28	2706	.....	76	546
Sack filling and sewing machine	A. T. Timewell	562,438	June 23	2406	584 585	75	1883
Sack-holder	A. L. Baughman	561,082	June 2	6	2	75	1368
Sack. Sleeping	F. H. Scatchard	569,521	Oct. 13	1385	327	77	277
Sack-tie. Metallic	F. Drifill	567,336	Sept. 8	1076	257	76	1494
Sad-iron	F. E. Drury and W. C. Skinner	562,889	June 30	3215	777	75	2053
Sad-iron	T. F. Hagerty	556,537	Mar. 17	1934	451	74	1523
Sad-iron	F. E. Hunter	566,685	Aug. 25	3102	758	76	1254
Sad-iron	E. McCadden	553,813	Jan. 28	2355	560	74	484
Sad-iron	F. J. Pribyl	557,227	Mar. 31	3112	746	74	1782
Sad-iron	S. R. Spradlin	553,197	Jan. 14	1291	312	74	256
Sad-iron and frailer. Combined	R. A. Boyd	557,477	Mar. 31	3555	849	74	1867
Sad-iron. Electric	F. H. Date, J. Heffron, B. H. Scranton, and J. Scudder	565,136	Aug. 4	344	81, 82	76	681
Sad-iron hanger or support	G. H. Wagner	561,245	June 2	286	72	75	1423
Sad-iron holder. Sheet-metal	J. Graves	562,394	June 23	2332	568	75	1869
Sad-iron holding and storing device	J. S. Hall	565,350	Aug. 4	732	175	76	752
Saddle	H. Briggs	567,881	Sept. 15	1989	477	76	1682
Saddle	C. E. Dyer	560,698	May 26	2510	576	75	1928
Saddle	H. W. Lester	562,965	June 30	3370	810	75	2088
Saddle	J. A. Metcalf	553,211	Jan. 14	1316	319	74	261
Saddle bridge. Adjustable pack	G. F. Fortier	556,668	Mar. 17	2126	496	74	1559
Saddle-cover	A. F. Machold	570,033	Oct. 27	2305	547	77	475
Saddle-flap retainer	J. M. Martin	567,278	Sept. 8	967	229	76	1474
Saddle. Harness	O. F. Seyfarth	562,351	June 16	2089	506	75	1808
Saddle. Harness	J. Stephens	567,303	Sept. 8	819	194	76	1449
Saddle. Harness	H. Tobiason	559,917	May 12	1045	233	75	892
Saddle. Harness	W. A. Walker	555,592	Mar. 3	181	42	74	1163
Saddle-pack cover	R. Murray	557,011	Mar. 24	2739	649	74	1691
Saddle. Riding	W. D. Davis	568,939	Oct. 6	377	55	77	73
Saddle. Riding	W. C. and J. D. Padgitt	559,199	Apr. 28	3002	725 726	75	617
Saddle. Riding	C. W. Percifield	571,684	Nov. 17	2206	531	77	1090
Saddle safety attachment. Riding	L. Baur	558,029	Apr. 14	938	232	75	194
Saddletree	G. Theobald	564,726	July 28	2605	621	76	528

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Saddletree. Harness.....	A. S. Dersch.....	564,976	Aug. 4	29	6	76	622
Saddletree. Harness.....	A. E. Post.....	571,393	Nov. 17	1714	408	77	1001
Saddle tree. Side.....	T. E. White and J. A. Day.....	559,829	May 12	865	192	75	859
Safe.....	T. M. Brintnall.....	559,566	May 5	371	90	75	754
Safe.....	T. M. Brintnall.....	562,277	June 16	2130	{ 517 518 519 }	75	1815
Safe.....	T. M. Brintnall and D. A. Lane.....	561,086	June 2	13	3, 4	75	1369
Safe.....	A. G. Burton.....	564,002	July 14	1345	313	76	265
Safe.....	H. J. Colburn.....	568,429	Sept. 29	2965	{ 712 713 }	76	1891
Safe.....	J. B. Huss.....	553,120	Jan. 14	1155	280	74	231
Safe.....	L. Mannstaedt.....	553,348	Jan. 21	1566	374	74	320
Safe.....	C. H. Mead.....	558,088	Apr. 14	1041	254	75	213
Safe.....	L. L. Treman.....	559,111	Apr. 28	2505	679	75	581
Safe-alarm.....	H. H. Freeman.....	570,011	Oct. 27	2268	539	77	467
Safe attachment.....	A. Oberndorf, Jr.....	562,737	June 23	2922	709	75	1979
Safe attachment.....	A. Oberndorf, Jr.....	563,681	July 7	749	177	76	141
Safe-lock.....	A. G. Burton.....	553,051	Jan. 14	1021	{ 250 251 }	74	206
Safe-lock.....	J. H. Hulse, W. E. Bray, and F. N. Steen.....	554,126	Feb. 4	606	137	74	615
Safe. Portable.....	R. C. Davis.....	552,517	Jan. 7	26	8	74	8
Safe-wall.....	L. L. Treman.....	559,112	Apr. 28	2807	679	75	581
Safety-elevator.....	J. Parkinson.....	556,434	Mar. 17	1744	{ 405 406 }	74	1489
Safety-gate.....	W. E. Batchelder.....	559,318	Apr. 28	3212	{ 775 776 }	75	654
Safety-hook.....	H. F. Lyman.....	553,123	Jan. 14	1161	282	74	232
Safety-pin.....	G. Boden.....	553,049	Jan. 14	1019	249	74	205
Safety-pin.....	J. H. Bronson.....	556,001	Mar. 10	898	214	74	1318
Safety-pin.....	C. A. Bryant.....	561,199	June 2	225	54	75	1411
Safety-pin.....	C. A. Bryant.....	561,200	June 2	227	54	75	1411
Safety-pin.....	C. H. Curran and E. Whalley.....	555,723	Mar. 3	405	94	74	1202
Safety-pin.....	F. Deming.....	571,943	Nov. 24	2695	638	77	1203
Safety-pin.....	J. M. Guilbert.....	563,272	July 7	66	17	76	14
Safety-pin.....	R. Kelso and M. Rosenbaum.....	573,002	Dec. 15	1610	387	77	1623
Safety-pin.....	A. T. Snell.....	571,054	Nov. 10	1132	265	77	878
Safety-pin.....	W. H. Stimson.....	557,347	Mar. 31	3334	800	74	1825
Safety-pin.....	W. I. Tunison.....	568,384	Sept. 29	2894	696	76	1878
Safety-stand.....	H. E. Friese.....	557,660	Apr. 7	256	61	75	48
Safety-switch.....	E. Jokland W. M. Christian.....	570,808	Nov. 3	701	160	77	768
Sail. Fore-and-aft.....	G. H. Wilson.....	555,631	Mar. 3	253	58	74	1176
Sails. Reefing apparatus for fore-and-aft.....	F. V. de Bem.....	569,602	Oct. 20	1543	{ 362 363 }	77	322
Sale and delivery mechanism. Prepayment.....	J. Delaney.....	569,147	Oct. 6	735	{ 172 173 174 }	77	139
Sale and delivery mechanism. Prepayment.....	J. Delaney.....	569,148	Oct. 6	742	174	77	140
Sales and exhibiting rack.....	S. Frank.....	559,795	May 12	770	185	75	842
Sales-checking apparatus.....	A. N. Southwick.....	574,010	Dec. 29	3472	830	77	2001
Sales-indicator and alarm.....	C. F. Davis.....	560,195	May 19	1563	354	75	1043
Sales-pad.....	W. H. Breakspear, O. Spannaus, and C. Weisbecker.....	571,552	Nov. 17	1997	474	77	1051
Sales-recorder and cash-drawer. Manual.....	G. S. Knight.....	563,185	June 30	3749	{ 697 698 }	75	2159
Sales-recorder. Manual.....	W. H. Breakspear, O. Spannaus, and C. Weisbecker.....	554,049	Feb. 4	449	99	74	587
Sales-recording apparatus.....	F. N. Brewer.....	565,133	Aug. 4	323	{ 77 78 79 80 }	76	677
Salicylic compound and making same.....	R. Schiff.....	569,429	Oct. 13	1223	.....	77	248
Saline solutions. Utilizing.....	C. N. Waite.....	558,240	Apr. 14	1296	.....	75	262
Saline solutions. Utilizing.....	C. N. Waite.....	558,241	Apr. 14	1297	.....	75	262
Salol. Substituted.....	B. R. Seifert.....	561,730	June 9	1201	.....	75	1623
Salt and pepper box. Combined.....	D. M. Kittle.....	557,682	Apr. 7	255	68	75	54
Salt-packer.....	E. W. Cooper.....	563,260	July 7	50	12	76	11
Salt-shaker.....	F. B. Thatcher.....	568,503	Sept. 29	3096	746	76	1915
Salt-shaker.....	F. B. Thatcher.....	572,138	Dec. 1	82	17	77	1293
Salt to cattle. Device for feeding.....	E. A. Hendrickson.....	561,815	June 2	442	109	75	1456
Saluting device.....	J. C. Boyle.....	556,248	Mar. 10	1360	320	74	1400
Sample-case.....	C. J. Stravio.....	566,484	Aug. 25	2808	684	76	1198
Sample-case. Folding.....	H. Braen.....	574,130	Dec. 29	3689	870	77	2041
Sample-holder.....	C. D. Allen.....	568,012	Sept. 22	2326	538	76	1737
Sampling cotton, &c. Device for.....	M. Swenson.....	557,088	Mar. 24	2853	6-3	74	1716
Sampling-machine.....	C. C. Moore, Jr.....	573,610	Dec. 22	2726	648	77	1849
Sand-band.....	C. R. Gibson.....	569,869	Oct. 20	2021	482	77	408
Sand-blast and apparatus employed in operating by sand-blasts.....	A. Gutmann.....	573,180	Dec. 15	1923	{ 461 462 }	77	1683
Sand-box.....	A. S. Cummins.....	560,346	May 19	1841	419	75	1090
Sand-box.....	T. L. Monaghan.....	563,773	Aug. 11	1514	369	76	918
Sand-box.....	D. Moyer.....	561,018	May 26	3060	705	75	1333
Sand-box.....	J. A. Rose.....	562,918	June 30	3260	787	75	2063
Sand-box.....	C. G. Wells.....	568,122	Sept. 22	2451	588	76	1779
Sand-box and mechanism for operating same.....	F. E. Tobé.....	565,578	Aug. 11	1165	279	76	851
Sand-distributor.....	J. Martin.....	554,603	Feb. 11	1419	332	74	785
Sand-distributing apparatus.....	C. W. Buckley.....	559,671	May 5	543	126	75	786
Sand-drier.....	J. H. Green.....	555,001	Feb. 18	2123	505	74	934
Sand-guard.....	A. Booth.....	562,115	June 16	1871	454	75	1766
Sand-heater.....	J. R. Mayer.....	571,382	Nov. 17	1699	404	77	997
Sand-molding machine.....	A. B. Kilpatrick.....	564,891	July 28	2879	690	76	578
Sanding-box.....	T. Dowd.....	558,047	Apr. 14	974	239	75	201
Sandpaper-holder.....	A. Hornig.....	554,065	Feb. 4	471	106	74	591

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sandpapering and buffing machine.....	T. E. Keavy.....	559,491	May 5	244	55, 56	75	729
Sandpapering machine.....	E. J. Bein.....	561,557	June 9	889	214	75	1563
Sandpapering machine.....	W. Black.....	564,587	July 28	2372	558	76	485
Sandpapering machine.....	J. B. Locke.....	567,905	Sept. 15	2021	485	76	1688
Sandpapering machine.....	F. Peterson.....	564,712	July 28	2569	{ 608 609 }	76	523
Sap-gathering tank.....	W. E. Burt.....	559,358	May 5	15	5	75	683
Sap-spout.....	F. H. Lewis.....	566,728	Aug. 25	3177	776	76	1266
Sap-spout.....	J. B. Sessions.....	552,623	Jan. 7	205	57	74	40
Sash. Adjustable sliding and swinging window.....	E. S. Barney.....	569,146	Oct. 6	733	172	77	139
Sash-balance.....	J. H. Bane.....	557,940	Apr. 7	729	175	75	138
Sash-balance.....	R. K. Brown.....	556,659	Mar. 17	2113	494	74	1557
Sash-balance.....	R. L. Brown.....	568,739	Oct. 6	42	10	77	11
Sash-balance.....	G. W. Fernald.....	565,612	Aug. 11	1221	294	76	862
Sash-balance.....	J. T. Sands.....	556,696	Mar. 17	2168	506	74	1568
Sash-balance. Friction.....	P. Clark.....	572,049	Nov. 24	2869	674	77	1235
Sash-balance. Roller.....	R. B. Hugunin.....	552,761	Jan. 7	477	118	74	90
Sash-balancing device.....	P. Marshall.....	561,014	May 26	3050	702	75	1331
Sash-bar. Metal.....	J. E. Flanagan.....	517,970	Sept. 22	2147	517	76	1723
Sash-cord fastener.....	F. L. Rosentreter.....	559,953	May 12	1105	246	75	902
Sash-cord guide.....	F. S. Clarkson.....	557,489	Mar. 31	3582	858	74	1871
Sash-cord holder.....	C. U. Hannum.....	570,631	Nov. 3	396	94	77	711
Sash-fastener.....	L. S. Bache.....	558,757	Apr. 21	2187	525	75	444
Sash-fastener.....	C. C. A. Bauercamper.....	552,884	Jan. 14	731	178	74	151
Sash-fastener.....	F. E. Benedict.....	573,255	Dec. 15	2053	491	77	1706
Sash-fastener.....	H. A. Bennett.....	559,683	May 5	532	122	75	784
Sash-fastener.....	H. A. Book.....	557,953	Apr. 7	761	181	75	143
Sash-fastener.....	J. L. Bossler.....	567,073	Sept. 1	601	140	76	1396
Sash-fastener.....	C. J. Clarke.....	572,408	Dec. 1	580	138	77	1388
Sash-fastener.....	P. S. Dunn.....	558,366	Apr. 14	1500	369	75	301
Sash-fastener.....	R. English, S. Vann, and A. H. Jones.....	573,666	Dec. 29	3198	761	77	1951
Sash-fastener.....	T. E. Epting.....	561,504	June 2	786	191	75	1519
Sash-fastener.....	J. N. Kuwer.....	559,483	May 5	234	52	75	728
Sash-fastener.....	F. Fallows and A. J. Moore.....	559,373	May 5	39	9	75	688
Sash-fastener.....	J. R. Finley.....	567,228	Sept. 8	862	206	76	1456
Sash-fastener.....	P. Fleming.....	552,611	Jan. 7	187	51	74	37
Sash-fastener.....	W. A. Gannell.....	573,509	Dec. 22	2550	604	77	1814
Sash-fastener.....	G. W. Gardner and L. Appleton.....	555,368	Feb. 25	2789	653	74	1074
Sash-fastener.....	R. D. Goodlett.....	562,388	June 23	2324	565	75	1867
Sash-fastener.....	C. M. Green.....	571,360	Nov. 17	1663	394	77	991
Sash-fastener.....	R. A. Griffin.....	565,743	Aug. 11	1461	357	76	907
Sash-fastener.....	C. Hoffman.....	570,665	Nov. 3	465	109	77	725
Sash-fastener.....	G. M. Hubbard.....	564,426	July 21	2090	489	76	416
Sash-fastener.....	G. L. and C. E. Hurd.....	562,536	June 23	2559	622	75	1912
Sash-fastener.....	F. E. Jarvis.....	565,168	Aug. 4	408	98	76	693
Sash-fastener.....	E. Jaus.....	566,184	Aug. 18	2240	548	76	1075
Sash-fastener.....	G. Mehl.....	570,035	Oct. 27	2307	548	77	475
Sash-fastener.....	E. S. Morton.....	560,320	May 19	1800	410	75	1083
Sash-fastener.....	A. A. Page.....	556,368	Mar. 17	1617	378	74	1464
Sash-fastener.....	F. Phelps and P. Daw.....	560,817	May 26	2706	621	75	1267
Sash-fastener.....	J. F. Pool.....	554,305	Feb. 11	911	210	74	689
Sash-fastener.....	H. M. Priest.....	563,616	July 7	642	149	76	121
Sash-fastener.....	H. S. G. Ray.....	573,295	Dec. 15	2140	513	77	1721
Sash-fastener.....	J. B. Reilly and C. F. Ziegler.....	567,689	Sept. 15	1667	401	76	1619
Sash-fastener.....	G. R. Root.....	553,627	Jan. 28	2040	483	74	425
Sash-fastener.....	H. J. Sarratt.....	562,036	June 16	1733	419	75	1742
Sash-fastener.....	L. C. Smith.....	567,620	Sept. 15	1550	374	76	1596
Sash-fastener.....	L. C. Smith.....	567,621	Sept. 15	1551	374	76	1596
Sash-fastener.....	W. H. Stow.....	573,553	Dec. 22	2628	624	77	1829
Sash-fastener.....	C. H. E. Succop.....	561,451	June 2	698	172	75	1702
Sash-fastener.....	F. B. Townsend.....	561,927	June 9	1535	372	75	1685
Sash-fastener.....	J. A. H. Umbach.....	571,465	Nov. 17	1834	437	77	1023
Sash-fastener.....	A. N. Woodard.....	572,591	Dec. 8	885	214	77	1466
Sash fastener and operator.....	S. H. Terry.....	566,428	Aug. 25	2681	{ 654 655 }	76	1176
Sash fastener and support.....	J. B. Cahoon.....	573,439	Dec. 22	2433	577	77	1793
Sash fastener. Outside.....	S. Eldridge.....	558,050	Apr. 14	977	240	75	201
Sash fastener. Storm.....	A. A. Loetscher.....	557,408	Mar. 31	3444	825	74	1845
Sash-guide.....	D. W. Bromley.....	563,650	July 7	691	163	76	130
Sash-holder.....	L. W. Baldwin.....	556,397	Mar. 17	1665	389	74	1473
Sash-holder.....	C. Hadden.....	557,803	Apr. 7	506	121	75	96
Sash-holder.....	N. Harris.....	559,999	May 12	1194	265	75	922
Sash-holder.....	J. T. Hart.....	554,778	Feb. 18	1728	405	74	860
Sash-holder.....	E. E. Hull.....	560,356	May 19	1861	424	75	1094
Sash-holder.....	W. F. Johnston.....	564,694	July 28	2536	601	76	516
Sash-holder.....	O. Maher.....	556,858	Mar. 24	2457	579	74	1639
Sash-holder.....	F. S. McFarland.....	563,205	June 30	3790	908	75	2167
Sash-holder.....	O. D. Reisinger.....	563,983	July 14	1314	306	76	259
Sash-holder.....	A. N. Russell.....	556,477	Mar. 17	1813	421	74	1502
Sash-holder.....	J. Schwarz.....	554,317	Feb. 11	931	214	74	692
Sash holder and fastener.....	E. A. Worthen.....	564,813	July 28	2753	654	76	553
Sash holder and lifter.....	R. H. Wheeler.....	573,374	Dec. 15	2279	543	77	1747
Sash-holder for preventing rattling of windows.....	C. H. and C. H. Beer, Jr.....	572,047	Nov. 24	2867	674	77	1234
Sash-holding apparatus. Window.....	W. Hall.....	557,268	Mar. 31	3194	767	74	1796
Sash-lift.....	S. T. Beer.....	564,499	July 21	2198	519	76	436
Sash lift and lock. Bedside.....	D. Fletcher.....	573,267	Dec. 15	2073	497	77	1709
Sash-lifter.....	P. M. Krickl.....	561,896	June 9	1491	{ 359 360 }	75	1676
Sash-lock.....	F. T. Frost.....	566,856	Sept. 1	203	47	76	1322
Sash-lock.....	S. Langmaid.....	553,287	Jan. 21	1466	352	74	302
Sash-lock.....	G. H. Lasar.....	554,633	Feb. 11	1484	347	74	796
Sash-lock.....	I. W. Lewis.....	559,587	May 5	400	96	75	761
Sash-lock.....	D. O. Livermore.....	570,670	Nov. 3	472	110	77	726

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Sash-lock	J. C. Meyer	558,972	Apr. 28	2563	620	75	532
Sash-lock	J. A. Newton	573,347	Dec. 15	2234	534	77	1738
Sash-lock	S. S. Nutting	555,017	Feb. 18	2152	513	74	938
Sash-lock	T. J. Sutton	568,992	Oct. 6	485	110	77	92
Sash-lock	A. A. Veer	562,104	June 16	1855	450	75	1763
Sash-lock	F. W. Woychinske, A. Paponschek, and L. Lennig.	564,814	July 28	2754	654	76	554
Sash-lock and antirattling device. Combined	E. F. Stearns	566,877	Sept. 1	235	54	76	1327
Sash-lock and operator	M. F. Robinson	567,255	Sept. 8	911	218	76	1464
Sash-lock. Window	E. E. Dalton	570,007	Oct. 27	2264	538	77	466
Sash-lock. Window	P. C. Ewart	553,518	Jan. 28	1849	439	74	390
Sash-lock. Window	H. M. Hastings	566,171	Aug. 18	2216	540	76	1070
Sash-lock. Window	P. S. Riddelle	552,777	Jan. 7	509	125	74	96
Sash locking and operating device	A. L. Schiller	561,820	June 9	1361	326	75	1651
Sash or door holder	J. C. Duncan and L. H. Smith	567,458	Sept. 8	1284	311	76	1531
Sash. Removable window	W. H. Grove	566,168	Aug. 18	2212	539	76	1069
Sash. Removable window	J. Lehnbeuter	553,413	Jan. 21	1671	398	74	341
Sash. Removable window	J. Lehnbeuter	561,800	June 9	1324	317	75	1645
Sash. Reversible window	F. Cramblitt	573,261	Dec. 15	2062	494	77	1708
Sash. Revolving window	A. L. Bolles	554,231	Feb. 11	766	175	74	661
Sash. Revolving window	P. S. Riddelle	552,778	Jan. 7	513	125	74	96
Sash-support grip	J. H. Shull	568,708	Sept. 29	3493	835	76	1990
Sash support. Window	L. M. Bolles	571,551	Nov. 17	1994	474	77	1050
Sash support. Window	G. Johnstone	579,022	Oct. 27	22-5	547	77	470
Sash. Swinging	H. B. Anderson	554,853	Feb. 18	1862	437	74	886
Sash-weight	W. C. Walda	571,813	Nov. 24	2452	584	77	1156
Sash-weights. Flask for making seamless.	A. S. Hodges	571,308	Nov. 10	1578	375	77	962
Sash. Window	C. R. Arnold and A. M. Lichtenberger.	562,789	June 30	3015	728	75	2015
Sash. Window	L. H. Broome	555,597	Mar. 3	192	44	74	1165
Sash. Window	P. E. Loree	564,933	July 28	2962	705	76	593
Sash. Window	C. C. Miller	554,075	Feb. 4	497	112	74	596
Sash. Window	N. E. Montgomery and J. A. Rice	565,774	Aug. 11	1515	369	76	918
Sash. Window	J. H. Shull	573,545	Dec. 22	2613	620	77	1826
Sash. Window	R. Sutherland	562,503	June 23	2507	608	75	1902
Sashes, partitions, &c. Guide for	L. L. Bishop	561,478	June 2	739	182	75	1510
Satchel. Lunch	J. T. Butts and L. C. Griggs	560,469	May 19	2063	471	75	1130
Saucepan-cover	G. Curley	568,970	Oct. 6	435	97	77	84
Saucepan-handle. Removable	E. J. Gilpin	569,635	Oct. 20	1609	379	77	335
Sausage-filling machine	R. W. Seideman	557,032	Mar. 24	2770	657	74	1698
Saw	E. C. Atkins	561,079	June 2	3	1	75	1367
Saw	H. C. Barbee	564,582	July 28	2260	556	76	483
Saw	J. Bowles	558,466	Apr. 14	1687	405	75	336
Saw	F. S. Bradley	573,812	Dec. 22	3089	734	77	1918
Saw	P. M. Dahl and R. E. Poindexter	561,094	June 2	31	8	75	1373
Saw	J. E. Emerson	561,098	June 2	37	10	75	1374
Saw	E. L. Knapp	571,376	Nov. 17	1691	402	77	995
Saw	A. Krieger	561,115	June 2	64	17	75	1379
Saw	J. Morrish	566,865	Sept. 1	218	51	76	1324
Saw	J. Oldham	571,200	Nov. 10	1392	325	77	925
Saw	D. Phillips	560,426	May 19	1992	455	75	1118
Saw	D. Phillips	571,955	Nov. 24	2717	643	77	1207
Saw	C. Prouty	565,298	Aug. 4	647	154	76	735
Saw	C. Prouty	565,390	Aug. 4	795	189	76	764
Saw	C. T. Redfield	559,309	Apr. 28	3198	773	75	652
Saw	E. Viewegh	555,983	Mar. 10	866	205	74	1312
Saw and saw-tooth. Circular diamond	H. C. Potter	570,564	Nov. 3	246	62	77	683
Saw attachment	R. H. Gowan	564,192	July 21	1696	397	76	345
Saw. Bit-tooth	E. Andrews	558,338	Apr. 14	1456	358	75	293
Saw-brace	S. Gaff	561,984	June 16	1639	399	75	1725
Saw. Buck	J. A. Williams	558,137	Apr. 14	1120	273	75	229
Saw. Circular	J. E. Fox	568,754	Oct. 6	74	17	77	17
Saw-clamp	A. T. Binkerd	571,742	Nov. 24	2331	557	77	1133
Saw-clamp	D. S. West and D. Johnson	573,737	Dec. 22	2975	704	77	1896
Saw-collars, saws, &c. Machine for grinding	F. Challoner	560,688	May 26	2494	572	75	1225
Saw. Crosscut	A. Harman	572,604	Dec. 8	910	220	77	1470
Saw. Crosscut	S. R. Lewis	563,669	July 7	733	173	76	137
Saw. Crosscut	R. E. Poindexter	553,071	Jan. 14	1068	260	74	214
Saw. Crosscut	F. Zigler	567,436	Sept. 8	1246	300	76	1524
Saw. Cylindrical	J. S. Pessenger	565,633	Aug. 11	1256	303	76	868
Saw. Drag	L. Johnson	571,446	Nov. 17	1802	430	77	1017
Saw. Drag	N. A. Reeves	555,884	Mar. 3	673	161	74	1254
Saw-dressing device	B. F. Marable	568,782	Oct. 6	123	29	77	25
Saw filing and setting machine	D. A. Fisher	562,383	June 23	2319	563	75	1866
Saw-filing apparatus	C. G. Mitchell	566,003	Aug. 18	1949	472	76	1021
Saw-filing machine	H. W. Bertram	560,464	May 19	2057	468	75	1128
Saw-filing machine	R. R. Coursen	567,296	Sept. 8	996	237	76	1479
Saw-filing machine	G. R. Huff and G. H. Vernon	553,584	Jan. 28	1975	468	74	414
Saw-filing machine	J. L. McDougall	553,254	Jan. 21	1392	339	74	290
Saw-filing machine	H. L. Morrell	570,732	Nov. 3	578	133	77	745
Saw-filing machine	T. L. Wallace and J. A. Reed	561,147	June 2	125	33	75	1390
Saw-filing machine	T. L. Wallace and R. Coyle	565,947	Aug. 18	1831	445	76	997
Saw-filing machine	T. L. Wallace and R. Coyle	565,948	Aug. 18	1837	446	76	998

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Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Saw-filing machine. Band.....	F. M. Smiley.....	565,575	Aug. 11	1156	278	76	250
Saw for sawing meats, &c. Swinging.....	J. Marshall.....	555,649	Mar. 3	292	68	74	1182
Saw-frame.....	M. E. Hanover.....	562,464	June 23	2453	595	75	1892
Saw-frame.....	A. G. Snell.....	561,353	June 2	516	130	75	1469
Saw. Grooving.....	C. Baar.....	552,573	Jan. 7	117	33	74	24
Saw-guide.....	A. Marks.....	561,411	June 2	614	153	75	1487
Saw-guide.....	E. C. Mershon.....	567,319	Sept. 8	1052	251	76	1489
Saw-guide.....	W. Peake and E. C. Inderlied.....	562,237	June 16	2067	501	75	1204
Saw guide. Band.....	J. A. Martin.....	567,859	Sept. 15	1959	{ 469 470 }	76	1675
Saw guide. Band.....	W. McBeth.....	573,028	Dec. 15	1647	396	77	1631
Saw-gumming tool.....	C. J. Burnett.....	562,705	June 23	2857	694	75	1967
Saw. Hack.....	G. T. Culver.....	558,781	Apr. 21	2225	536	75	451
Saw. Hand.....	G. Meyer.....	573,893	Dec. 29	3247	773	77	1961
Saw. Hand.....	E. F. Walter.....	563,521	July 7	484	114	76	92
Saw-handle.....	C. T. Ammon.....	562,767	June 30	3013	728	75	2015
Saw-handle.....	H. M. Singer.....	563,512	July 7	471	111	76	90
Saw-handle.....	C. H. Stroud.....	563,090	June 30	3585	861	75	2130
Saw-hanging.....	J. Heyn.....	570,094	Oct. 27	2425	575	77	498
Saw. Inserted-tooth.....	A. Krieger.....	555,518	Mar. 3	56	12	74	1141
Saw-jointer.....	A. R. Landers.....	563,286	July 7	88	22	76	19
Saw locking device.....	D. C. Landon.....	559,780	May 5	743	179	75	822
Saw machine. Drag.....	E. A. Smith.....	553,545	Jan. 28	1903	{ 450 451 }	74	400
Sawmill.....	M. E. Davidson.....	561,569	June 9	914	219	75	1567
Sawmill.....	W. H. English.....	557,391	Mar. 31	3407	{ 818 819 }	74	1839
Saw mill. Band.....	C. H. Roberts.....	567,282	Sept. 8	972	{ 230 231 }	76	1475
Saw mill. Band.....	N. Shaw.....	562,042	June 16	1743	422	75	1744
Sawmill-carriage.....	G. H. Patullo.....	568,272	Sept. 22	2700	647	76	1826
Sawmill-carriage.....	W. M. Wilkin.....	559,428	May 5	146	31	75	709
Sawmill-carriage offset.....	H. Gawley.....	563,476	July 7	409	95	76	79
Sawmill-carriage offsetting mechanism.....	P. J. Buck.....	561,864	June 9	1437	347	75	1666
Sawmill-carriage offsetting device.....	W. O. Carlson.....	564,866	July 28	2841	620	76	570
Sawmill-carriage piston-rod connection.....	H. G. Dittbenner.....	563,265	July 7	54	13, 14	76	12
Sawmill-carriages. Steam-offset for.....	G. W. Prescott.....	569,671	Oct. 20	1665	394	77	345
Sawmill-dog.....	A. M. Beard.....	562,700	June 23	2845	691	75	1965
Sawmill-dog.....	C. Eleuder.....	554,586	Feb. 11	1368	326	74	780
Sawmill-dog.....	H. Gawley.....	562,461	June 23	2449	594	75	1891
Sawmill-dog.....	W. M. Wilkin.....	559,427	May 5	145	31	75	709
Saw mill. Gang.....	D. Crane.....	562,217	June 16	2035	{ 492 493 }	75	1798
Saw mill. Gang.....	W. M. Wilkin.....	572,922	Dec. 8	1461	351	77	1578
Sawmill head-block.....	J. H. Matthews.....	553,351	Jan. 21	1569	{ 374 375 }	74	321
Sawmill log-turner.....	W. M. Wilkin.....	559,429	May 5	147	32	75	709
Sawmill. Portable.....	H. A. Sager.....	566,624	Aug. 25	3002	733	76	1236
Sawmill set-works.....	C. H. Knight.....	561,592	June 9	954	228	75	1576
Sawmill set-works.....	H. McDermott.....	564,530	July 21	2249	{ 527 528 }	76	445
Sawmill-trimmer.....	W. M. Wilkin.....	559,430	May 5	149	32	75	710
Saw. Reciprocating.....	H. French.....	566,511	Aug. 25	2847	692	76	1204
Saw-set.....	F. W. Brown.....	552,814	Jan. 7	598	145	74	112
Saw-set.....	J. B. Burr.....	565,722	Aug. 11	1425	347	76	901
Saw-set.....	F. W. Denhard.....	568,084	Sept. 22	2386	575	76	1766
Saw-set.....	A. E. Grodem and T. Christensen.....	562,525	June 23	2545	619	75	1909
Saw-set.....	H. U. Kistner.....	555,957	Mar. 10	815	195	74	1302
Saw-set.....	J. A. Morrell.....	564,634	July 28	2451	577	76	500
Saw-set.....	J. W. Packwood.....	554,721	Feb. 18	1624	383	74	841
Saw-set.....	W. H. Smith.....	572,835	Dec. 8	1316	316	77	1548
Saw-set and tooth-holder.....	I. H. Spelman.....	557,908	Apr. 7	674	161	75	128
Saw-setting apparatus.....	C. E. and J. W. Batcock.....	566,290	Aug. 25	2405	{ 590 591 }	76	1123
Saw-setting machine.....	J. F. Bredin.....	557,959	Apr. 7	772	184	75	145
Saw-setting machine.....	R. R. Coursen.....	569,545	Oct. 13	1416	335	77	284
Saw-sharpener.....	C. H. Douglas.....	555,567	Mar. 3	140	33	74	1156
Saw-sharpener.....	W. H. Myers.....	570,225	Oct. 27	2652	629	77	541
Saw sharpening and gumming machine.....	W. A. and T. B. Hulme.....	564,077	July 14	1486	{ 347 348 }	76	291
Saw-sharpening device.....	J. Burke.....	572,470	Dec. 1	669	158	77	1406
Saw-sharpening machine.....	S. H. Holley and S. V. Rawlings.....	540,929	Nov. 10	925	{ 214 215 216 }	77	839
Saw-sharpening machine.....	S. C. Rogers.....	564,394	July 21	2033	477	76	406
Saw stretcher and shears. Combined.....	O. B. Bolton.....	566,651	Aug. 25	3041	743	76	1244
Saw stretching and straightening machine. Band.....	H. R. Smith.....	565,640	Aug. 11	1265	305	76	870
Saw-sawage.....	C. Garver.....	562,521	June 23	2538	617	75	1908
Saw-sawage.....	B. La Fleur.....	553,004	Jan. 14	949	229	74	192
Saw-sawage.....	B. H. Thrall and A. E. Sutliff.....	559,230	Apr. 28	3074	742	75	629
Saw-sawaging machine.....	B. A. Shepley.....	561,349	June 2	509	128	75	1468
Saw-table.....	F. B. Stevens and P. E. Hoffman.....	565,940	Aug. 18	1824	443	76	995
Saw-table gage.....	F. Holmes.....	562,330	June 16	2221	541	75	1833
Saw-teeth. Side-dresser for.....	G. M. Brown.....	568,295	Sept. 22	2738	{ 657 658 }	76	1834
Saw-tool.....	R. Bennett.....	569,993	Oct. 27	2242	532	77	462
Saw-tooth.....	J. R. Luce.....	565,288	Aug. 4	632	150	76	732
Saw-tooth.....	R. Motznik.....	557,414	Mar. 31	3451	827	74	1847
Saw-tooth. Detachable.....	A. Krieger.....	555,517	Mar. 3	54	12	74	1140
Saw-tooth holder. Insertible.....	E. C. Atkins.....	561,080	June 2	5	1	75	1367
Saw-tooth-setting machine.....	A. M. Pineo.....	569,766	Oct. 20	1857	440	77	378
Saw-tooth-swaging device.....	S. H. Holley.....	555,005	Feb. 18	2129	506	74	935
Saw-toothing machine.....	R. R. Coursen.....	567,295	Sept. 8	995	237	76	1479
Saw. Wabbling.....	W. A. Bissell.....	563,123	June 30	3650	874	75	2141

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Saw. Weather-board.....	T. Smyth.....	571,889	Nov. 24	2593	{ 615 616	{ 77	1182
Saw wheels. Reciprocating scraper for band.....	R. W. Hale.....	571,876	Nov. 24	2566	608	77	1177
Saws. Apparatus for placing logs upon carriages of slabber gang.....	E. C. Hargrave.....	557,813	Apr. 7	519	125	75	98
Saws. Machine for making.....	G. P. Salisbury.....	555,620	Mar. 3	224	53, 54	74	1171
Saws. Swage for upsetting teeth of mill.....	J. H. and G. F. Steedman.....	568,004	Sept. 22	2217	535	76	1736
Sawing and mitering machine.....	B. G. Luther.....	553,009	Jan. 14	955	231	74	193
Sawing fellies, &c. Machine for.....	J. L. Cole.....	589,956	Oct. 20	2179	517	77	438
Sawing-machine.....	C. M. Hillebrand.....	558,073	Apr. 14	1021	249	75	209
Sawing-machine.....	C. M. Hillebrand.....	561,587	June 9	941	225	75	1573
Sawing-machine.....	J. H. Koehler.....	553,286	Jan. 21	1464	352	74	302
Sawing-machine.....	A. G. O'Neil.....	554,001	Feb. 4	364	79, 80	74	572
Sawing-machine attachment.....	A. Stevely.....	564,118	July 14	1562	367	76	307
Sawing-machine. Circular.....	C. E. Turnock.....	572,230	Dec. 1	242	58	77	1325
Sawing-machine. Concave band.....	T. W. Cain.....	563,654	July 7	695	164	76	131
Sawing-machine gage. Wood.....	J. Barnes.....	556,658	Mar. 17	2112	493	74	1557
Sawing machine. Log.....	M. A. Dees.....	555,037	Feb. 18	2186	521	74	944
Sawing machine. Log.....	J. H. Eastabrooks.....	562,717	June 23	2888	701	75	1973
Sawing-machine. Portable.....	J. H. Whitfield.....	564,297	July 21	1866	437	76	375
Sawing-machine. Slab.....	A. W. Goodell.....	559,524	May 5	295	70	75	739
Sawing-machine spring-bumper.....	G. H. Palms.....	562,093	June 16	1838	447	75	1760
Sawing machine. Veneer.....	J. Anthon.....	557,180	Mar. 31	3018	721	74	1768
Sawing machine. Wood.....	C. V. Barker.....	552,505	Jan. 7	7	2, 3	74	4
Scaffold.....	F. B. Gilbreth.....	554,024	Feb. 4	407	90	74	580
Scaffold.....	G. Lucas.....	561,263	June 2	313	79	75	1429
Scaffold.....	H. McLaughlin.....	555,260	Feb. 25	2594	609	74	1037
Scaffold-bracket.....	A. E. Jones.....	569,645	Oct. 20	1628	384	77	339
Scaffold-bracket.....	C. Morgan.....	565,293	Aug. 4	639	152	76	733
Scaffold. Builder's.....	J. E. Ennis.....	557,501	Mar. 31	3607	{ 864 865 866	{ 74	1876
Scaffolds. Double safety-clutch for supports for.....	H. Schubert.....	569,240	Oct. 13	905	217	77	189
Scale.....	C. F. Edminster.....	553,978	Feb. 4	318	70	74	563
Scale. Automatic computing.....	A. U. Smith. (Reissue).....	11,536	Apr. 28	3222	{ 792 793	{ 75	667
Scale-beam.....	W. H. Stewart.....	565,519	Aug. 11	1063	255	76	832
Scale-beam.....	G. C. Wooster.....	564,496	July 21	2195	{ 514 515	{ 76	435
Scale-beam. Yarn-numbering.....	A. Schaefer.....	566,872	Sept. 1	259	53	76	1326
Scale-beams. Knife-edge pivot for.....	F. H. Richards.....	559,748	May 5	670	160	75	809
Scale-beams. Knife-edge pivot for.....	F. H. Richards.....	559,750	May 5	678	161	75	811
Scale-bearing.....	C. A. Heyer.....	555,768	Mar. 3	469	112	74	1215
Scale. Computing.....	J. W. Culmer.....	552,826	Jan. 7	615	{ 149 150	{ 74	116
Scale. Computing.....	J. W. Culmer.....	553,336	Jan. 21	1544	369	74	316
Scale. Computing.....	C. M. Merrill.....	573,892	Dec. 29	3246	773	77	1960
Scale. Computing beam.....	H. E. Swift.....	552,676	Jan. 7	308	83	74	60
Scale for weighing gaseous substances.....	A. Custodis.....	569,177	Oct. 13	789	185	77	167
Scale measuring attachment.....	L. K. Sherman.....	564,342	July 21	1942	458	76	329
Scale or weighing beam.....	G. H. Froggatt.....	566,160	Aug. 18	2203	536	76	1067
Scale-pan.....	G. H. Chatillon.....	559,363	May 5	25	7	75	685
Scale-pan.....	G. S. Forscherner.....	571,157	Nov. 10	1330	310	77	914
Scale pan. Weighing.....	G. S. Forscherner.....	561,704	June 9	1154	275	75	1614
Scale. Platform.....	H. Schuster.....	565,122	Aug. 4	303	72	76	673
Scale. Pneumatic and spirit pressure.....	W. Raab.....	566,698	Aug. 25	3120	{ 762 763	{ 76	1257
Scale-poise.....	G. L. Prescott.....	555,881	Mar. 3	669	160	74	1253
Scale. Portable weighing.....	J. W. Hunter.....	570,553	Nov. 3	216	57	77	677
Scale. Price.....	H. Fisher.....	557,064	Mar. 24	2814	670	74	1707
Scale. Price.....	G. Flood.....	559,374	May 5	40	9	75	688
Scale. Price-computing.....	H. E. Swift.....	563,246	June 30	3851	923	75	2178
Scale. Recording.....	T. L. Richmond.....	562,324	June 16	2211	538	75	1831
Scale records and certificates. Apparatus for making.....	M. F. Horine.....	556,009	Mar. 10	917	219	74	1321
Scale-register. Automatic.....	F. R. Moser.....	557,858	Apr. 7	594	141	75	112
Scale. Self-registering.....	J. Campbell.....	558,630	Apr. 21	1962	{ 476 477	{ 75	403
Scale. Spring-balance.....	J. H. Swihart.....	559,110	Apr. 28	2803	{ 678 679	{ 75	580
Scale. Spring-balance weighing.....	E. N. Gilfillan.....	561,309	June 2	432	107	75	1453
Scale support. Weighing.....	C. J. Lippold.....	567,106	Sept. 1	662	155	76	1408
Scale. Wagon.....	L. G. and A. L. Clawson.....	554,983	Feb. 18	2080	495	74	926
Scale. Weighing.....	J. G. J. Davis.....	556,308	Mar. 10	1503	349	74	1427
Scale. Weighing.....	F. Leisi.....	567,483	Sept. 8	1325	319	76	1539
Scale. Weighing.....	W. G. Lenker.....	573,015	Dec. 15	1629	391	77	1627
Scale. Weighing.....	C. J. Lippold.....	567,107	Sept. 1	664	155	76	1408
Scale. Weighing.....	A. Rebelski.....	555,661	Mar. 3	311	73	74	1186
Scale. Weighing.....	J. H. Stephens.....	573,367	Dec. 15	2267	541	77	1745
Scales. Count-indicator for live-stock.....	E. B. Jackson.....	563,772	July 14	910	217	76	186
Scales. Weighing and computing.....	T. A. Killman and H. A. Bratten.....	565,756	Aug. 11	1485	363	76	912
Scarf-pin.....	H. V. Ashby.....	556,080	Mar. 10	1059	253	74	1345
Scarfing-machine.....	J. C. Killam.....	566,187	Aug. 18	2247	{ 549 550	{ 76	1076
Scenic effects. Apparatus for producing.....	A. L. Tucker.....	563,334	July 7	178	40	76	36
Scenic-theater apparatus for producing cloud effects.....	A. J. Oehring and A. L. Tucker.....	563,303	July 7	118	28	76	25
Scenic-theater apparatus for producing moon effects.....	A. J. Oehring and A. L. Tucker.....	563,302	July 7	116	28	76	24
Scenic-theater stage.....	W. R. Patterson.....	563,306	July 7	123	30	76	26
Scholar's companion.....	E. Guehna.....	567,342	Sept. 8	1091	262	76	1496
School seat and desk.....	A. D. Linn.....	567,105	Sept. 1	661	154	76	1407
Scissors attachment.....	M. F. Grabar.....	554,599	Feb. 11	1412	331	74	784
Scissors-holder.....	A. D. Polsgrove.....	566,277	Aug. 18	2378	582	76	1101
Scissors or shears.....	J. G. Bestgen.....	570,658	Nov. 3	452	106	77	723
Scissors or shears.....	G. P. Johnson.....	558,494	Apr. 21	1742	422	75	362

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Scissors or shears	W. Scheerer	556,440	Mar. 17	1755	408	74	1491
Scissors or shears	J. F. Shultz	560,237	May 19	1649	375	75	1053
Scissors or shears. Combination-lock for	T. H. Bradish	568,184	Sept. 22	2560	616	76	1799
Scoop or bucket. Coal	C. P. Dole	556,310	Mar. 10	1506	{ 349 350 }	74	1425
Scoop-shovel	D. A. Daly	554,989	Feb. 18	2096	499	74	929
Scoop. Weighing	C. A. Johnson	570,434	Oct. 27	3082	731	77	620
Scoring-machines. Adjustable cutter for	C. W. Hobbs and W. W. Johnston	566,758	Sept. 1	46	12	76	1288
Scoring-machines. Mechanism for operating registers for	H. O. and S. Ertel	556,261	Mar. 10	1392	327	74	1408
Scotograph or writing-machine for use of the blind ..	T. J. Bennett	553,504	Jan. 28	1823	433	74	385
Scourer:							
See Grain-scourer.							
Scourer and polisher	J. N. Wheeler	555,629	Mar. 3	250	58	74	1176
Scouring or buffing wheel	A. C. Winn	555,719	Mar. 3	396	92	74	1201
Scraper	G. E. Richardson	569,877	Oct. 20	2044	487	77	412
Scraper and carrier. Road	J. A. Taylor	552,936	Jan. 14	843	203	74	171
Scraper and carrier. Road	J. A. Taylor	555,270	Feb. 25	2610	612	74	1040
Scraper and carrier. Road	J. A. Taylor	570,885	Nov. 3	852	199	77	799
Scraper and grader	S. Dombrowsky	559,936	May 12	1080	240	75	898
Scraper and leveler. Combined	G. N. Folsom	563,760	July 14	891	213	76	183
Scraper dumping device. Earth	S. M. Thayer	571,959	Nov. 24	2724	644	77	1908
Scraper. Road	H. M. Weaver	553,881	Feb. 4	130	{ 25, 26 789 }	74	530
Scraper. Wheeled	W. Ackerman and A. A. Hasselquist	568,595	Sept. 29	3289	{ 790 791 }	76	1949
Scraper. Wheeled	B. F. Johnson	557,330	Mar. 31	3303	792	74	1817
Scraper. Wheeled earth	J. W. Hobson	570,401	Oct. 27	3016	{ 711 715 }	77	608
Scraping-tool	J. A. Traut	553,879	Feb. 4	126	25	74	529
Screen:							
See Coal-screen. Reflecting-screen.							
Cotton-gin screen. Revolving screen.							
Draft-screen. Shaker-screen.							
Extension-screen. Shaking-screen.							
Filter-screen. Sifting-screen.							
Fly-screen. Trap-screen.							
Gas-burner screen. Vehicle-screen.							
Molder's screen. Vehicle wind-screen.							
Multicolored screen. Window-screen.							
Percussion-screen. Window or door screen.							
Screen	G. W. Cross	572,697	Dec. 8	1074	261	77	1503
Screen	G. W. Cross	572,966	Dec. 15	1554	372	77	1612
Screen	G. D. Henry	554,122	Feb. 4	597	131	74	613
Screen and separator for coal, &c	C. W. Parsons	566,793	Sept. 1	96	24	76	1298
Screen for sand, &c	J. Norwood	571,575	Nov. 17	2029	483	77	1057
Screw-blanks. Cutting-off die for machines for making	C. D. Rogers	563,885	July 14	1136	266	76	228
Screw cover for shafting. Set	C. P. Anderson	573,751	Dec. 22	2994	709	77	1900
Screw-cutting die	J. Hartness	565,746	Aug. 11	1465	358	76	908
Screw-cutting die	L. S. Scott	563,810	July 14	978	233	76	199
Screw-cutting die	A. J. Smart	555,405	Feb. 25	2848	672	74	1085
Screw-cutting die-head	W. J. Smith	572,934	Dec. 8	1483	356	77	1582
Screw-cutting machine	C. W. Bloemker	558,713	Apr. 21	2107	509	75	430
Screw-cutting machine	H. P. Eilers	558,368	Apr. 14	1504	369	75	302
Screw-cutting machine	C. E. Roberts	552,969	Jan. 14	895	{ 217 218 }	74	181
Screw-cutting tool	L. Lemieux	555,869	Mar. 3	643	154	74	1243
Screw-driver	T. J. and J. J. Edwards	568,341	Sept. 29	2825	681	76	1865
Screw-driver	H. F. Henry	572,800	Dec. 8	1260	304	77	1536
Screw-driver	M. H. Schay	568,460	Sept. 29	3022	726	76	1902
Screw-driver blades. Die for making	C. F. Sullivan	562,934	June 30	3295	795	75	2071
Screw-driver. Electrician's	J. Reece	553,965	Feb. 4	297	66	74	559
Screw-driving machines. Screw-severing attachment for	T. Burchill	569,744	Oct. 20	1821	432	77	371
Screw elevator	N. P. Otis and R. C. Smith	570,329	Oct. 27	2885	685	77	563
Screw-fastener	J. Boeddinghaus	556,082	Mar. 10	1062	253	74	1346
Screw fender. Set	G. C. Hinman	564,197	July 21	1703	398	76	346
Screw holder and driver	W. G. Staples	565,808	Aug. 11	1568	382	76	927
Screw-holding device	J. H. Knapp	573,331	Dec. 15	2206	527	77	1733
Screw-jack	A. H. Moyes	563,608	July 7	631	147	76	118
Screw-jack	A. H. Moyes	573,684	Dec. 22	2884	681	77	1879
Screw. Jack	J. G. Rieff and P. Kindlen	560,933	May 26	2935	674	75	1309
Screw-machine	E. E. Claussen	561,697	June 9	1129	{ 269 270 271 }	75	1609
Screw-machine	C. W., A., and J. Mettler	561,415	June 2	619	{ 154 155 156 }	75	1488
Screw-machine	C. E. Roberts	552,548	Jan. 7	76	21	74	17
Screw machine. Metal	F. G. Kretschmer	563,484	Sept. 29	3055	{ 735 736 737 }	76	1907
Screw-machine. Multiple	G. G. Prentice	574,162	Dec. 29	3745	{ 894 895 896 }	77	2051
Screw-machine. Multiple	G. G. Prentice	574,163	Dec. 29	3751	{ 895 896 897 }	77	2052
Screw-plate	C. Poirot	567,408	Sept. 8	1203	288	76	1517
Screw-point-swaging mechanism	S. Zolot	568,584	Sept. 29	3287	780	76	1949
Screw-thread cutter	O. Johnson and O. Hoyer	556,190	Mar. 10	1263	295	74	1382
Screw-threads. Automatically-opening die for cutting	H. B. Robinson	569,769	Oct. 20	1862	441	77	373
Screw. Worm	J. M. Rauhoff	560,281	May 19	1732	394	75	1072
Screws, &c. Machine for making	G. E. Witherell	563,994	July 14	1329	310	76	262
Screws, nipples, &c. Machine for making	J. B. Clyne	554,812	Feb. 18	1778	419	74	870

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Screws, nipples, &c. Machine for making	J. B. Clyne	554,814	Feb. 18	1784	{ 420 421 }	74	871
Scrubber	J. S. Dunham	562,072	June 16	1809	436	75	1754
Scrubbing-machine	J. Cowgill	558,934	Apr. 28	2494	606	75	519
Scrubbing-machine	J. S. Hitchcock	567,944	Sept. 15	2098	505	76	1701
Scrubbing-machine	J. S. Hitchcock	574,355	Dec. 29	4126	{ 979 980 }	77	2120
Scuttle-hole protector	A. Ganzenmüller	569,867	Oct. 20	2018	481	77	408
Seythe	C. Fredrickson	553,731	Jan. 28	2328	528	74	459
Seal	E. J. Brooks	564,467	July 21	2151	504	76	427
Seal	E. J. Brooks	573,758	Dec. 22	3002	711	77	1901
Seal	J. E. Gogle	570,126	Oct. 27	2476	586	77	507
Seal	Z. D. Gray	564,067	July 14	1465	344	76	288
Seal	J. E. Williams	552,566	Jan. 7	109	30	74	22
Seal	F. W. Wood	568,011	Sept. 22	2225	537	76	1737
Seal	A. T. Zetterlund	571,633	Nov. 17	2129	511	77	1076
Seal. Bottle	J. H. Bullard	568,016	Sept. 22	2235	539	76	1739
Seal. Bottle	J. H. Bullard	572,330	Dec. 1	434	102	77	1362
Seal. Bottle	W. D. Eitel	559,520	May 5	290	69	75	738
Seal. Bottle	L. C. Lane	571,903	Nov. 24	2628	623	77	1188
Seal. Car	H. L. Burrill	557,964	Apr. 7	785	187	75	148
Seal. Car	L. J. Genett	558,554	Apr. 21	1829	445	75	380
Seal. Car	W. T. Gilbert	573,145	Dec. 15	1866	449	77	1672
Seal. Car	J. E. Gogle	570,127	Oct. 27	2477	586	77	507
Seal. Car	H. M. Grover	539,328	Apr. 28	3245	783	75	660
Seal. Car	A. J. Shipley and T. R. Hyde, Jr	556,029	Mar. 10	954	227	74	1327
Seal. Car	J. H. Swadling and H. H. Kelley	560,176	May 12	1524	344	75	983
Seal. Car	F. M. Converse	564,327	July 21	1916	452	76	384
Seal for envelops. Safety.	S. H. Dickerson and F. S. Gilbert	552,990	Jan. 14	929	225	74	188
Seal for joining wires or rods	N. C. Patterson	561,812	June 9	1346	321	75	1649
Seal for vessels containing liquids.	D. Comfort	570,907	Nov. 10	890	207	77	833
Seal-lock	W. K. Edgar and W. L. Sebring	563,916	July 14	1189	280	76	237
Seal-lock	T. Fui ong	558,941	Apr. 28	2508	609	75	521
Seal-lock	W. P. Huntley, Jr	571,230	Nov. 10	1443	337	77	935
Seal-lock	M. E. Kanaly	558,181	Apr. 14	1192	291	75	243
Seal-lock	B. S. Robertson	564,105	July 14	1537	361	76	302
Seal-lock	J. Schirra	570,061	Oct. 27	2360	561	77	485
Seal-lock	W. S. Schroeder	561,347	June 2	507	127	75	1467
Seal-lock	B. H. Tyson	555,412	Feb. 25	2858	674	74	1088
Seal-lock	E. B. Weigle	560,954	May 26	2966	681	75	1315
Seal. Metallic bottle	J. H. Bullard	569,854	Oct. 20	2001	477	77	405
Seal. Metallic envelop	H. R. Denis and C. Bramberg	564,781	July 28	2701	642	76	545
Seal-press	E. J. Brooks	569,742	Oct. 20	1809	429	77	370
Seal-press	A. J. Park	553,132	Jan. 14	1170	284	74	335
Seals. Numbering-stamp for car	W. K. Edgar and W. L. Sebring	560,349	May 19	1854	422	75	1092
Sealer. Envelop	J. H. Fearis	571,873	Nov. 24	2562	607	77	1176
Sealer. Jar	S. B. Ragatz	562,418	June 23	2364	577	75	1875
Sealing device. Bottle	R. Brass	552,742	Jan. 7	437	110	74	83
Sealing device. Bottle	J. H. Bullard	572,328	Dec. 1	431	101	77	1361
Sealing device. Bottle	A. M. Jowart	571,262	Nov. 10	1499	353	77	945
Sealing device. Bottle	J. S. Detrick	572,338	Dec. 1	442	104	77	1363
Sealing device. Bottle	L. Kalling	561,792	June 9	1315	315	75	1643
Sealing jars, &c. Device for	A. Schiller	553,543	Jan. 28	1901	450	74	400
Sealing machine. Bottle	R. Brass	563,552	July 7	538	124	76	102
Sealing machines. Feeding mechanism for bottle	W. Lipphardt and J. Blumenberg	553,757	Jan. 28	2267	537	74	468
Sealing machines. Magazine-feeder for bottle	W. Lipphardt and J. Blumenberg	553,758	Jan. 28	2270	{ 537 538 }	74	468
Sealing metal boxes. Machine for hermetically	J. Gersant and A. G. Buttifant	567,384	Sept. 8	1166	279	76	1508
Sealing preserving-jars. Device for	G. Fuert	561,783	June 9	1300	312	75	1641
Seam for sewed articles	W. P. Gammons, Jr	555,478	Feb. 25	2992	712	74	1112
Seam for sheet-metal articles	G. F. Bauman	566,647	Aug. 25	3033	742	76	1242
Seam-ribbing tool. Rotary	E. F. Maxwell	561,017	May 26	3059	704	75	1333
Seam-trimming mechanism	G. H. Dimond and W. F. Dial	568,996	Oct. 6	308	71	77	59
Seam. Welded	F. W. Merrick	555,255	Feb. 25	2525	606	74	1036
Seaming mechanism. Can	J. A. Steward	568,885	Oct. 6	293	67	77	56
Seaming-machine feed mechanism. Attachment for	H. Schaake	566,097	Aug. 18	2096	511	76	1048
Seaming machine. Sheet-metal	J. P. Luckett	558,735	Apr. 21	2144	{ 516 517 }	75	437
Seaming sheet-metal vessels	J. A. Steward	570,147	Oct. 27	2511	{ 595 596 }	77	514
Search-light	A. E. Colgate	573,962	Dec. 29	3381	809	77	1985
Seat:							
See Adjustable seat.	Removable seat.						
Bicycle-seat.	Reversible seat.						
Cane-seat.	School-seat.						
Counter-seat.	Spring-seat.						
Extension-seat.	Vehicle spring-seat.						
Seat	J. B. Goodwin	569,153	Oct. 6	755	176	77	143
Seat	J. S. Johnston	564,380	July 21	2006	471	76	400
Seat cushion and back	H. S. Hale	567,470	Sept. 8	1300	315	76	1534
Seat for agricultural machines, &c	L. Nelson	560,228	May 19	1631	371	75	1054
Seat or cushion	J. T. Cowley	569,784	Oct. 20	1888	448	77	383
Seat or cushion	W. Vogler	562,940	June 30	3305	797	75	2072
Secondary battery	A. E. W. Boucher	553,831	Feb. 4	20	6	74	508
Secondary battery	R. J. Gülicher	562,396	June 23	2334	569	75	1869
Secondary battery	F. King	568,447	Sept. 29	2997	721	76	1897
Secondary battery	P. F. Ribbe	553,596	Jan. 28	1993	472	74	416
Secondary battery	M. Sussmann	556,782	Mar. 24	2340	551	74	1616
Secretary and desk. Combination	A. M. Bolinger	566,735	Sept. 1	6	2	76	1282
Sectional boiler	J. H. Bacon	552,861	Jan. 7	673	164	74	127
Sectional boiler	J. J. Cain	561,257	June 2	301	77	75	1426
Sectional boiler	F. Grote	572,005	Nov. 24	2798	{ 659 660 }	77	1221
Sectional boiler	H. M. Hoffman	568,198	Sept. 22	2578	620	76	1802

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.'g	Vol.	Page.
Sectional case.....	P. C. Van Dolah.....	564,461	July 21	2145	501	76	425
Sediment or sand trap.....	G. Ipsen.....	552,877	Jan. 7	718	175	74	134
Seed and fertilizer distributor.....	G. L. Armbrister.....	553,200	Jan. 14	1299	314	74	258
Seed and fertilizer distributor.....	A. L. Griffith.....	556,671	Mar. 17	2131	497	74	1560
Seed and fertilizer distributor. Combined.....	T. R. Crane.....	555,897	Mar. 3	702	169	74	1260
Seed-bag.....	C. N. Choate.....	554,412	Feb. 11	1099	256	74	724
Seed-cleaning machine. Cotton.....	J. J. Faulkner.....	558,680	Apr. 21	2057	496	75	419
Seed-cleaning mill. Flax.....	O. Johansen.....	571,767	Nov. 24	2377	567 568	77	1142
Seed delinter. Cotton.....	R. R. Boyd.....	563,647	July 7	686	161 162	76	129
Seed delinter. Cotton.....	O. T. Bugg.....	556,574	Mar. 17	1985	463 464	74	1533
Seed delinter. Cotton.....	J. J. Faulkner.....	555,040	Feb. 18	2203	525 526	74	947
Seed delinter. Cotton.....	J. J. Faulkner.....	555,309	Feb. 25	2687	629	74	1055
Seed delinter. Cotton.....	J. J. Faulkner.....	555,310	Feb. 25	2688	629	74	1056
Seed delinter. Cotton.....	J. J. Faulkner.....	555,311	Feb. 25	2690	629	74	1056
Seed delinter. Cotton.....	J. J. Faulkner.....	555,312	Feb. 25	2692	630	74	1056
Seed delinter. Cotton.....	J. J. Faulkner.....	556,664	Mar. 17	2120	495	74	1558
Seed delinter. Cotton.....	J. J. Faulkner.....	556,665	Mar. 17	2122	495	74	1558
Seed delinter. Cotton.....	J. J. Faulkner.....	557,789	Apr. 7	480	115	75	91
Seed delinter. Cotton.....	J. J. Faulkner.....	557,790	Apr. 7	482	115	75	92
Seed delinter. Cotton.....	J. J. Faulkner.....	559,056	Apr. 28	2704	658	75	558
Seed delinter. Cotton.....	J. J. Faulkner.....	560,263	May 19	1699	387	75	1066
Seed delinter. Cotton.....	J. J. Faulkner.....	561,660	June 9	1063	256 257	75	1596
Seed delinter. Cotton.....	J. J. Faulkner.....	562,517	June 23	2529	615 616	75	1906
Seed delinter. Cotton.....	J. M. Pollard.....	565,793	Aug. 11	1543	376	76	923
Seed-delinting machine. Cotton.....	F. W. Cross.....	555,565	Mar. 3	136	31, 32	74	1155
Seed-drill.....	H. Schimpff.....	558,526	Apr. 21	1792	435 436	75	372
Seed-drill furrow-opener.....	J. H. Smith and E. P. Wagon.....	566,875	Sept. 1	232	54	76	1326
Seed from lint or fiber. Machine for separating.....	W. Henderson.....	560,499	May 19	2110	482 483	75	1139
Seed. Means for treating.....	B. Reeve.....	571,017	Nov. 10	1076	251	77	867
Seed or grain. Apparatus for gathering.....	R. W. Shely.....	566,099	Aug. 18	2102	512 513	76	1048
Seed-rack.....	J. Sproule.....	553,571	Jan. 28	1950	460	74	409
Seeder.....	E. K. Clover.....	571,896	Nov. 24	2616	620	77	1186
Seeder.....	J. Custer.....	567,780	Sept. 15	1818	436	76	1648
Seeder.....	J. M. Poore.....	567,359	Sept. 8	1123	270	76	1501
Seeding-machine.....	W. J. Dealtry.....	553,705	Jan. 28	2177	515	74	450
Seeding-machine.....	H. E. Dodson.....	558,363	Apr. 14	1496	367 368	75	300
Seeding-machine.....	F. R. Packham.....	570,265	Oct. 27	2732	649 650	77	556
Seeding-machine.....	C. E. Patric.....	554,302	Feb. 11	906	209	74	688
Seeding-machine furrow-opener.....	F. R. Packham.....	557,868	Apr. 7	609	145	75	115
Seine-float.....	H. W. Ryall and R. J. Chatham.....	557,611	Apr. 7	146	38	75	29
Selecting device.....	A. Le Blanc.....	566,916	Sept. 1	312	73	76	1342
Selective signal.....	C. E. Scribner.....	574,223	Dec. 29	3904	928	77	2078
Selective system.....	A. L. Merrick and B. Brooks.....	566,784	Sept. 1	80, 21	21	76	1295
Self-igniting burner.....	A. Rammoser.....	572,093	Nov. 24	2998	703	77	1257
Self-locking bolt.....	J. Killinger.....	554,494	Feb. 11	1237	289	74	750
Self-lubricating wheel.....	H. B. Dierdorff.....	559,573	May 5	378	92	75	756
Self-waiting table.....	W. D. Via and M. V. Stedman.....	558,128	Apr. 14	1105	270	75	227
Salvage guide. Web.....	E. Stevens.....	568,884	Oct. 6	291	67	77	56
Salvage on fabrics. Machine for making.....	T. W. Bracher.....	567,779	Sept. 15	1816	436	76	1647
Salvage-protector or cloth-guide.....	T. Sullivan.....	553,045	Jan. 14	1011	247	74	204
Separable frame.....	E. A. Wilcox.....	562,108	June 16	1861	451	75	1764
Separating and concentrating apparatus.....	A. Sheddock.....	558,213	Apr. 14	1243	304	75	252
Separating-machine.....	R. J. Olivey.....	570,608	Nov. 3	321	79, 80	77	698
Separator:							
See Centrifugal separator.	Magneto-separator.						
Clay-separator.	Metal separator.						
Coal-separator.	Oil-separator.						
Cream-separator.	Oil and steam separator.						
Dust-separator.	Oil and water separator.						
Egg and packing separator.	Ore-separator.						
Gas, oil, and water separator.	Pneumatic separator.						
Gold-separator.	Potato-separator.						
Grain separator.	Rubber-separator.						
Grain and seed separator.	Smoke-separator.						
Liquid-separator.	Steam-separator.						
Magnetic separator.	Steam and oil separator.						
Separator.....	Steam and water separator.						
Separator.....	Yarn-separator.						
Separator.....	A. R. Anthony.....	556,078	Mar. 10	1057	252	74	1344
Separator.....	G. W. Cross.....	570,460	Nov. 3	34	8	77	644
Separator.....	H. L. Day.....	567,021	Sept. 1	507	120	76	1378
Separator.....	A. F. Gaiennie.....	567,894	Sept. 15	2008	482	76	1686
Separator.....	A. F. Gaiennie.....	567,895	Sept. 15	2009	482	76	1686
Separator.....	A. F. Gaiennie.....	570,790	Nov. 3	672	154	77	762
Separator.....	O. M. Morse.....	555,874	Mar. 3	654	156 157	74	1250
Separator.....	C. D. Sanderson.....	568,145	Sept. 22	2495	600	76	1787
Separator.....	A. Seneff.....	568,705	Sept. 29	3489	834	76	1989
Separator and amalgamator. Combined.....	L. S. Pierce.....	560,750	May 26	2587	596 597	75	1243
Separator and stacker.....	W. Huddle.....	559,174	Apr. 28	2955	714	75	607
Separator-leveling device.....	O. Swisher.....	564,544	July 21	2273	533	76	449

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Separator mechanism	W. E. Sharples	559,465	May 5	201	44	75	720
Separator mechanism	W. E. Sharples. (Reissue)	11,562	Aug. 11	1692	414	76	952
Sewage and ventilation of drains. Treatment of	F. B. Hill	555,006	Feb. 18	2130	{ 507 508 }	74	935
Sewage apparatus	A. S. Glover	559,522	May 5	292	69	75	739
Sewage. Apparatus for treating	O. E. Meyer	565,491	Aug. 11	1008	{ 243 244 }	76	822
Sewage or water. Apparatus for purifying	J. H. Curtis	564,049	July 14	1439	335	76	282
Sewage-raising apparatus	S. H. Adams	556,039	Mar. 10	976	234	74	1330
Sewage system	B. O. Tilden	552,677	Jan. 7	311	83.84	74	61
Sewer-gas trap	G. J. Dehn	564,475	July 21	2166	507	76	429
Sewer-inlet	G. A. Ensign	557,786	Apr. 7	476	114	75	90
Sewer-trap	J. Ellis	561,381	June 2	562	141	75	1479
Sewer-trap and flushing-gate	J. T. Titus	572,078	Nov. 24	2951	694	77	1250
Sewing knitted fabrics. Machine for	J. Benner	557,637	Apr. 7	198	50, 51	75	38
Sewing looped fabrics. Machine for	C. McNeil	556,585	Mar. 17	2005	469	74	1536
Sewing-machine	W. E. Bailey and R. D. Burns	573,382	Dec. 15	2290	{ 546 547 }	77	1749
Sewing-machine	W. F. Beardslee	556,710	Mar. 17	2187	511	74	1571
Sewing-machine	J. Bolton and A. Rontke	552,509	Jan. 7	12	4, 5	74	5
Sewing-machine	S. Borton	561,043	May 26	3103	{ 715 716 }	75	1341
Sewing-machine	H. H. Buffum	554,238	Feb. 11	792	182	74	666
Sewing-machine	H. H. Buffum	570,902	Nov. 10	879	205	77	830
Sewing-machine	O. M. Chamberlain	566,741	Sept. 1	15	4	76	1283
Sewing-machine	C. Dancel	567,888	Sept. 15	2001	480	76	1684
Sewing-machine	P. Diehl and M. Hemleb	568,338	Sept. 29	2820	{ 678 679 }	76	1864
Sewing-machine	J. Fletcher and C. Brown	571,653	Nov. 17	2156	{ 517 518 }	77	1081
Sewing-machine	A. B. Fowler and G. E. Warren	564,985	Aug. 4	45	10	76	625
Sewing-machine	C. Frederick and R. L. Plumley	573,969	Dec. 29	3400	{ 815 816 }	77	1988
Sewing-machine	Z. T. French	558,679	Apr. 21	2056	496	75	419
Sewing-machine	Z. T. French	561,386	June 2	573	143	75	1480
Sewing-machine	L. Goddu	556,501	Mar. 17	1865	{ 435 436 }	74	1511
Sewing-machine	N. and G. Goddu	572,538	Dec. 8	784	187	77	1442
Sewing-machine	J. F. Hardy	571,318	Nov. 10	1593	378	77	964
Sewing-machine	J. T. Hogan	570,478	Nov. 3	68	16, 17	77	651
Sewing-machine	T. J. Holton and F. Malsch	570,479	Nov. 3	73	17, 18	77	651
Sewing-machine	H. I. Illingworth	573,880	Dec. 29	3223	{ 767 768 }	77	1956
Sewing-machine	S. M. Jacoby	559,978	May 12	1153	{ 257 258 }	75	916
Sewing-machine	H. W. Johnson	564,379	July 21	2004	471	76	399
Sewing-machine	D. Jones	565,543	Aug. 11	1093	{ 263 264 }	76	839
Sewing-machine	T. A. Macaulay	567,603	Sept. 15	1523	{ 366 367 }	76	1590
Sewing-machine	W. A. Mack	559,493	May 5	247	56	75	730
Sewing-machine	R. M. Melhuish	568,624	Sept. 29	3338	{ 799 800 801 }	76	1959
Sewing-machine	L. A. Miller	572,557	Dec. 8	816	{ 195 196 }	77	1449
Sewing-machine	F. A. Mills	555,824	Mar. 3	558	{ 133 134 }	74	1232
Sewing-machine	F. A. Mills	563,903	July 14	1165	274	76	233
Sewing-machine	F. A. Mills	571,007	Nov. 10	1057	{ 246 247 }	77	864
Sewing-machine	H. Moore	554,392	Feb. 11	1051	244	74	715
Sewing-machine	E. F. Mower	556,101	Mar. 10	1094	260	74	1352
Sewing-machine	E. F. Mower	562,335	June 16	2229	542	75	1834
Sewing-machine	E. F. Mower	563,871	July 14	1103	260	76	222
Sewing-machine	M. C. Mullarky	569,652	Oct. 20	1635	386	77	340
Sewing-machine	E. Murphy	554,626	Feb. 11	1472	{ 344 345 }	74	794
Sewing-machine	L. Muther	559,786	May 5	750	180	75	824
Sewing-machine	H. F. Nason	567,000	Sept. 1	472	{ 109 110 }	76	1371
Sewing-machine	J. Pennington and J. Schott	558,459	Apr. 14	1677	404	75	334
Sewing-machine	F. H. Richards	558,662	Apr. 21	2019	488	75	413
Sewing-machine	F. H. Richards	558,663	Apr. 21	2023	488	75	414
Sewing-machine	A. Rontke	568,702	Sept. 29	3484	833	76	1988
Sewing-machine	T. R. Rossiter	566,538	Aug. 25	2888	{ 702 703 704 }	76	1214
Sewing-machine	W. D. Rundlett	570,960	Nov. 10	977	228	77	849
Sewing-machine	W. D. Rundlett	570,961	Nov. 10	980	228	77	849
Sewing-machine	W. D. Rundlett	570,962	Nov. 10	981	228	77	849
Sewing-machine	G. H. Scettrini and H. K. Bridger	571,053	Nov. 10	1130	{ 264 265 }	77	878
Sewing-machine	C. F. Skinner	559,413	May 5	117	25, 26	75	704
Sewing-machine	E. H. Smith	553,139	Jan. 14	1181	287	74	237
Sewing-machine	D. W. Stevenson	570,969	Nov. 10	990	230	77	851
Sewing-machine	E. J. Toof	570,722	Nov. 3	557	129	77	741
Sewing-machine	A. O. Towns	565,816	Aug. 11	1581	{ 385 386 }	76	930
Sewing-machine	L. W. Tracy	559,637	May 5	492	113	75	776
Sewing-machine	G. W. Weiss	552,559	Jan. 7	99	27	74	20
Sewing-machine	G. W. Weiss	552,942	Jan. 14	854	{ 206 207 }	74	174

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Sewing-machine.....	C. H. Willcox.....	572,040	Nov. 24	2854	672	77	1232
Sewing-machine.....	C. H. Willcox and C. Carleton.....	572,042	Nov. 24	2859	672	77	1233
Sewing-machine.....	V. Witte.....	569,441	Oct. 13	1242	292	77	251
Sewing-machine.....	R. G. Woodward.....	566,707	Aug. 25	3143	768	76	1260
Sewing-machine attachment.....	O. B. Olson.....	554,373	Feb. 11	1019	236	74	709
Sewing-machine attachment.....	P. Olson.....	567,652	Sept. 15	1612	347	76	1609
Sewing-machine attachment.....	F. and M. A. Post.....	561,178	June 2	193	47	75	1403
Sewing-machine attachment.....	J. W. Simons.....	569,773	Oct. 20	1870	443	77	360
Sewing-machine attachment.....	H. H. Stratton.....	565,705	Aug. 11	1383	337	76	894
Sewing-machine attachment.....	L. Wieser.....	562,873	June 30	3188	771	75	2043
Sewing-machine binding attachment.....	K. Buxbaum.....	570,121	Oct. 27	2469	584	77	506
Sewing-machine bobbin-case.....	H. A. Bates.....	568,107	Sept. 22	2427	583	76	1774
Sewing machine. Book.....	H. Brehmer.....	560,223	May 19	1620	365 366 367 368	75	1052
Sewing machine. Book.....	I. Nasch.....	558,832	Apr. 21	2308	561 562	75	466
Sewing-machine braid-feeding mechanism.....	G. W. Weiss.....	568,387	Sept. 29	2896	697	76	1879
Sewing machine. Broom.....	L. Pelton.....	572,615	Dec. 8	930	225 226	77	1474
Sewing machine. Button.....	H. L. Phelps.....	553,687	Jan. 28	2145	507 508	74	443
Sewing machine. Buttonhole.....	W. R. Abercrombie.....	565,951	Aug. 18	1844	448 449	76	999
Sewing machine. Buttonhole.....	A. G. Anderson.....	565,713	Aug. 11	1395	340 341	76	896
Sewing machine. Buttonhole.....	C. A. Dahl.....	566,893	Sept. 1	266	62	76	1333
Sewing machine. Buttonhole.....	J. Laird.....	562,003	June 16	1668	407	75	1730
Sewing machine. Buttonhole.....	W. Raeuchle.....	574,166	Dec. 29	3758	897	77	2034
Sewing machine. Buttonhole.....	G. N. Raymond.....	556,717	Mar. 17	2201	514	74	1574
Sewing-machine buttonhole attachment.....	W. M. Ammerman.....	558,920	Apr. 22	2476	602	75	515
Sewing-machine buttonhole mechanism.....	E. O. Bennett.....	553,639	Jan. 28	2062	487 488	74	429
Sewing-machine cabinet.....	D. W. Brown.....	561,087	June 2	17	4, 5	75	1370
Sewing-machine cabinet.....	T. Kundtz and R. Kosch.....	565,623	Aug. 11	1236	298	76	865
Sewing-machine cabinet.....	A. H. Troyke.....	560,380	May 19	1906	433 434	75	1102
Sewing-machine cabinet or table.....	N. A. Hull.....	553,490	Jan. 21	1800	428	74	364
Sewing machine. Carpet.....	H. Eschweiler.....	565,264	Aug. 4	599	142	76	725
Sewing-machine clamping device. Buttonhole.....	R. L. Plumley.....	567,723	Sept. 15	1720	413	76	1629
Sewing-machine compensating bearing.....	W. H. Strickler.....	565,521	Aug. 11	1666	256	76	833
Sewing-machine covers. Retaining device for.....	S. H. Wheeler.....	557,925	Apr. 7	707	170 171	75	134
Sewing-machine cutting device.....	U. Gütling.....	561,312	June 2	439	108	75	1455
Sewing-machine. Double-chain-stitch.....	A. Rontke.....	573,926	Dec. 29	3304	799 790	77	1972
Sewing-machine. Fair-stitch.....	E. F. Mower.....	556,100	Mar. 10	1091	260	74	1351
Sewing-machine fan attachment.....	J. T. Lee.....	573,012	Dec. 15	1626	390	77	1626
Sewing-machine fan attachment.....	B. E. Meyer.....	572,021	Nov. 24	2820	665	77	1225
Sewing-machine. Fancy-stitch.....	W. F. Jagielski.....	573,881	Dec. 29	3228	768 769	77	1957
Sewing-machine feed mechanism.....	W. J. Stewart.....	562,160	June 16	1947	472	75	1781
Sewing-machine feed mechanism.....	W. J. Stewart.....	562,161	June 16	1948	472 473	75	1781
Sewing-machine feed mechanism.....	C. H. Willcox.....	572,039	Nov. 24	2852	671 672	77	1231
Sewing-machine feed mechanism.....	C. H. Willcox and S. Borton.....	572,041	Nov. 24	2857	672	77	1232
Sewing-machine feeding mechanism.....	J. B. Dobyne.....	566,286	Aug. 18	2395	587	76	1104
Sewing-machine feeding mechanism.....	J. C. Keough.....	564,887	July 28	2874	688 689	76	577
Sewing-machine feeding mechanism.....	C. McNeil.....	559,734	May 5	639	154	75	804
Sewing-machine feeding mechanism.....	J. M. Merrow.....	572,682	Dec. 8	1043	252 253	77	1497
Sewing-machine folding guide.....	J. F. Foschimbaur.....	566,676	Aug. 25	3086	753	76	1251
Sewing-machine folding guide.....	L. Muther.....	559,785	May 5	749	140	75	823
Sewing-machine foot-rest.....	M. A. Volkenrath.....	562,559	June 23	2607	632	75	1919
Sewing-machine for finishing buttonhole-pieces.....	J. Reece.....	571,796	Nov. 24	2425	578	77	1152
Sewing-machine for lasting boots or shoes.....	W. S. Hanna.....	570,252	Oct. 27	2703	643	77	550
Sewing machine. Fur.....	S. M. Jacoby.....	562,538	June 23	2561	622 623	75	1912
Sewing machine. Glove and fur.....	J. F. Wilhelm.....	562,109	June 16	1862	451 452	75	1764
Sewing-machine grinding attachment.....	C. A. Baker.....	553,275	Jan. 21	1430	346 713	74	297
Sewing machine. Hat.....	W. P. Gammons, Jr.....	555,479	Feb. 25	2993	714 715	74	1112
Sewing-machine hemmer.....	R. S. Barnum.....	569,368	Oct. 13	1127	268	77	232
Sewing-machine lap-seam guide.....	F. W. Merrick.....	570,288	Oct. 27	2769	659	77	563
Sewing-machine. Lock-stitch.....	S. Borton.....	572,090	Nov. 24	2989	702 703	77	1255
Sewing-machine loop-retainer.....	L. Muther.....	556,715	Mar. 17	2199	514	74	1573
Sewing-machine motor.....	S. Rosenblum.....	564,535	July 21	2260	530	76	447
Sewing-machine needle.....	W. H. Hanna.....	568,946	Oct. 6	390	88	77	75
Sewing-machine needle.....	F. H. Richards.....	558,664	Apr. 21	2026	489	75	414
Sewing-machine needle-bar.....	A. L. Coombs.....	558,449	Apr. 14	1657	398	75	331
Sewing-machine needle-threader.....	C. H. Willcox.....	571,818	Nov. 24	2463	585	77	1158
Sewing-machine needle-throat.....	W. H. Hanna.....	573,327	Dec. 15	2198	526	77	1732
Sewing-machine. Overedge.....	H. A. Klemm.....	571,125	Nov. 10	1284	298	77	905
Sewing-machine. Overedge.....	H. A. Klemm.....	571,322	Nov. 10	1599	379 380	77	965
Sewing-machine. Overedge.....	E. J. Perdreaux.....	574,263	Dec. 29	3972	943 944	77	2091
Sewing-machine pad-stitching attachment.....	P. Diehl.....	564,598	July 28	2392	564	76	489

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sewing-machine pull-off device.....	S. Borton.....	572,048	Nov. 24	2867	674	77	1234
Sewing-machine pull-off device.....	M. Weiss.....	559,644	May 5	503	115	75	778
Sewing-machine quilting attachment.....	W. B. and I. A. Click.....	569,616	Oct. 20	1566	367	77	327
Sewing-machine quilting attachment.....	R. D. Moon, W. H. Spake, and J. H. Bain.....	554,829	Feb. 18	1813	425	74	878
Sewing-machine quilting-frame.....	W. E. Hutchison.....	566,320	Aug. 25	2467	605	76	1134
Sewing-machine rapping attachment.....	F. M. Batchelor.....	564,618	July 28	2761	657	76	555
Sewing-machine. Shoe.....	W. Carey.....	559,771	May 5	729	174	75	819
Sewing-machine. Shoe.....	A. B. Fowler and G. E. Warren.....	564,986	Aug. 4	46	11	76	828
Sewing-machine. Shoe.....	G. R. Peare.....	556,159	Mar. 10	1205	281	74	1372
Sewing-machine shuttle.....	W. H. Barnett.....	560,292	May 19	1746	397	75	1075
Sewing-machine shuttle.....	H. A. Bates.....	569,316	Oct. 13	1040	247	77	215
Sewing-machine shuttle.....	W. Brandt.....	557,547	Apr. 7	26	7	75	7
Sewing-machine shuttle.....	D. W. Brown.....	561,988	June 2	19	5	75	1371
Sewing-machine shuttle.....	H. T. Crosby.....	572,335	Dec. 1	439	103	77	1363
Sewing-machine shuttle.....	P. Diehl.....	573,864	Dec. 29	2985	723	75	1993
Sewing-machine shuttle.....	J. R. Randolph.....	562,774	June 23	2985	723	75	1993
Sewing-machine shuttle.....	S. W. Wardwell, Jr.....	563,824	July 14	1003	238	76	204
Sewing-machine shuttle-actuating mechanism.....	F. H. Richards.....	571,457	Nov. 17	1814	434	77	1019
Sewing-machine shuttle-driving mechanism.....	A. B. Fowler and G. E. Warren.....	560,704	May 26	2517	578	75	1230
Sewing-machine shuttle-driving mechanism.....	H. Moore.....	554,393	Feb. 11	1052	245	74	715
Sewing-machine shuttle thread-tension.....	H. T. Crosby.....	572,334	Dec. 1	438	103	77	1362
Sewing-machine. Sole.....	W. H. Dorman.....	556,177	Mar. 10	1233	288	74	1377
Sewing-machine. Sole.....	Z. T. French and W. C. Meyer.....	563,471	July 7	395	93	76	76
Sewing-machine. Sole.....	Z. T. French and W. C. Meyer.....	563,472	July 7	398	94	76	77
Sewing-machine. Sole.....	L. Goddu.....	559,129	Apr. 28	2868	691	75	590
Sewing-machine spinning attachment.....	B. Conner.....	557,110	Mar. 31	2892	691	74	1745
Sewing-machine spool-holder.....	L. E. Smith.....	571,024	Nov. 10	1066	253	77	869
Sewing-machine stand.....	J. Bolton.....	552,508	Jan. 7	11	4	74	5
Sewing-machine stay-guide.....	L. Levy.....	560,296	May 19	1757	400	75	1076
Sewing-machine stay-guide.....	F. W. Merrick.....	570,036	Oct. 27	2308	548	77	475
Sewing-machine stay-guide.....	F. W. Merrick.....	570,037	Oct. 27	2311	548	77	476
Sewing-machine. Straw-braid.....	E. Wiseman.....	565,585	Aug. 11	1175	282	76	853
Sewing-machine table.....	J. Bolton.....	552,507	Jan. 7	10	3	74	5
Sewing-machine table.....	J. C. Cochran.....	571,748	Nov. 24	2344	560	77	1135
Sewing-machine table.....	N. A. Hull.....	571,193	Nov. 10	1382	323	77	924
Sewing-machine take-up.....	J. Bolton.....	568,559	Sept. 29	3210	773	76	1935
Sewing-machine take-up.....	F. O. Jerram.....	566,767	Sept. 1	58	15	76	1291
Sewing-machine take-up.....	J. M. Merrow.....	570,135	Oct. 27	2488	590	77	510
Sewing-machine take-up.....	J. M. Merrow.....	570,136	Oct. 27	2490	590	77	510
Sewing-machine tension.....	J. F. Hardy.....	560,793	May 26	2674	614	75	1260
Sewing-machine tension device.....	J. B. Dobyne.....	564,557	July 21	2308	548	76	455
Sewing-machine tension device.....	G. W. La Rue.....	553,347	Jan. 21	1564	373	74	320
Sewing-machine tension device.....	W. A. Mack.....	561,011	May 26	3047	701	75	1331
Sewing-machine tension-operating mechanism.....	A. W. Johnson.....	561,790	June 9	1313	314	75	1643
Sewing-machine thread-cutting device.....	C. H. and T. E. Colby.....	561,766	June 9	1263	301	75	1634
Sewing-machine thread-pull-off device.....	J. H. Trowbridge.....	557,730	Apr. 7	374	87	75	71
Sewing-machine thread-waxing device.....	C. P. Holmes.....	564,883	July 28	2865	687	76	575
Sewing-machine treadle.....	P. Diehl and T. Kraemer.....	568,717	Sept. 29	3508	840	76	1992
Sewing-machine trimmer.....	E. B. Allen.....	561,078	June 2	2	1	75	1367
Sewing-machine trimming attachment.....	A. B. Jacobus.....	570,805	Nov. 3	698	159	77	767
Sewing-machine trimming attachment.....	W. A. Polmateer.....	561,813	June 9	1347	321	75	1649
Sewing-machine trimming attachment.....	C. G. Rutz.....	556,940	Mar. 24	2595	611	74	1664
Sewing-machine tuck-marker.....	F. L. Goodrich.....	557,350	Feb. 4	67	14	74	517
Sewing-machine tuck-marking attachment.....	O. B. Brush.....	553,857	Mar. 31	3348	804	74	1827
Sewing-machine welt-guiding mechanism.....	A. B. Fowler and G. E. Warren.....	560,705	May 26	2518	578	75	1230
Sewing-machine work-feeding attachment.....	W. S. Mills.....	552,691	Jan. 7	336	89	74	66
Sewing-machine work-moving attachment.....	J. D. Schoonmaker.....	571,459	Nov. 17	1825	435	77	1021
Sewing-machine work-plate.....	C. H. Fogg.....	555,476	Feb. 25	2990	712	74	1111
Sewing-machine. Zigzag-stitch.....	G. W. Weiss.....	552,941	Jan. 14	852	206	74	173
Sewing-machines. Bobbin case and holder for revolving-hook.....	A. Miller.....	573,894	Dec. 29	3248	774	77	1961
Sewing-machines. Hair-dividing attachment for over-edge.....	H. A. Klemm.....	571,126	Nov. 10	1286	298	77	905
Sewing-machines. Hair-dividing attachment for over-edge.....	H. A. Klemm.....	571,323	Nov. 10	1604	381	77	966
Sewing-machines. Universal-feed attachment for.....	G. W. Weiss.....	562,445	June 23	2424	587	75	1886
Sewing-machines. Welt-beveling attachment for sole.....	J. B. Hadaway. (Reissue).....	11,578	Dec. 8	1503	360	77	1586
Sewing on shank-buttons. Machine for.....	E. L. Goding.....	566,754	Sept. 1	37	10	76	1287
Sewing on shank-buttons. Machine for.....	R. Thorssin.....	559,004	Apr. 28	2613	636	75	542
Sewing sweat-bands into hats. Machine for.....	W. P. Gammons, Jr.....	566,858	Sept. 1	206	47, 48	76	1322
Sewing tubular articles. Machine for.....	E. Klotz, J. Landry, and G. F. Beyroux.....	562,024	June 16	1824	442	75	1757
Sewing webs of fabric. Mechanism for.....	E. T. and E. H. Marble.....	568,032	Sept. 22	2274	551	76	1746
Shackle-bar for drawing drift-bolts.....	J. S. Thayer and H. L. Michael.....	564,122	July 14	1566	368	76	308
Shade. Adjustable.....	A. F. Espersen.....	565,203	Aug. 4	470	112	76	704
Shade and curtain bracket. Window.....	E. E. E. Pinckney.....	562,910	June 30	3249	784	75	2061
Shade-attaching device.....	E. F. Hartshorn.....	564,573	July 21	2337	549	76	460
Shade attachment. Window.....	P. Davies.....	559,098	Apr. 28	2782	674	75	574
Shade attachment. Window.....	J. W. Duncan.....	563,658	July 7	699	165	76	132
Shade fixture. Adjustable window.....	R. C. Bird.....	557,543	Apr. 7	20	6	75	6
Shade fixture. Window.....	P. G. Emery.....	560,133	May 12	1448	326	75	970
Shade for chimneys. Canopy.....	J. D. Warren.....	560,664	May 26	2451	561	75	1216
Shade-holder.....	B. Conner.....	573,138	Dec. 15	1856	446	77	1670

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Shade-holding device	H. H. and H. H. Forsyth, Jr.	559,446	May 5	173	38	75	715
Shade raiser. Window	J. H. McCauley	558,198	Apr. 14	1217	296	75	247
Shade-roller	P. H. Brangs	556,839	Mar. 24	2426	570	74	1633
Shade-roller	S. Y. Davis and H. O. Mooney	574,141	Dec. 29	3707	884	77	2044
Shade-roller attachment	E. F. Hartshorn	568,250	Sept. 22	2667	638	76	1819
Shade-rollers. Adjustable bracket for	W. J. Minich	564,444	July 21	2116	495	76	420
Shade-rollers. Extensible tip for	W. B. Shaw	564,111	July 14	1548	364	76	304
Shade-rollers. Machine for making metal	A. F. Madden	556,857	Mar. 24	2453	577	74	1639
					578		
Shade support. Window	A. and J. Bair	565,419	Aug. 11	848	199	76	793
Shade supporter or bracket	J. P. Baumgartner	572,594	Dec. 8	891	216	77	1467
Shade-supporting device	J. W. Turnbull	554,552	Feb. 11	1323	310	74	766
Shade. Window	J. G. J. Davis	557,771	Apr. 7	450	106	75	85
Shades. Guide for spring-actuated	R. P. Smith	564,721	July 28	2583	612	76	525
Shades or globes. Support or holder for	E. O. Steele	561,174	June 2	124	46	75	1402
Shades to rollers. Attaching window	E. F. Hartshorn	553,407	Jan. 21	1660	397	74	338
Shades to rollers. Attaching window	E. F. Hartshorn	572,294	Dec. 1	366	87	77	1349
Shaft and belt-tightener. Counter	E. C. Weston	573,191	Dec. 15	1947	469	77	1687
Shaft-brake	J. J. Stover	572,649	Dec. 8	985	237	77	1485
Shaft. Carriage	M. F. J. Willemijn	565,316	Aug. 4	678	163	76	741
Shaft. Counter	J. H. Brown	561,198	June 2	222	54	75	1411
Shaft-coupling	H. Hess	566,980	Sept. 1	433	102	76	1363
Shaft-coupling	F. M. Leavitt	552,532	Jan. 7	49	15, 16	74	12
Shaft-coupling	W. H. Nicholson	565,088	Aug. 4	237	57	76	660
Shaft-coupling	W. J. Temple	562,206	June 16	2020	428	75	1795
Shaft. Crank	F. C. Holmes	564,958	July 28	3009	716	76	601
Shaft. Flexible	E. L. Doyen	564,875	July 28	2856	684	76	573
Shaft. Flexible	N. Stow	571,869	Nov. 24	2556	606	77	1175
Shaft-hanger	W. M. Byrd	560,775	May 26	2645	607	75	1254
Shaft-hanger and lubricator therefor	J. E. Hoppen	553,676	Jan. 28	2128	504	74	440
Shaft-liner	W. D. Gardner	563,226	June 30	3823	916	75	2172
Shaft or pole coupling	E. Benkert	568,062	Sept. 22	2334	564	76	1756
Shaft or tongue coupling	L. Prideaux	569,426	Oct. 13	1320	286	77	247
Shaft. Rotating	C. G. P. de Laval	553,811	Jan. 28	2353	560	74	483
Shaft shackle. Wagon	H. M. Applegate	573,633	Dec. 22	2791	660	77	1863
Shaft step. Vertical	H. Trenta	572,282	Dec. 1	342	82	77	1345
Shaft-support. Vehicle	E. L. Buckingham	560,967	May 26	2921	684	75	1318
Shaft. Variable-speed counter	B. Holmes	571,879	Nov. 24	2571	609	77	1178
					610		
Shaft. Vehicle	P. F. Chambers	571,213	Nov. 10	1412	330	77	929
Shaft. Vehicle	A. J. B. Pietri	560,534	May 19	2159	493	75	1148
Shafts. Apparatus for steadying motion of rapidly-rotating	C. G. P. de Laval	563,191	June 30	3765	900	75	2163
					901		
Shafts. Vehicle	C. A. Floyd	557,793	Apr. 7	436	116	75	92
Shafting-collar	J. Hankin	553,525	Jan. 28	1870	443	74	395
Shafting-hanger	I. N. Hamilton	573,182	Dec. 15	1925	462	77	1683
Shafting-hanger	B. Lobee	560,297	May 19	1759	401	75	1076
Shafting straightening and polishing machine	P. Medart	558,591	Apr. 21	1899	460	75	391
Shafting. Universal-joint coupling for	W. Eady	565,159	Aug. 4	391	91	76	690
Shake-frames. Mechanism for imparting motion to	C. R. Seddon	561,529	June 2	843	203	75	1529
Shaker-screen	D. E. Phillips	555,262	Feb. 25	2596	609	74	1038
Shaking-screen	W. D. Richardson and G. J. Holl	553,360	Jan. 21	1586	379	74	824
Shank-stiffener	G. H. Stevens	566,240	Aug. 18	2328	570	76	1093
Shaper and ditcher	J. E. McCormick	554,948	Feb. 18	2019	478	74	915
Sharpener. Disk	J. D. Armstrong	558,922	Apr. 28	2479	602	75	515
Sharpener. Disk	B. L. Elliott	555,936	Mar. 10	772	186	74	1294
Sharpener. Drill	O. Larson and J. W. Carlson	552,243	Jan. 7	644	158	74	121
Sharpener. Harrow-disk	H. R. Herschel	552,999	Jan. 14	941	228	74	190
Sharpener. Knife	J. H. Brinkman	572,190	Dec. 1	164	39	77	1309
Sharpener. Knife	S. L. Cohen	557,051	Mar. 24	2797	665	74	1703
Sharpener. Knife	R. J. Dearborn	563,023	June 30	3470	831	75	2105
Sharpener. Knife	O. Johnson	559,333	Apr. 28	3251	785	75	661
Sharpener. Knife	G. J. McCarthy	556,716	Mar. 17	2200	514	74	1574
Sharpener. Knife	C. A. Miller	558,407	Apr. 14	1574	384	75	313
Sharpener. Knife or scissors	C. F. Hausse	562,223	June 16	2046	495	75	1800
Sharpener. Knife or scissors	J. A. Whitney	561,403	July 21	2049	480	76	409
Sharpener. Lawn-mower-knife	J. J. Burke	563,558	July 7	552	127	76	104
Sharpener. Scissors	C. B. Corbin	559,570	May 5	376	91	75	755
Sharpener. Scissors	G. R. Ford	554,116	Feb. 4	586	132	74	611
Sharpener. Scissors	W. Titus	561,926	June 9	1534	371	75	1685
Sharpening device	P. W. Strong	560,052	May 12	1292	291	75	940
Sharpening disk-knives. Implement for	H. S. Clinton	553,279	Jan. 21	1452	349	74	300
Sharpening edged tools. Device for	W. Purdy	570,337	Oct. 27	2999	688	77	586
Sharpening-machine	H. K. Wheeler	558,916	Apr. 21	2463	599	75	496
					600		
Sharpening machine. Razor	C. F. Laganke and L. M. Marbach	559,456	May 5	190	41, 42	75	718
Shaving-brush holder	S. T. Varian	568,121	Sept. 22	2451	588	76	1778
Shaving-cabinet	F. A. Herrick	560,266	May 19	1705	388	75	1067
Shaving-cup	J. Frye	568,529	Sept. 29	3167	762	76	1927
Shaving-knife	W. H. Mohr	558,655	Apr. 21	2008	486	75	412
Shaving stand	A. K. Devos	559,572	May 5	377	91	75	756
Shawl-strap	L. Phelan	562,021	June 16	1703	414	75	1737
Sheaf-carrier	H. J. Case	552,053	Jan. 14	1031	251	74	207
					252		
Shearing-machine	G. Guild	569,281	Oct. 13	971	232	77	201
					233		
Shearing machine. Bevel	H. C. Jones	568,256	Sept. 22	2677	641	76	1821
Shearing or cutting tool. Combined	R. M. Hunter	570,930	Nov. 10	929	216	77	840
					217		
Shears:							
See Animal-shears. Pruning-shears.							
Hydraulic shears. Sheep-shears.							
Pipe-shears.							
Shears	H. F. Dillenbach	563,458	July 7	374	86	76	72

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Shears	I. Dobnal	573,075	Dec. 15	1738	416	77	1648
Shears	V. E. Edwards	553,398	Jan. 21	1644	393	74	335
Shears	P. Haase	571,160	Nov. 10	1333	311	77	914
Shears	A. C. Lemm	572,644	Dec. 8	977	235	77	1484
Shears	W. Richard	564,102	July 14	1534	360	76	301
Shears	W. Richard	568,580	Sept. 29	3251	752	76	1913
Shears	H. F. and W. Rivard	556,644	Mar. 17	2091	489	74	1553
Shears	D. C. Wheeler	565,193	Aug. 4	457	109	76	701
Shears	D. Wiget and J. B. Schneider	566,830	Sept. 1	159	37	76	1312
Sheathing composition	R. D. Upham	561,296	June 2	410		75	1449
Sheep-shears	S. L. Cohoon	553,954	Feb. 4	281	62	74	556
Sheep-shears	R. P. Landrum	555,778	Mar. 3	481	115	74	1217
Sheet-delivery mechanism	H. Hall	560,215	May 19	1601	362	75	1050
Sheet-feeder	G. B. Wurtz	573,952	Dec. 29	3352	804	77	1980
Sheet-feeding machine	L. C. Hopkins	553,713	Jan. 28	2187	519 520	74	452
Sheet-metal articles. Making spotted	E. Püttmann	555,324	Feb. 25	2526		74	1025
Sheet-metal articles. Means for repairing punctured	M. A. Stone	564,850	July 28	2812	670	76	565
Sheet-metal can	M. Ams	570,591	Nov. 3	293	72	77	693
Sheet-metal can	F. H. Palmer	572,818	Dec. 8	1229	310	77	1542
Sheet-metal can. Key-opening	J. Zimmermann	566,958	Sept. 1	379	88	76	1354
Sheet-metal-drawing machine	R. J. Good	564,990	Aug. 4	51	12	76	627
Sheet-metal-edging machine	G. W. Peters	563,798	July 14	958	228	76	196
Sheet-metal gage	E. G. Paul	555,417	Apr. 14	1590	328	75	317
Sheet-metal. Machine for making curved molding and embossing	C. J. Colling	558,673	Apr. 21	2044	492 493	75	417
Sheet-metal-ridging machine	F. P. McColl	566,999	Sept. 1	470	109	76	1370
Sheet-metal summer piece and frame	J. Graves	562,393	June 23	2331	563	75	1868
Sheet-metal. Treating and annealing	W. E. Harris	559,705	May 5	595	141	75	795
Sheet-metal trough or conductor	P. A. Lorenz	559,338	Apr. 28	3258	787	75	662
Sheet-metal tube	N. W. Hartman	556,819	Mar. 24	2398	563	74	1627
Sheet-metal-tube-making machine. Automatic	O. P. Briggs	563,255	July 7	28	5, 6 7, 8	76	7
Sheet-metal tubes. Apparatus for manufacturing helically coiled	W. Hillman	556,979	Mar. 24	2662	625	74	1677
Sheet-metal vessel	E. F. O'Toole	565,024	Aug. 4	112	27	76	639
Sheet-metal vessel	F. A. Walsh	558,129	Apr. 14	1107	270 271	75	227
Sheet-metal-working machine	J. F. McNutt	567,038	Sept. 1	536	136	76	1383
Sheet-metal-working press	A. Calleson	561,040	June 2	24	6, 7	75	1372
Sheet separating and feeding machine	T. A. Briggs	560,153	May 12	1479	334	75	975
Sheet separating and feeding machine	E. Dummer	566,671	Aug. 25	3074	750 1, 2 3, 4	76	1249
Sheet separating and feeding machine	J. H. Knowles	559,804	May 12	787	190 191 192	75	845
Sheet separating and feeding machine	W. G. Trevette	562,866	June 30	3167	707 768	75	2043
Sheet separating and feeding machine. Pneumatic	G. F. Leiger	557,279	Mar. 31	3213	771 772	74	1800
Sheet-separating machine	B. W. Child, J. Keating, and W. B. Foy	567,263	Sept. 8	928	221 222	76	1467
Sheet-separating machine	W. A. Lorenz	570,175	Oct. 27	2559	608 609	77	524
Sheet-separating machine	W. A. Lorenz and C. Reising	570,176	Oct. 27	2560	609 610	77	524
Shelf. Adjustable book	J. Koestler	563,279	July 7	78	20	76	16
Shelf and table. Convertible	A. J. and J. Jameson	554,187	Feb. 4	704	159	74	634
Shelf-bracket	T. M. and R. J. Anderson	560,884	May 26	2850	652	75	1293
Shelf-bracket	T. Corscaden	553,497	Jan. 21	1812	430	74	367
Shelf-bracket	T. Corscaden	555,722	Mar. 3	404	93	74	1202
Shelf-bracket	T. Corscaden	557,492	Mar. 31	3585	859	74	1872
Shelf-bracket	J. C. Griffin	571,519	Nov. 17	1934	461	77	1041
Shelf-bracket	H. B. Sargent	561,242	June 2	283	71	75	1422
Shelf bracket. Wardrobe	I. W. Heysinger	564,519	July 21	2230	523	76	442
Shelf construction	L. Coburn	564,005	July 14	1350	314	76	266
Shelf. Roller book	M. R. Jewell and P. H. Yawman	557,392	Mar. 31	3410	819	74	1839
Shelf. Window	M. K. Waite	572,231	Dec. 1	243	58	77	1325
Shelving	F. E. Hartzell	569,640	Oct. 20	1618	381	77	337
Shelving. Adjustable	W. Gender	566,305	Aug. 25	2436	597	76	1128
Shelving. Library	G. Stikeman	571,249	Nov. 10	1477	346	77	941
Shelving. Library	W. H. and F. A. Winslow	568,825	Oct. 6	190	46	77	38
Shelving. Library	W. H. and F. A. Winslow	569,270	Oct. 13	952	228	77	197
Shelving. Roller	H. N. Booz	554,213	Feb. 4	742	169	74	641
Shelving, &c. Supporting	W. M. Poindexter	567,002	Sept. 1	476	110	76	1371
Shell-cleaner	J. E. Whitehead	567,057	Sept. 1	571	133	76	1390
Shell. Explosive	E. M. Johnson	555,774	Mar. 3	476	114	74	1216
Shell for high explosives	J. G. Justin	572,261	Dec. 1	294	70, 71	77	1335
Shell. High-explosive	L. Gathmann	569,192	Oct. 13	816	192	77	171
Sheller:							
See Almond-sheller. Corn-sheller.							
Shifting apparatus	A. Chavanne	570,623	Nov. 13	381	91	77	708
Shingle-edger	H. G. Richardson	560,147	May 12	1472	332	75	974
Shingle-edging machine	N. J. Tilghman	556,169	Mar. 10	1222	285	74	1375
Shingle-machine	W. J. Perkins	561,278	June 2	345	86, 87	75	1436
Shingle-machine	W. J. Perkins	561,280	June 2	359	90 91 92	75	1439
Shingle-machine	W. J. Perkins	569,051	Oct. 6	578	132 133	77	110
Shingle. Metallic	F. Crawford	553,514	Jan. 28	1843	438	74	389
Shingle-planer	K. L. J. Frazer	561,103	June 2	47	12, 13	75	1376
Shingle-sawing machine	F. Challoner	555,148	Feb. 25	2399	569	74	1001
Shingle-sawing machine	F. Challoner	570,539	Nov. 3	187	49, 50	77	672

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Shingle-sawing machine	W. J. Perkins	561,279	June 2	351	{ 87 88 89 92 93 94 95	{ 75	1437
Shingle-sawing machine	W. J. Perkins	561,281	June 2	369	{ 84 85 86 87 88 89 90	{ 75	1441
Shingle-sawing machine	W. J. Perkins	561,282	June 2	382	{ 96 97	{ 75	1444
Shingle-sawing machine	J. B. Walker	557,458	Mar. 31	3519	{ 841 842 843 844 845 846 847	{ 74	1859
Shingle-sawing machines. Dog guiding and operating mechanism for	F. Challoner	560,687	May 26	2492	{ 571 572	{ 75	1225
Shingle-sawing machines. Spalt-dropper for rotary	F. Challoner	559,362	May 5	23	{ 5	{ 75	685
Shingling-bracket	E. A. Bardwell, Jr.	574,055	Dec. 29	3553	{ 848 849 850 851 852 853 854	{ 77	2017
Shingling-bracket	J. A. Kerr	571,374	Nov. 17	1686	{ 399 400 401 402 403 404 405	{ 77	995
Shingling-gage	F. L. Pelley	563,830	July 14	1013	{ 241 242 243 244 245 246 247	{ 76	205
Ship-windlass attachment	F. S. Manton	562,474	June 23	2467	{ 598 599 600 601 602 603 604	{ 75	1894
Ships and for raising sunken vessels, &c. Apparatus for preventing sinking of	F. Kindt	557,396	Mar. 31	3414	{ 820 821 822 823 824 825 826	{ 74	1840
Ships' bottoms. Apparatus for cleaning	P. Reilly	560,646	May 26	2417	{ 553 554 555 556 557 558 559	{ 75	1210
Ships' bottoms. Scouring-brush for cleaning	C. P. Turner	573,115	Dec. 15	1806	{ 435 436 437 438 439 440 441	{ 77	1662
Ships, &c. Construction of	S. Stuart	566,485	Aug. 25	2809	{ 685 686 687 688 689 690 691	{ 76	1198
Ships. Electric running-light and signal-lantern for	J. Barré	559,048	Apr. 28	2691	{ 655 656 657 658 659 660 661	{ 75	556
Ship's hatch	J. R. Oldham	574,259	Dec. 29	3964	{ 942 943 944 945 946 947 948	{ 77	2090
Ships. Hydraulic system for closing water-tight bulkheads on board	W. B. Cowles	564,474	July 21	2161	{ 506 507 508 509 510 511 512	{ 76	428
Ship's windlass	E. H. Whitney	572,781	Dec. 8	1230	{ 297 298 299 300 301 302 303	{ 77	1531
Shipper's tool	E. D. Woods	566,955	Sept. 1	374	{ 87 88 89 90 91 92 93	{ 76	1354
Shipping and storing case. Self-dumping	O. Greene	559,797	May 12	775	{ 186 187 188 189 190 191 192	{ 75	843
Shipping-case	E. L. Snader	558,576	Apr. 21	1872	{ 454 455 456 457 458 459 460	{ 75	387
Shipping-case. Banana	F. Schmitz	563,070	June 30	3561	{ 855 856 857 858 859 860 861	{ 75	2124
Shirt	G. H. Addinsell	561,851	June 9	1418	{ 341 342 343 344 345 346 347	{ 75	1662
Shirt	S. K. Meyerhoff	562,636	June 23	2747	{ 667 668 669 670 671 672 673	{ 75	1947
Shirt	J. E. North	560,527	May 19	2148	{ 491 492 493 494 495 496 497	{ 75	1146
Shirt and drawers stretcher	W. T. Lintner and W. C. Bull ..	558,085	Apr. 14	1037	{ 253 254 255 256 257 258 259	{ 75	212
Shirt-collar fastener and adjusting device	J. B. Wolgemuth and G. S. Engle ..	553,950	Feb. 4	274	{ 60 61 62 63 64 65 66	{ 74	555
Shirt-sleeve, &c.	W. F. Williams	552,601	Jan. 7	167	{ 46 47 48 49 50 51 52	{ 74	33
Shirt-waist	A. H. Graffey	564,925	July 28	2945	{ 702 703 704 705 706 707 708	{ 76	590
Shirt-waist	F. A. Platz	570,051	Oct. 27	2332	{ 553 554 555 556 557 558 559	{ 77	480
Shirt-waist	I. Schneer	566,940	Sept. 1	354	{ 83 84 85 86 87 88 89	{ 76	1350
Shirt-waist	A. Wolf	558,331	Apr. 14	1444	{ 355 356 357 358 359 360 361	{ 75	291
Shirt-waist-folding machine	J. Jonasson	565,275	Aug. 4	614	{ 145 146 147 148 149 150 151	{ 76	728
Shock-compressor	B. H. Long	553,962	Feb. 4	293	{ 65 66 67 68 69 70 71	{ 74	558
Shoe	A. Bélaire	554,229	Feb. 11	765	{ 174 175 176 177 178 179 180	{ 74	661
Shoe	A. M. Bollinger	556,801	Mar. 24	2367	{ 557 558 559 560 561 562 563	{ 74	1622
Shoe	A. M. Bollinger	561,645	June 9	1038	{ 250 251 252 253 254 255 256	{ 75	1591
Shoe	J. H. Preble	564,714	July 28	2572	{ 609 610 611 612 613 614 615	{ 76	523
Shoe	L. Rieger	562,663	June 23	2789	{ 677 678 679 680 681 682 683	{ 75	1955
Shoe	W. Schneider	564,767	July 28	2677	{ 636 637 638 639 640 641 642	{ 76	541
Shoe	G. W. Sleeper	559,313	Apr. 28	3202	{ 774 775 776 777 778 779 780	{ 75	652
Shoe	D. D. Toal	563,629	July 7	662	{ 154 155 156 157 158 159 160	{ 76	124
Shoe-clasp locker	W. L. Judson	557,208	Mar. 31	3088	{ 740 741 742 743 744 745 746	{ 74	1778
Shoe. Congress	E. D. Friswell	561,706	June 9	1156	{ 275 276 277 278 279 280 281	{ 75	1614
Shoe-counter-finishing machine	W. H. Taylor	559,632	May 5	481	{ 111 112 113 114 115 116 117	{ 75	775
Shoe-fastener	E. Compton	557,053	Mar. 24	2798	{ 665 666 667 668 669 670 671	{ 74	1704
Shoe-fastener	C. H. Pratt	559,463	May 5	199	{ 44 45 46 47 48 49 50	{ 75	720
Shoe-fastening	W. H. Benford	562,114	June 16	1870	{ 453 454 455 456 457 458 459	{ 75	1766
Shoe-fastening	W. H. Dailey	561,540	June 2	860	{ 207 208 209 210 211 212 213	{ 75	1532
Shoe-fastening	W. L. Judson	557,207	Mar. 31	3084	{ 739 740 741 742 743 744 745	{ 74	1777
Shoe-fastening	T. T. Pergament	563,060	June 30	3515	{ 844 845 846 847 848 849 850	{ 75	2115
Shoe-form	S. F. Eaton	560,200	May 19	1574	{ 356 357 358 359 360 361 362	{ 75	1044
Shoe-holder	A. B. Crocco	563,571	July 7	574	{ 132 133 134 135 136 137 138	{ 76	107
Shoe-holder	W. P. Welch	573,498	Dec. 22	2537	{ 601 602 603 604 605 606 607	{ 77	1812
Shoe-machine	J. Kotzlovsky	574,337	Dec. 29	4093	{ 972 973 974 975 976 977 978	{ 77	2115
Shoe-machine jack	F. E. Francis	573,144	Dec. 15	1865	{ 449 450 451 452 453 454 455	{ 77	1672
Shoe-polisher	H. D. Waddel	556,652	Mar. 17	2104	{ 492 493 494 495 496 497 498	{ 74	1555
Shoe-polishing appliance	G. F. Bowman and A. G. Langell ..	568,833	Oct. 6	200	{ 48 49 50 51 52 53 54	{ 77	40
Shoe-polishing cabinet	B. J. Smith	564,032	July 14	1393	{ 324 325 326 327 328 329 330	{ 76	273
Shoe-polishing device	E. Young	573,379	Dec. 15	2286	{ 545 546 547 548 549 550 551	{ 77	1748
Shoe-polishing machine	J. T. Ray, 2d	573,917	Dec. 29	3286	{ 786 787 788 789 790 791 792	{ 77	1969
Shoe-pull	G. Müller	571,276	Nov. 10	1525	{ 361 362 363 364 365 366 367	{ 77	950
Shoe-rack	J. J. Rhodes	564,716	July 28	2576	{ 610 611 612 613 614 615 616	{ 76	524
Shoe-shanks. Machine for manufacturing	A. C. Campbell	554,652	Feb. 18	1514	{ 555 556 557 558 559 560 561	{ 74	818
Shoe-stay	A. Weigand	570,076	Oct. 27	2390	{ 566 567 568 569 570 571 572	{ 77	491
Shoe-stiffenings. Machine for manufacturing	J. R. McManus and T. F. Hart ..	568,868	Oct. 6	268	{ 62 63 64 65 66 67 68	{ 77	52
Shoe-stretcher	H. S. Bacon	562,791	June 30	3018	{ 729 730 731 732 733 734 735	{ 75	2016
Shoe-stretcher	D. Fletcher	565,341	Aug. 4	717	{ 172 173 174 175 176 177 178	{ 76	749
Shoe-tip-punching machine	H. L. Kemp	573,274	Dec. 15	2084	{ 500 501 502 503 504 505 506	{ 77	1712
Shoe. Turned	H. D. Holbrook	560,716	May 26	2538	{ 583 584 585 586 587 588 589	{ 75	1233
Shoe-upper	J. A. Adams	562,347	June 16	2263	{ 549 550 551 552 553 554 555	{ 75	1840
Shoe upper. Laced	W. T. Benjamin	552,506	Jan. 7	8	{ 3 4 5 6 7 8 9	{ 74	5
Shoe. Ventilated	M. Hilgert	568,068	Sept. 22	2347	{ 566 567 568 569 570 571 572	{ 76	1758
Shoe. Welt	A. Reed	563,803	July 14	967	{ 230 231 232 233 234 235 236	{ 76	197
Shoes. Apparatus for manufacturing insoles for	G. W. Sleeper	563,082	June 30	3580	{ 859 860 861 862 863 864 865	{ 75	2128
Shoes. Lacing-strip for laced	J. Sabine	570,963	Nov. 10	984	{ 229 230 231 232 233 234 235	{ 77	850

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Shoes, leggings, &c. Fastening for.	J. L. Conaway.	572,157	Dec. 1	114	27	77	1299
Shoes. Manufacture of.	M. März and L. Sack.	567,149	Sept. 8	743	173	76	1434
Shoes. Stay for ankle portion of.	A. Posner.	555,328	Feb. 25	2721	637	74	1061
Shoestring-fastener.	H. H. Abell.	561,550	June 9	875	211	75	1561
Shoestring-fastener.	E. J. Lunt.	561,009	May 26	3045	700	75	1330
Shoeing-rack.	A. C. Schodorf.	574,115	Dec. 29	3657	873	77	2035
Shore or bank protector and method of and apparatus for constructing and placing same.	D. Neale.	570,946	Nov. 10	957	222	77	845
Shoulder and back bracing chair.	L. Harvey and J. Amos.	567,096	Sept. 1	644	150	76	1404
Shoulder-brace.	T. Bessing.	559,024	Apr. 28	2647	645	75	519
Shoulder-brace.	K. R. Lang.	556,424	Mar. 17	1721	401	74	1484
Shoulder-brace and suspenders.	F. Tramblay.	555,272	Feb. 25	2615	613	74	1041
Shovel.							
See Irrigation-shovel. Steam shovel.							
Power-shovel.							
Shoveling-board.	D. Hufnagel.	560,996	May 26	3022	696	75	1326
Show-card, &c., or means for displaying velvets, &c.	R. J. N. Rusden.	573,538	Dec. 22	2603	617	77	1825
Show-case.	C. F. Biele.	562,701	June 23	2847	691	75	1965
Show-case.	W. Bower.	559,159	Apr. 28	2929	707	75	601
					708		
					190		
Show-case.	J. Conlin and R. Whitty.	557,974	Apr. 7	798	191	75	150
Show-case.	J. M. Dils.	569,620	Oct. 20	1573	370	77	28
Show-case.	D. Forbes and E. T. Bennett.	554,864	Feb. 18	1881	442	74	890
Show-case.	F. Gurley.	569,455	Oct. 13	1263	297	77	255
Show-case.	F. W. R. Mansfeld.	570,322	Oct. 27	2874	683	77	581
Show-case.	J. T. Robin.	561,613	June 9	988	237	75	1582
Show-case bracket.	F. Pollard.	568,039	Sept. 22	2225	553	76	1748
Show-case. Cabinet.	A. Bever.	557,948	Apr. 7	755	180	75	142
Show-case fixture.	J. Wayne.	556,483	Mar. 17	1823	424	74	1504
Show-case. Grocery.	A. J. Chase.	558,158	Apr. 14	1153	282	75	235
Show-case. Umbrella.	W. V. Parker.	566,091	Aug. 18	2083	507	76	1045
					508		
Show-fixture.	E. Leger.	566,521	Aug. 25	2463	695	76	1209
Show-rack. Revolving.	T. Olson.	569,660	Oct. 20	1647	389	77	342
Show-window.	F. Pollard.	561,339	June 2	491	123	75	1465
					124		
Shower or needle bath.	W. R. Humphrey.	552,839	Jan. 7	639	157	74	120
Shredder-head.	G. W. Packer.	562,092	June 16	1837	446	75	1759
Shutter bower and fastener.	C. Zimmerman.	564,548	July 21	2279	535	76	450
Shutter-closer.	C. E. Smith.	556,110	Mar. 10	1108	263	74	1354
					264		
Shutter-fastener.	R. A. W. Oestmann.	569,724	Oct. 20	1783	424	77	365
Shutter-fastener.	G. L. Vogel.	571,566	Nov. 17	2046	487	77	1060
Shutter fastener. Window.	W. T. Fisher.	553,499	Jan. 21	1814	431	74	367
Shutter for fire protection. Automatic.	N. H. Reynolds.	574,002	Dec. 29	3457	827	77	1999
Shutter-lock.	F. Krupp.	554,701	Feb. 18	1594	375	74	835
Shutter operating and locking device.	A. Veit.	564,807	July 28	2744	652	76	552
Shutter-operating device.	R. H. Ireland.	572,204	Dec. 8	1271	306	77	1539
Shutter or door fastener.	F. P. Geyer.	556,141	Mar. 10	1167	274	74	1365
Shutter or screen. Adjustable and folding.	O. Hoyer.	573,659	Dec. 22	2847	671	77	1872
Shutter or screen. Rolling.	O. Bayer.	571,988	Nov. 24	2771	654	77	1217
Shutter. Window.	C. J. Christianson.	558,159	Apr. 14	1154	283	75	236
Shutter-worker.	J. W. Kincaid.	566,188	Aug. 18	2250	550	76	1077
Shutter-worker.	J. S. Patten.	568,544	Sept. 29	3190	769	76	1931
Shutter-worker.	C. Wagner.	570,577	Nov. 3	268	66	77	688
Shutter-worker.	A. H. Wheeler.	567,016	Sept. 1	501	118	76	1376
Shutter worker and fastener.	J. A. Thomas.	561,925	June 9	1533	371	75	1684
Shutters, blinds, &c. Interchangeable slat for.	M. Shinsky.	572,726	Dec. 8	1218	295	77	1529
Shuttle.	J. Raitton.	574,112	Dec. 29	3652	871	77	2034
Shuttle.	J. C. Sergeson.	561,137	June 2	104	28	75	1387
Shuttle bow or conductor.	A. M. Chouvelon.	573,861	Dec. 29	3192	760	77	1950
Shuttle-box-supporting rod.	A. Gartner.	554,258	Feb. 11	828	189	74	673
Shuttle tension device.	J. H. Nason.	560,741	May 26	2574	593	75	1241
Shuttle-threader.	R. Brodeur.	569,853	Oct. 20	1999	477	77	404
Shuttle-threader.	F. Lafountain.	562,002	June 16	1666	406	75	1730
Sideboard and extension-table. Combination.	E. Unger.	555,413	Feb. 25	2859	674	74	1088
					675		
Siding-spacing gage.	J. A. Ratcliff.	565,299	Aug. 4	651	155	76	736
Sieve. Ash.	L. R. Hall.	556,347	Mar. 17	1574	368	74	1456
Sieve cleaning or brushing device.	D. E. Burner and M. Shaner.	559,258	Apr. 28	3123	754	75	638
Sieve. Flour-mill.	J. Denis.	571,219	Nov. 10	1422	332	77	931
Sieve-holder.	J. Tolletson.	564,855	July 28	2824	674	76	567
Sieving, separating, and purifying apparatus.	J. Higginbottom.	556,148	Mar. 10	1184	277	74	1369
Sifter.	A. Hanson.	567,711	Sept. 15	1704	409	76	1626
Sifter.	J. W. Johnson.	573,272	Dec. 15	2081	499	77	1711
Sifter. Ash.	A. E. Bennett.	554,573	Feb. 11	1358	318	74	774
Sifter. Ash.	M. J. Brandenberger.	572,242	Dec. 1	259	62	77	1328
Sifter. Ash.	H. E. Buck.	553,896	Feb. 4	165	35	74	536
Sifter. Ash.	J. B. Chadbourn and E. Androvett.	569,745	Oct. 20	1823	432	77	372
Sifter. Ash.	S. C. Davis.	557,363	Mar. 31	3362	807	74	1830
Sifter. Ash.	J. W. Fee.	572,879	Dec. 8	1377	334	77	1561
Sifter. Ash.	J. N. Fordham.	569,041	Oct. 6	560	129	77	106
Sifter. Ash.	J. N. Grenier.	558,170	Apr. 14	1171	286	75	239
Sifter. Ash.	P. R. Krasel.	570,132	Oct. 27	2485	589	77	509
Sifter. Ash.	R. McWilliams.	553,013	Jan. 14	961	233	74	194
Sifter. Ash.	W. J. O'Neill.	559,596	May 5	419	100	75	784
Sifter. Ash.	B. M. Schauman.	561,947	June 9	1575	382	76	1692
Sifter. Ash.	R. S. Thwaite.	568,393	Sept. 29	2892	696	76	1878
Sifter. Ash.	P. A. Welch.	555,593	Mar. 3	182	43	74	1163
Sifter. Ash.	L. Youngquist and J. J. Jones.	561,304	June 2	426	105	75	1452
Sifter. Flour.	A. F. Darras.	566,144	Aug. 18	2180	530	76	1062
Sifter. Flour.	C. P. Eichler.	553,845	Feb. 4	58	12	74	516
Sifter for ashes, &c.	J. Bonowitz.	569,320	Oct. 13	1047	248	77	216

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Sifter or chop-grader.....	E. R. Draver.....	562,592	June 23	2680	648	75	1934
Sifter or chop-grader.....	H. C. Draver.....	560,575	May 19	2238	513	75	1162
Sifting and sorting flour, meal, &c. Machine for.....	D. R. Morrison.....	555,461	Feb. 25	2964	{ 706 707 }	74	1107
Sifting apparatus.....	E. R. Draver. (Reissue).....	11,555	July 7	823	196	76	153
Sifting machine.....	W. D. Gray.....	559,378	May 5	47	10, 11	75	689
Sifting machine.....	J. E. Mitchell.....	568,915	Oct. 6	333	77, 78	77	64
Sifting screen, &c.....	J. Areli.....	564,179	July 21	1676	392	76	341
Sight. Telescopic.....	B. A. Fiske.....	558,058	Apr. 14	997	243	75	204
Sight. Telescopic.....	B. A. Fiske.....	561,383	June 2	564	142	75	1479
Sights. Wind-gage for.....	L. M. Fuller.....	564,514	July 21	2223	522	76	440
Sign.....	J. A. Dalumi.....	567,379	Sept. 8	1156	277	76	1507
Sign and reflector therefor. Revolvable.....	H. F. Schwartz.....	563,898	July 14	975	252	76	199
Sign apparatus. Illuminated.....	J. U. Barr, Jr.....	573,436	Dec. 22	2429	576	77	1792
Sign-board.....	H. D. Woodworth.....	559,247	Apr. 28	3104	749	75	634
Sign. Display.....	A. Palmer.....	556,276	Mar. 10	1447	338	74	1416
Sign. Electric.....	W. Connell.....	572,158	Dec. 1	116	27	77	1300
Sign. Electric.....	F. H. Hawkins.....	573,088	Dec. 15	1765	424	77	1653
Sign. Electric.....	M. Norden.....	568,204	Sept. 22	2586	623	76	1804
Sign holder. Advertising.....	W. H. Bond and T. L. Barlow.....	554,857	Feb. 18	1870	440	74	888
Sign. Illuminated.....	C. L. Nason.....	569,764	Oct. 20	1854	439	77	377
Sign. Interchangeable electric.....	W. J. Scott and H. W. Shonnard.....	567,924	Sept. 15	2046	491	76	1693
Sign or other object.....	L. B. Wright.....	566,553	Aug. 25	2909	710	76	1218
Sign-shifter.....	A. White.....	552,860	Jan. 7	672	163	74	127
Signal-shifter.....	A. White.....	566,705	Aug. 25	3139	768	76	1259
Signal:							
See Air-brake signal. Railway-crossing signal.							
Automatic signal. Railway semaphore-sig-							
Block-signal. nal.							
Car-signal. Railway-station signal.							
Danger-signal. Selective signal.							
Electric signal. Switch-signal.							
Electric track-signal. Telephone-signal.							
Railway-signal. Telephone-circuit line-							
Railway block-sig- signal.							
nal. Train-signal.							
Signal and lock-out system. Selective.....	C. E. Scribner.....	559,869	May 12	950	213	75	875
Signal apparatus.....	J. P. Coleman.....	566,499	Aug. 25	2826	{ 688 689 }	76	1201
Signal apparatus.....	J. G. Schreuder.....	570,062	Oct. 27	2362	562	77	485
Signal apparatus. Coin-controlled.....	W. Gray.....	569,195	Oct. 13	820	192	77	172
Signal apparatus. Electric.....	G. Knowles.....	572,607	Dec. 8	913	{ 221 222 }	77	1471
Signal apparatus. Non-interfering.....	J. J. Ruddick.....	553,873	Feb. 4	106	23	74	525
Signal-box.....	C. W. Cornell.....	568,335	Sept. 29	2813	676	76	1862
Signal-box.....	J. J. Ruddick.....	561,525	June 2	837	202	75	1528
Signal-box.....	J. J. Ruddick.....	561,526	June 2	839	202	75	1528
Signal-box. Electric.....	W. W. Hibbard.....	571,441	Nov. 17	1796	429	77	1016
Signal-box. Non-interference.....	F. W. Cole.....	553,899	Feb. 4	39	9	74	511
Signal-box. Successive non-interference.....	F. W. Cole.....	553,898	Feb. 4	30	8, 9	74	510
Signal-box. Successive non-interference.....	F. W. Cole.....	553,840	Feb. 4	43	10	74	513
Signal-boxes. Local-alarm door for.....	F. W. Cole.....	552,746	Jan. 7	447	112	74	85
Signal compensator.....	D. F. Vaughan.....	564,351	July 21	1954	461	76	391
Signal holder. Pyrotechnic.....	W. F. Coston.....	570,458	Nov. 3	32	7	77	644
Signal-light.....	J. A. Carter and C. A. Williams.....	554,661	Feb. 18	1875	441	74	889
Signal-operating device.....	J. L. Keefe.....	567,716	Sept. 15	1712	411	76	1628
Signal-operating device. Pneumatic.....	T. M. Warner.....	556,449	Mar. 17	1767	410	74	1493
Signal pressure-head. Automatic.....	J. H. Winspear.....	572,495	Dec. 1	710	170	77	1413
Signal-receiving instrument. Electromagnetic.....	S. D. Field.....	571,351	Nov. 17	1646	{ 391 392 }	77	969
Signal-setting device.....	R. T. Kanski.....	557,275	Mar. 31	3205	{ 769 770 }	74	1798
Signal system. Electric police.....	C. E. Scribner.....	563,334	July 7	163	36	76	33
Signal system. Selective.....	C. E. Scribner.....	574,232	Dec. 29	3900	928	77	2078
Signal systems. Apparatus for selective.....	F. R. McBerty.....	563,294	July 7	102	24	76	22
Signal transmitters. Circuit for latent.....	F. B. Herzog.....	560,212	May 19	1595	361	75	1049
Signaling apparatus.....	J. F. Barker.....	560,675	May 26	2469	566	75	1220
Signaling apparatus.....	P. Lüpke.....	564,706	July 23	2561	606	76	521
Signaling apparatus.....	C. Oleson and J. D. Morrison.....	557,421	Mar. 31	3464	830	74	1849
Signaling apparatus.....	A. P. Smith.....	555,933	Aug. 18	1809	440	76	992
Signaling apparatus and system. Electric.....	M. B. Leonard.....	560,619	May 19	2312	529	75	1175
Signaling apparatus. Electric.....	M. Du Perow.....	563,025	June 30	3463	832	75	2105
Signaling apparatus. Electric.....	A. Garing.....	568,606	Sept. 29	3310	794	76	1954
Signaling apparatus. Electric.....	F. B. Herzog and S. S. Wheeler.....	573,221	Dec. 15	1996	480	77	1696
Signaling apparatus. Electric.....	F. B. Herzog and S. S. Wheeler.....	573,591	Dec. 22	2690	639	77	1842
Signaling apparatus. Electric.....	F. B. Herzog and S. S. Wheeler.....	573,592	Dec. 22	2696	640	77	1843
Signaling apparatus. Electric.....	T. G. Morse.....	559,397	May 5	87	18, 19	75	697
Signaling apparatus. Electric.....	F. W. Turner and W. M. Chapman.....	563,336	July 7	182	41	76	37
Signaling apparatus. Electrical.....	S. S. Bogart.....	563,442	July 7	351	81	76	68
Signaling apparatus. Electrical.....	G. E. Painter.....	559,039	Apr. 28	2674	{ 652 653 }	75	554
Signaling apparatus. Fog.....	D. Slade.....	571,203	Nov. 10	1398	327	77	927
Signaling apparatus. Pneumatic.....	S. P. Hull and J. H. Boylett.....	556,577	Mar. 17	1994	466	74	1535
Signaling apparatus. Pneumatic.....	F. Schieffler.....	571,315	Nov. 10	1590	377	77	963
Signaling. Automatic.....	J. P. Culpin.....	566,503	Aug. 25	2834	690	76	1202
Signaling by means of lights.....	A. Sellner.....	568,374	Sept. 29	2875	{ 691 692 }	76	1875
Signaling-circuit.....	J. J. O'Connell.....	555,707	Mar. 3	377	88	74	1197
Signaling device.....	H. L. Webb.....	566,951	Sept. 1	310	86	76	1353
Signaling device. Electric.....	G. F. Knollmann.....	567,984	Sept. 22	2174	523	76	1728
Signaling. Electric.....	F. G. Pratt.....	552,776	Jan. 7	506	{ 124 125 }	74	95
Signaling. Night.....	R. O. Crowley.....	568,838	Oct. 6	266	49	77	41
Signaling system.....	W. F. Larkins.....	552,820	Apr. 21	2288	556	75	463

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Signaling system. Electric.	J. P. Buchanan	571,507	Nov. 17	1917	457	77	1037
Signaling system. Pneumatic.	A. J. McGehee	569,120	Oct. 6	683	160	77	130
Signature-gatherer.	D. M. Smyth	565,145	Aug. 4	364	84, 85	76	685
Signature-gatherer.	D. M. Smyth	565,146	Aug. 4	366	85	76	685
Silk. Composition of matter for manufacturing artificial.	J. H. Du Vivier	563,214	June 30	3801		75	2169
Silk from mixed fibers. Separating.	G. M., 2d, and A. L. Rice	555,054	Feb. 18	2934		74	952
Silk holder. Skein.	T. J. Gleason	568,439	Sept. 29	2984	717	76	1894
Silk. Making artificial.	F. Lehner	559,392	May 5	76		75	695
Silk. Method of and composition for making artificial.	R. Langhans	571,530	Nov. 17	1952		77	1044
Silk. Preparing artificial.	F. Lehner	562,626	June 23	2730		75	1943
Silk. Process of and apparatus for making artificial.	F. Lehner	562,732	June 23	2914	707	75	1978
Single and double tree. Convertible.	T. B. Lyon	566,523	Aug. 25	2865	696	76	1209
Single or double tree.	R. Mannesmann	552,918	Jan. 14	808	197	74	165
Single-tree.	H. T. Foster	554,175	Feb. 4	690	155	74	631
Single-tree.	E. G. Fugate	567,230	Sept. 8	864	206	76	1456
Single-tree.	W. Loudon	562,547	June 23	2578	626	75	1915
Single-tree-hook.	J. E. Brenneisen	564,954	July 28	3001	714	76	600
Single-tree-hook.	F. M. Hunt	571,370	Nov. 17	1680	397	77	994
Sink and trap. Combined.	J. Johnston	555,485	Feb. 25	3006	716	74	1114
Sink-outlet.	H. Fischer and L. Schantz	563,030	June 30	3470	834	75	2107
Sink-trap.	B. H. Sanders	558,569	Apr. 21	1863	452	75	385
Sinks, &c. Support for.	L. Nichols	560,302	May 19	1766	402	75	1077
Siphon.	H. Focht	565,729	Aug. 11	1439	351	76	903
Siphon.	F. S. Hillhouse	556,416	Mar. 17	1703	397	74	1481
Siphon.	D. E. Rowland	554,792	Feb. 18	1754	413	74	865
Size. Painters'.	J. Clasen	570,122	Oct. 27	2470		77	506
Size. Paper-hanger's.	C. S. Weller	567,556	Sept. 8	1433		76	1558
Skate.	H. D. Carryl	572,500	Dec. 1	721	172	77	1415
Skate.	H. D. Carryl	572,501	Dec. 1	724	172	77	1415
Skate.	C. C. Reinhardt.	568,547	Sept. 29	3196	770	76	1932
Skate. Bicycle.	J. F. Bartlett	560,151	May 12	1477	333	75	975
Skate clamping mechanism.	E. H. Barney	565,715	Aug. 11	1404	342	76	897
Skate. Combined roller and ice.	F. P. Lund	566,271	Aug. 18	2371	580	76	1100
Skate. Roller.	G. T. Bond	572,403	Dec. 1	575	136	77	1387
Skate. Roller.	A. R. Fergusson	555,501	Mar. 3	30	8	74	1136
Skate. Roller.	H. W. Jones	567,346	Sept. 8	1095	264	76	1497
Skate. Roller.	H. W. Libbey	566,694	Aug. 25	3115	761	76	1256
Skate. Roller.	J. Schade	571,690	Nov. 17	2214	533	77	1091
Skate-sharpener.	A. D. Banker	555,299	Feb. 25	2669	625	74	1052
Skate-sharpener.	J. R. Roberts and E. F. Curry	555,974	Mar. 10	845	202	74	1307
Skate-wheel.	R. Reach	565,795	Aug. 11	1548	377	76	924
Skating-floor.	K. Mayer	557,077	Mar. 24	2831	674	74	1711
Skein-holder.	L. O. Smith	563,513	July 7	472	111	76	90
Skewer-pointing machine.	T. W. Hamlin	570,630	Nov. 3	394	93, 94	77	711
Skewers. Machine for pointing butchers'.	F. Harrison	568,677	Sept. 29	3447	825	76	1980
Skid-block.	L. H. Hicks	561,396	June 2	586	147	75	1483
Skid. Portable power.	H. E. Williams	573,630	Dec. 22	2784	659	77	1862
Skins, leather, &c. Machine for treating.	J. Hall	561,583	June 9	937	224	75	1572
Skins. Treating.	J. W. Peirson and F. A. T. Moor	555,050	Feb. 18	2928		74	951
Skipping-rope.	J. S. Donnellan	554,992	Feb. 18	2103	500	74	931
Skirt.	C. Cohn	573,765	Dec. 22	3013	714	77	1903
Skirt.	E. L. D. Forsyth	554,998	Feb. 18	2117	504	74	933
Skirt.	S. Haas	573,650	Dec. 22	2929	668	77	1868
Skirt. Athletic.	J. Huc	565,752	Aug. 11	1475	360	76	910
Skirt. Bicycle.	F. L. Ahern	566,369	Aug. 25	2567	627	76	1153
Skirt. Bicycle.	J. Berlefin and H. Diamond	580,079	May 12	1348	303	75	950
Skirt. Bicycle.	C. V. Berry	567,069	Sept. 1	594	138	76	1395
Skirt. Bicycle.	K. J. Cook	564,271	July 21	1828	428	76	368
Skirt. Bicycle.	E. H. Cooper	555,211	Feb. 25	2506	591	74	1021
Skirt. Bicycle.	J. H. Deutschman	557,495	Mar. 31	3590	860	74	1873
Skirt. Bicycle.	C. E. Dockham	556,881	Mar. 24	2502	590	74	1647
Skirt. Bicycle.	C. E. Dockham	568,339	Sept. 29	2823	679	76	1864
Skirt. Bicycle.	J. N. Lewinson	572,429	Dec. 1	612	145	77	1394
Skirt. Bicycle.	E. F. McCartney	562,140	June 16	1909	462	75	1774
Skirt. Bicycle.	A. M. McCauley	567,191	Sept. 8	802	189	76	1446
Skirt. Bicycle.	A. Sessler	555,535	Mar. 3	87	19	74	1146
Skirt-binding.	A. M. Weber	562,992	June 30	3411	819	75	2095
Skirt. Cycling.	A. L. Bygrave	555,428	Feb. 25	2894	689	74	1094
Skirt. Cycling.	P. B. Hercht	567,979	Sept. 22	2166	521	76	1727
Skirt-distender.	H. W. Bury	574,131	Dec. 29	3690	879	77	2041
Skirt. Divided.	L. Graner	563,764	July 14	897	214	76	124
Skirt. Divided.	H. Schlivinski	564,292	July 21	1861	435	76	374
Skirt for riding-habits.	A. S. Greenleaf	568,943	Oct. 6	385	87	77	74
Skirt-grip and belt-shaper.	J. Tatton	558,233	Apr. 14	1283	313	75	260
Skirt-holder.	K. D. Head	564,677	July 28	2528	598	76	515
Skirt-protector.	H. Feder	553,707	Jan. 28	2180	517	74	450
Skirt-protector.	D. Owen	562,738	June 23	2924	709	75	1980
Skirt. Riding.	H. Silverman	560,602	May 19	2286	524	75	1171
Skirt-slit holder.	C. Van Hoesen	573,729	Dec. 22	2962	701	77	1893
Skirt-supporter.	R. S. Asay	559,477	May 5	223	50	75	726
Skirt-supporter.	J. M. Davies	555,682	Mar. 3	341	78	74	1191
Skirt-supporter.	G. Kierski	574,248	Dec. 29	3949	938	77	2087
Skirt-supporter.	S. M. Smith	569,356	Oct. 13	1109	264	77	228
Skiving-machine.	M. Chase and M. H. Foster	572,083	Nov. 24	2960	696	77	1251
Skylight and ventilator.	D. Landstra	556,892	Mar. 24	2525	594	74	1651
Skylight fastener and raiser.	G. M. Parsons	568,271	Sept. 22	2698	646	76	1826
Skylight-support.	C. Escher	568,194	Sept. 22	2573	619	76	1801

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. gr.	Vol.	Page.
Slack-moving apparatus	W. W. Wainwright and E. D. Johnston.	560,381	May 19	1909	434	75	1103
Slag-buggy-train coupling	J. L. Thomson	573,724	Dec. 22	2952	698	77	1891
Slag in its molten state. Desulfurizing blast-furnace	A. D. Elbers	558,370	Apr. 14	1510	.....	75	303
Slate-cutting machine	S. D. Van Pelt	562,051	June 16	1757	425	75	1746
Slate. Drawing	H. A. Mishler	564,211	July 21	1723	403	76	350
Slate-picker	J. D. Missroon	560,858	May 26	2796	642	75	1283
Slate-picker	D. E. Phillips	572,661	Dec. 8	1004	{ 242 } { 243 }	77	1489
Slate. School-	F. A. Ouvrard	552,584	Jan. 7	140	39	74	98
Slatting compound	W. H. Brawley	569,004	Oct. 6	502	.....	77	96
Sled	E. Dore	569,621	Oct. 20	1574	370	77	328
Sled	B. F. Hook	569,459	Oct. 13	1268	299	77	256
Sled	A. Peterson	565,143	Aug. 4	362	84	76	684
Sled. Bob-	M. D. Pendergast	558,836	Apr. 21	2314	563	75	468
Sled. Hand-	F. E. Southard	557,346	Mar. 31	3333	800	74	1824
Sled. Logging-	J. L. Nylander	570,677	Nov. 3	481	113	77	728
Sled. Power-	J. W. H. and M. C. Runnoe	557,085	Mar. 24	2844	680	74	1714
Sled-propeller	W. A. Bradley	556,613	Mar. 17	2051	480	74	1544
Sled-propeller	W. J. Culnan	554,582	Feb. 11	1380	{ 324 } { 325 }	74	778
Sled-propeller	H. H. Homer	569,201	Oct. 13	830	195	77	174
Sled-propeller	J. C. Robertson	572,568	Dec. 8	844	{ 202 } { 203 }	77	1458
Sled-runner coupling	S. Yates	553,951	Feb. 4	276	61	74	555
Sleeve-adjuster	S. Lee	562,838	June 30	3120	755	75	2035
Sleeve-holding device	P. L. Jacobson	556,503	Mar. 17	1875	437	74	1513
Sleeve-protector	J. P. Reily	569,471	Oct. 13	1286	303	77	259
Sleeve-protector	J. P. Reily	569,472	Oct. 13	1287	303	77	259
Sleigh	J. Bellinger	555,555	Mar. 3	124	28	74	1153
Sleigh	H. E. Capron	554,771	Feb. 18	1716	402	74	858
Sleigh	W. L. Haag	558,556	Apr. 21	1832	446	75	380
Sleigh	J. Jensen	565,003	Aug. 4	73	17, 18	76	631
Sleigh	T. G. Mandt	561,012	May 26	3048	701	75	1331
Sleigh	B. F. Sweet	556,783	Mar. 24	2341	552	74	1616
Sleigh	B. F. Sweet	560,072	May 12	1337	300	75	948
Sleigh	G. W. Williams	554,328	Feb. 11	952	220	74	696
Sleigh	C. Zimmerman	568,935	Oct. 6	367	84	77	71
Sleigh. Bob-	J. Clayton	571,647	Nov. 17	2147	515	77	1079
Sleigh-brake	A. Mecham	553,417	Jan. 21	1677	399	74	342
Sleigh-knee	I. Robbins	567,047	Sept. 1	557	130	76	1387
Sleigh-knee	F. D. Smith	562,256	June 16	2097	508	75	1809
Sleigh-knee	H. and H. Wesle	572,847	Dec. 8	1333	321	77	1552
Sleigh-runner	O. A. Moe	555,580	Mar. 3	162	38	74	1160
Sleigh-runner	W. Sibbrel	553,215	Jan. 14	1321	321	74	262
Sleigh-runner	J. R. Sjolander	569,011	Oct. 6	510	115	77	97
Slicer. Fruit or vegetable	J. B. Stewart	553,271	Jan. 21	1424	345	74	296
Slicer. Vegetable-	C. H. Anspach	564,962	Aug. 4	4	2	76	617
Slicer. Vegetable-	E. Jacobi	562,613	June 23	2712	{ 656 } { 657 }	75	1940
Slicer. Vegetable-	C. B. Struble and C. S. Turner	557,914	Apr. 7	686	164	75	130
Slide and lake and conveyer therefor. Artificial	C. A. Idler	572,426	Dec. 1	608	144	77	1393
Sliding and swinging gate	A. J. Russell	562,085	June 16	1732	419	75	1742
Sliding gate	L. Dearth	571,343	Nov. 17	1635	388	77	96
Sliding gate	H. Grover	560,352	May 19	1857	423	75	1093
Sliding gate	J. O. Moss	560,860	May 26	2798	{ 642 } { 643 }	75	1284
Sling support and tripping device	A. Broussard	572,522	Dec. 8	762	181	77	1438
Sling-trip	H. Nadler and B. C. Le Blanc	571,074	Nov. 10	1176	276	77	885
Slitting-machine	J. D. Riggs	560,231	May 19	1636	372	75	1055
Sliver-forming machine	T. E. Phillips	557,427	Mar. 31	3477	833	74	1852
Slot-machine	C. F. Neubert	567,626	Sept. 15	1661	400	76	1618
Slubbing or roving frames. Jack or apparatus for insuring differential motion on	E. and S. Tweedale and J. Smalley	572,917	Dec. 8	1446	348	77	1576
Slug or nail strip	H. H. Buffum	560,968	May 26	2983	685	75	1318
Smelting-furnace	H. Charlier	570,981	Nov. 10	1009	{ 234 } { 235 }	77	855
Smelting-furnace	C. Cunningham, Jr	555,680	Mar. 3	340	78	74	1190
Smelting-furnace	H. Huber	572,011	Nov. 24	2805	661	77	1222
Smelting-furnace. Brass-	R. Baumann	567,371	Sept. 8	1144	274	76	1505
Smelting-furnace. Electric	J. A. Vincent	567,699	Sept. 15	1683	405	76	1622
Smelting-furnace. Ore	E. E. Lungwitz	555,961	Mar. 10	827	196	74	1304
Smelting-furnace. Oxidizing pyrite	J. S. Loder	567,986	Sept. 22	2177	524	76	1729
Smelting lead ores	J. David and C. Le Doux	559,935	May 12	1078	.....	75	898
Smelting galena	C. V. Petraeus	556,691	Mar. 17	2162	.....	74	1567
Smoke and cinder conveyer	W. H. Larimore	570,315	Oct. 27	2866	{ 679 } { 680 }	77	579
Smoke and cinder conveyer	M. J. Wyatt	564,298	July 21	1867	{ 437 } { 438 }	76	375
Smoke-bleaching cap for chimneys	J. T. Sands	565,036	Aug. 4	131	31	76	642
Smoke-condenser	S. S. Pridham	554,348	Feb. 11	982	228	74	701
Smoke-consumer	C. M. Armstrong	570,533	Nov. 3	175	47	77	670
Smoke-consumer	W. E. Cole	570,001	Oct. 27	2257	536	77	464
Smoke-consumer	J. M. Estes	557,093	Mar. 24	2862	684	74	1717
Smoke-consumer	R. W. Hamann and J. Voegeli	563,483	July 7	423	98	76	82
Smoke-consumer	J. M. Kohne	570,731	Nov. 3	577	{ 132 } { 133 }	77	745
Smoke-consumer	M. Richter	553,542	Jan. 28	1899	{ 449 } { 450 }	74	399
Smoke-consumer	W. C. Welsh	558,885	Apr. 21	2403	{ 585 } { 586 }	75	485
Smoke-consuming device	J. C. Dias	567,964	Sept. 22	2137	515	76	1722
Smoke-consuming device	G. W. Lord	552,847	Jan. 7	649	159	74	122

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec	Dr &g	Vol.	Page
Smoke-consuming furnace	G. A. Bell	573,385	Dec. 15	2295	{ 548 549	77	1750
Smoke-consuming furnace	J. H. Crosby	571,752	Nov. 24	2352	{ 562 563	77	1137
Smoke-consuming furnace	P. Fleming and W. J. Walsh	566,674	Aug. 25	3080	{ 552 553	76	1251
Smoke-consuming furnace	J. W. Hogan	572,896	Dec. 8	1399	{ 338 339	77	1565
Smoke-consuming furnace	F. J. Reinisch	564,649	July 28	2473	{ 5-3	76	504
Smoke-consuming furnace	J. M. Thomas	565,307	Aug. 4	662	{ 159	76	738
Smoke separator and conveyer	W. F. Kintner	560,219	May 19	1612	{ 363	75	1051
Smoke-stack	C. Pickring	570,144	Oct. 27	2508	{ 594	77	513
Smokeless powder	F. A. Halsey	568,902	Oct. 6	315	{ 99	77	61
Smoking-tube	L. H. Sondheim	561,288	June 2	393	{ 99	75	1447
Smoking-tube	J. Vester	573,064	Dec. 15	1718	{ 412	77	1644
Smoothing-iron	F. M. Fournier	554,176	Feb. 4	691	{ 155	74	632
Smoothing-surface. Electrically-heated	W. S. Hadaway, Jr.	567,976	Sept. 22	2160	{ 520	76	1726
Snap. Harness	W. A. Schleicher	563,071	June 30	3562	{ 855	75	2124
Snap. Harness	J. D. Tucker	559,233	Apr. 28	3079	{ 743	75	630
Snap-book	G. M. Hubbard	554,489	Feb. 11	1230	{ 288	74	741
Snap-book	J. T. Malley	552,695	Jan. 7	344	{ 91	71	67
Snap-book	J. Reichert	553,017	Jan. 14	968	{ 234	74	195
Snap-book	J. H. Shaw	553,137	Jan. 14	1178	{ 286	74	237
Snap-book	J. H. Shaw	553,432	Jan. 21	1701	{ 406	74	346
Snap-book	C. H. Smith	566,543	Aug. 25	2897	{ 706	76	1215
Snap-book	S. M. Stilson	565,520	Aug. 11	1064	{ 255	76	833
Snap-book	W. G. Tower	553,795	Jan. 28	2319	{ 550	74	477
Snap-book	L. A. Walker	559,640	May 5	496	{ 114	75	777
Snap hook and buckle. Combined	J. W. Crandall	570,277	Oct. 27	2751	{ 655	77	559
Snap-hooks to straps. Means for attaching	J. W. Lockert	554,282	Feb. 11	870	{ 200	74	681
Snap-switch	J. S. Gibbs	557,198	Mar. 31	3069	{ 736	74	1774
Snap-switch	G. W. Hart	569,332	Oct. 13	1067	{ 253	77	220
Snap-switch	A. B. Herrick	556,185	Mar. 10	1256	{ 293	74	1381
Snap-switch	A. B. Herrick	570,172	Oct. 27	2553	{ 607	77	523
Snatch-block	T. R. Ferrall	560,134	May 12	1449	{ 326	75	971
Snow and ice melting apparatus	C. F. Springfels	557,163	Mar. 31	2987	{ 713 714	74	1763
Snow-cleaning apparatus	G. B. Siccardi	556,648	Mar. 17	2098	{ 491	74	1554
Snow from roadways. Apparatus for removing	A. R. Rosenberger	562,978	June 30	3387	{ 815	75	2091
Snow-guard	M. Clason	572,332	Dec. 1	436	{ 102	77	1362
Snow-guard	H. M. Esselcu	558,678	Apr. 21	2055	{ 495	75	419
Snow-guard	C. H. Gilman	557,797	Apr. 7	492	{ 118	75	94
Snow-melting cart	F. X. von Garnier	553,401	Jan. 21	1648	{ 394	74	336
Snow-melting machine	B. S. Crag	557,976	Apr. 7	801	{ 191	75	151
Snow or dirt collecting and dumping machine	C. G. Ottersten	572,213	Dec. 1	209	{ 51	77	1318
Snow or ice melting apparatus	R. Ripley	559,217	Apr. 28	3059	{ 737 738	75	626
Snow-plow	A. B. Black	573,854	Dec. 29	3166	{ 755	77	1947
Snow-plow	C. L. Coates	552,891	Jan. 14	744	{ 181 182	74	153
Snow-plow	A. Even	572,747	Dec. 8	1172	{ 281 282	77	1520
Snow-plow	T. A. Fick	561,980	June 16	1634	{ 398	75	1724
Snow-plow	W. Leatch	557,995	Apr. 7	859	{ 216	75	161
Snow-plow	W. F. Wheeler	568,507	Sept. 29	3102	{ 747 748	76	1916
Snow-plow and rutter	D. J. McGregor	572,212	Dec. 1	208	{ 51	77	1317
Snow-plow. Electric	H. H. Kryger	556,315	Mar. 10	1515	{ 352	74	1429
Snow-plow. Road	G. O. Spencer	569,249	Oct. 13	924	{ 221	77	192
Snow-plow. Street-railway	M. Hoffman	564,998	Aug. 4	67	{ 16	76	630
Snow-plow, sweeper, scraper, and sprinkler for car-tracks	W. Grunow, Jr.	573,511	Dec. 22	2553	{ 605 606	77	1815
Soaking-pits. Apparatus for operating	P. T. Berg	569,485	Oct. 13	1309	{ 308	77	263
Soap	S. Andersen	556,726	Mar. 24	2231	{ 2231	74	1597
Soap and sponge holder	O. H. Huebel and F. W. Manger	553,241	Jan. 21	1367	{ 332	74	285
Soap. Apparatus for producing designs in cakes of	B. F. Bergh	569,604	Oct. 20	1545	{ 363	77	323
Soap. Apparatus for solidifying liquid	F. S. Rutschman	567,006	Sept. 1	484	{ 112	76	1373
Soap cake	L. S. Samuel	555,663	Mar. 3	314	{ 73	74	1186
Soap-cup and holder for washbasins. Combined	T. S. Heineken	572,635	Dec. 8	964	{ 232	77	1481
Soap-cup. Movable	O. H. Huebel	553,467	Jan. 21	1758	{ 419	74	357
Soap cup or holder	J. Schwechler and O. Ingram	564,540	July 21	2266	{ 532	76	448
Soap. Electrical	H. E. Rider	564,717	July 28	2577	{ 610	76	524
Soap. Fluorescent	S. Neumann	564,835	July 28	2785	{ 76	76	560
Soap-frame	C. W. Gates	573,459	Dec. 22	2471	{ 586	77	1800
Soap-holder	O. H. Huebel	570,666	Nov. 3	466	{ 109	77	725
Soap-holder	H. G. Rounds	562,033	June 16	1723	{ 418	75	1741
Soap-holding attachment	A. E. C. Gilmour	553,751	Jan. 28	2259	{ 535	74	466
Soap-lyes. Electrolytic treatment of	O. Lugo and H. T. Jackson	558,970	Apr. 28	2557	{ 620	75	532
Soap. Making	L. Gottschalk	573,054	Dec. 15	1759	{ 77	77	1652
Soap-mottling apparatus	A. Kunkel	563,186	June 30	3752	{ 898	75	2160
Soap powder. Making	S. V. Harbaugh	569,154	Oct. 6	756	{ 77	77	143
Soap-pressing machine	J. Watson	554,753	Feb. 18	1677	{ 395	74	851
Soda. Process of and apparatus for making carbonates of	T. Craney	552,895	Jan. 14	767	{ 186	74	157
Soap. Process of and apparatus for molding	J. Clark	567,734	Sept. 15	1742	{ 417 418	76	1634
Soap reservoir. Liquid	E. Lee	570,935	Nov. 10	939	{ 218	77	842
Soap slabbing and cutting machine	T. W. Alexander	567,438	Sept. 8	1249	{ 301 302	76	1525
Soap-slabbing machine	R. P. Dunn	564,507	July 21	2210	{ 518 519	76	438
Soap-tablet hanger	S. J. Wiseman	563,635	July 7	671	{ 157	76	126
Socket-wrench. Adjustable	R. McDonald	567,405	Sept. 8	1199	{ 287	76	1516
Soda-fountain jars. Tilting appliance for	C. H. Duffield	573,453	Dec. 22	2461	{ 583 584	77	1798

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Soda-fountains. Device for supplying salts for.....	F. H. Lippincott.....	574,156	Dec. 29	3733	890	77	2048
Soda-water apparatus.....	C. F. Kade.....	557,274	Mar. 31	3304	769	74	1798
Soda-water-dispensing apparatus.....	C. A. Geddes.....	569,633	Oct. 20	1599	378	77	333
Soda-water fountain.....	C. H. Bolend.....	559,435	May 5	156	34	75	711
Soda-water fountain.....	J. F. Huber.....	555,446	Feb. 25	2937	697	74	1101
Sodium bicarbonate from roaster-ash. Making.....	J. Hawliczek.....	574,069	Dec. 29	3613	864	77	2028
Sodium bicarbonate. Process of and apparatus for manufacture of.....	T. Craney.....	552,955	Jan. 14	871	211	74	177
Sodium chlorid. Treatment of.....	J. Meyrueis.....	560,518	May 19	2137	488 489	75	1143
Sofa. Folding.....	C. A. Metcalfe.....	564,154	July 14	1622	380	76	319
Sofa or lounge.....	S. C. Baucum and A. T. Ball.....	569,163	Oct. 13	769	179	77	163
Solder for soldering aluminium.....	G. Hammond.....	572,200	Dec. 1	181		77	1313
Solder machine. Wire.....	L. Dyer.....	553,187	Jan. 14	1274	308	74	253
Soldering-block.....	V. H. Ballard.....	567,674	Sept. 15	1641	396	76	1615
Soldering caps on cans. Machine for.....	M. J. Hawkins.....	568,849	Oct. 6	228	53 54 55	77	45
Soldering-clamp. Plumber's.....	M. Slotkin.....	555,624	Mar. 3	236	56	74	1173
Soldering-club. Electric.....	P. Stotz and F. W. Schindler-Jenny.....	573,245	Dec. 15	2037	488	77	1703
Soldering compound.....	L. Pauwels.....	559,809	May 12	822		75	852
Soldering-iron.....	R. C. Becker.....	558,759	Apr. 21	2188	526	75	445
Soldering-iron. Electric.....	F. H. Date, J. Heffron, J. Scudder, and B. H. Scranton.....	565,137	Aug. 4	345	82	76	682
Soldering machine. Can.....	J. L. Ashley and W. E. McDermott.....	567,442	Sept. 8	1258	304	76	1526
Soldering machine. Can.....	J. B. Clot.....	559,073	Apr. 28	2732	664 665	75	564
Soldering machine. Can.....	J. B. Clot.....	559,074	Apr. 28	2735	665	75	564
Soldering machine. Can.....	M. Jensen.....	555,247	Feb. 25	2569	603	74	1033
Soldering machine. Can.....	G. E. Lockwood.....	555,782	Mar. 3	484	116 117	74	1218
Soldering machine. Can.....	W. J. and E. Phelps.....	573,035	Dec. 15	1661	399	77	1634
Soldering machine. Can.....	G. T. Pillings.....	569,765	Oct. 20	1856	439 440	77	377
Soldering machine. Can.....	W. H. Smyth.....	573,423	Dec. 15	2376	567 568	77	1764
Soldering machine. Can.....	J. Solter.....	554,151	Feb. 4	645	146	74	623
Soldering machine. Can.....	N. Troyer.....	571,627	Nov. 17	2113	507 508 848 849 850 851	77	1073
Soldering machine. Can-body.....	H. Schaake.....	563,069	June 30	3530	852 853 854	75	2118
Soldering machine. Can-end.....	A. Johnson.....	566,079	Aug. 18	2062	502	76	1041
Soldering plates of iron or steel with sheets of copper or its compositions. Apparatus for.....	E. W. Enquist.....	557,979	Apr. 7	800	193	75	152
Soldering tin cans. Apparatus for.....	O. Aache.....	552,809	Jan. 7	588	142	74	110
Soldering tool.....	E. M. Lang, Jr.....	559,337	Apr. 28	3256	787	75	662
Sole and heel spring for boots or shoes.....	G. E. Swan.....	562,748	June 23	2942	713	75	1984
Sole-beating-out machine. Shoe.....	C. E. Howe.....	563,487	July 7	429	99	76	82
Sole-cutting machine.....	D. F. Hartford.....	568,757	Oct. 6	82	19	77	18
Sole-cutting machine.....	J. J. Heyes.....	555,864	Mar. 3	631	151 152	74	1246
Sole-cutting machine.....	J. M. Holladay.....	553,069	Jan. 14	1056	258 259 368 370	74	212
Sole-cutting machine.....	A. E. Lincoln.....	560,224	May 19	1625	369 370	75	1053
Sole-cutting machine. Block.....	D. T. Knox.....	558,964	Apr. 28	2545	617	75	529
Sole-edge-burnishing machine.....	C. S. Stackpole.....	562,860	June 30	3159	765	75	2042
Sole-edge finishing and ornamenting machine.....	E. F. Mower.....	567,251	Sept. 8	895	214	76	1462
Sole-laying machine.....	E. E. Winkley.....	553,948	Feb. 4	269	59	74	554
Sole-laying machine.....	E. E. Winkley.....	553,949	Feb. 4	271	60	74	555
Sole-laying machine.....	E. E. Winkley.....	557,744	Apr. 7	401	94, 95	75	76
Sole-laying machines. Pressing-form for.....	E. E. Winkley.....	573,069	Dec. 15	1725	414	77	1646
Sole-leveling machine.....	E. C. Judd.....	554,067	Feb. 4	473	106 107 169	74	592
Sole-leveling machine.....	E. C. Judd and H. E. Cilley.....	563,666	July 7	718	170 171 172	76	135
Sole-leveling machine.....	A. K. Washburn.....	561,035	May 26	3091	712 713	75	1339
Sole-leveling machine.....	E. E. Winkley.....	555,548	Mar. 3	108	24, 25	74	1150
Sole-leveling machine.....	E. E. Winkley and B. Phillips.....	558,888	Apr. 21	2410	587	75	487
Sole-leveling machines. Adjusting device for.....	E. E. Winkley.....	555,547	Mar. 3	106	24	74	1150
Sole-machine jack.....	E. E. Winkley.....	573,068	Dec. 15	1724	414	77	1645
Sole-molding apparatus.....	G. W. Rodgrass.....	569,979	Oct. 20	2210	525	77	443
Sole-nail.....	H. Weeks.....	572,937	Dec. 8	1489	357	77	1563
Sole-nailing machine.....	H. Weeks and J. E. Tuttle.....	566,359	Aug. 25	2547	622 623 624	76	1149
Sole or heel.....	J. H. Borrett.....	555,558	Mar. 3	128	29	74	1154
Sole or heel plate.....	W. Frost.....	567,463	Sept. 8	1290	313	76	1532
Sole-rounding machine.....	J. A. Crosbie.....	564,148	July 14	1604	376 377	76	316
Sole-rounding machine.....	L. E. Ericson.....	559,575	May 5	381	92	75	757
Sole-rounding machine.....	G. Julian.....	555,009	Feb. 18	2138	509	74	936
Sole-rounding machine.....	L. M. Todd and J. J. Leary.....	558,004	Apr. 7	878	221 222	75	165
Sole-splitting machine.....	F. J. Freese.....	570,164	Oct. 27	2540	604	77	520

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & E.	Vol.	Page
Sole-trimming machine	J. B. Emery	572,878	Dec. 8	1375	333	77	1561
Soles. Carriage for rounding-out machines for boot or shoe	A. C. Winn	555,718	Mar. 3	395	92	74	1200
Soles. Rounding-out and channeling machine for boot or shoe	A. C. Winn	558,007	Apr. 7	889	223 224	75	167
Soles. Rounding-out machine for boot or shoe	A. C. Winn	564,169	July 14	1658	387 388	76	324
Sorting-machine	C. G. Poulson, Jr.	557,877	Apr. 7	621	148	75	117
Sound-conducting device	D. and E. R. Darrah	566,145	Aug. 18	2122	530	76	1063
Sound-locating instrument	D. P. Heap	564,926	July 28	2945	702 703	76	591
Sounding and drawing profiles of beds of rivers, &c. Machine for	R. McDowall	572,610	Dec. 8	923	223	77	1473
Sounding combs. Means for	A. Herrling	572,055	Nov. 24	2888	681	77	1238
Sounding device	F. W. G. Boettcher	571,639	Nov. 17	2137	513	77	1077
Spade. Ditching	L. Iwan	573,597	Dec. 22	2706	642	77	1846
Spade or fork. Digging	W. W. Hopper	567,391	Sept. 8	1177	281	76	1511
Spading-machine	F. Holzhauer	560,013	May 12	1259	283	75	934
Spanner	L. Mills	554,522	Feb. 11	1279	300	74	756
Spark-arrester	G. A. Anderson	555,297	Feb. 25	2666	624	74	1051
Spark-arrester	J. T. Bright	561,695	June 9	1127	268	75	1608
Spark-arrester	J. T. Bright	568,735	Oct. 6	31	7	77	9
Spark-arrester	T. Lee	567,601	Sept. 15	1521	366	76	1590
Spark-arrester	M. E. Loeher	560,361	May 19	1868	426	75	1095
Spark-arrester	E. J. Solomon	553,079	Jan. 14	1078	263	74	216
Spark-arrester and draft-regulator. Combined	R. Deissler	570,984	Nov. 10	1012	236	77	855
Spark-guard, &c.	R. A. Dennison	566,846	Sept. 1	190	43	76	1318
Speaking-tube	C. A. Bartliff	553,825	Feb. 4	6	2	74	506
Speaking-tube	G. W. Buck	565,602	Aug. 11	1203	289	76	858
Speaking-tube	H. W. Libbey	572,264	Dec. 1	302	72	77	1337
Speaking-tube	W. Perpete	564,898	July 28	2886	692	76	579
Spectacle-case and holder for pencils, pens, &c.	W. A. Johnston	571,373	Nov. 17	1626	399	77	995
Spectacle-frame	R. J. Kirkland	562,729	June 23	2911	706	75	1978
Spectacle or eyeglass case	W. Zoerb	565,528	Aug. 11	1076	258	76	835
Spectacles	J. T. Meredith	569,462	Oct. 13	1272	299	77	257
Spectacles	S. N. Stone	557,448	Mar. 31	3504	837	74	1857
Spectacles or eyeglasses. Frameless	W. S. Essick	572,107	Dec. 1	18	5	77	1281
Spectacles or eyeglasses. Frameless	W. S. Essick and C. S. Rees	570,625	Nov. 3	384	91	77	709
Spectacles. Repair-clamp for	S. Chase	555,496	Mar. 3	24	6	74	1134
Speculum	V. W. Gilbert	557,664	Apr. 7	261	62	75	49
Speculum	F. W. Penhall	563,236	June 30	3835	919	75	2175
Speed altering or adjusting mechanism for shaft-governors.	J. and H. McLaren	569,512	Oct. 13	1369	321	77	274
Speed and direction indicator	G. A. Tower	564,168	July 14	1656	387	76	324
Speed and distance indicator	E. Butikofer	558,351	Apr. 14	1472	361	75	296
Speed-changing mechanism	G. B. Woodruff and T. W. R. McCabe	560,958	May 26	2972	682	75	1316
Speed friction-gear. Variable	C. Seybold	570,235	Oct. 27	2670	635	77	544
Speed-gear	M. Hopkins	570,638	Nov. 3	404	96, 97	77	713
Speed gearing. Changeable	J. L. Bogert	554,047	Feb. 4	444	98	74	586
Speed gearing. Changeable	J. L. Bogert	568,064	Sept. 22	2339	5, 6	76	1757
Speed-governor for motors	J. Dow	555,438	Feb. 25	2919	693 694	74	1098
Speed-governor. Marine-engine	O. Jones	564,079	July 14	1489	348 349	76	292
Speed-indicating alarm	B. F. Card	569,171	Oct. 13	779	182	77	165
Speed-indicating alarm	B. F. Card	573,568	Dec. 22	2652	630	77	1834
Speed-indicating alarm	J. W. Darley, Jr.	555,853	Mar. 3	611	146 147	74	1242
Speed-indicating alarm	W. G. Latimer	553,121	Jan. 14	1158	241	74	232
Speed-indicator	T. O. Bateman	563,544	July 7	521	120	76	99
Speed-indicator	H. J. Boon	557,954	Apr. 7	762	182	75	143
Speed-indicator	A. B. Holson	561,052	May 26	3116	718	75	1344
Speed-indicator	J. Roginger	553,724	Jan. 28	2215	525	74	457
Speed-indicator	H. Schlotfeldt	574,076	Dec. 29	3586	856 857	77	2023
Speed-indicator	C. Spratt	568,046	Sept. 22	2298	557	76	1750
Speed-indicator	G. White	559,650	May 5	516	118	75	780
Speed-indicator. Vehicle	J. M. Kane and J. H. MacLauchlan	559,060	Apr. 28	2711	659 660	75	560
Speed-measure	A. B. Holson	561,053	May 26	3118	718	75	1344
Speed-measure	H. H. Kelley	570,024	Oct. 27	2291	544	77	472
Speed-measure	L. S. Starrett	557,446	Mar. 31	3501	837	74	1857
Speed-measure	G. S. Wright and H. P. Terry	557,245	Mar. 31	3160	758	74	1791
Speed measure and alarm	G. E. Kastengren	555,775	Mar. 3	476	114	74	1216
Speed-measure for vehicles	W. H. Shaw	558,315	Apr. 14	1423	349	75	287
Speed-measure. Vehicle	H. J. Boon	567,260	Sept. 8	920	220	76	1466
Speed mechanism. Changeable	H. D. Weed	565,819	Aug. 11	1585	387	76	930
Speed mechanism. Variable	L. T. Pyott	571,395	Nov. 17	1717	409	77	1001
Speed-modifying apparatus	F. H. Richards	561,520	June 2	812	198	75	1524
Speed of differential gearing. Means for changing	L. W. Penney	557,695	Apr. 7	302	72, 73	75	57
Speed of electromotors. Apparatus for varying	L. Imhoff	573,979	Dec. 29	3420	820	77	1992
Speed of machinery. Governor for regulating	E. Thunderbolt	567,366	Sept. 8	1138	273	76	1504
Speed-recorder	J. Spence, Jr.	559,627	May 5	474	110	75	773
Speed-reducing driving mechanism	F. H. Richards	553,317	Jan. 21	1541	362	74	310
Speed-regulator. Dynamo	C. E. Scribner	563,316	July 7	144	33, 34	76	30
Speed-regulator. Dynamo	C. E. Scribner	563,317	July 7	146	34	76	31
Speed-regulator for electromotors. Automatic	L. Denayrouze	573,767	Dec. 22	3017	714 715	77	1904
Speed-regulator for gas-engines	E. Capitaine	573,642	Dec. 22	2906	664	77	1865
Speed-varying mechanism	W. Corliss	569,369	Oct. 13	1128	269	77	232
Spelling-block	R. W. Foster	557,307	Mar. 31	3261	782	74	1809
Spice-mill	F. H. Robbins	554,376	Feb. 11	1027	238	74	711
Spigot	H. Staub and C. Duerst	560,070	May 12	1335	299	75	948
Spike	R. W. Beidleman	560,186	May 19	1549	350	75	1040
Spike	T. McCherry	555,965	Mar. 10	833	198	74	1305

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Spike	G. Milner	563,050	June 30	3497	840	75	2112
Spike-extractor	J. W. Pitts	558,102	Apr. 14	1067	262	75	219
Spike-extractor	A. Welsh	571,816	Nov. 24	2457	584	77	1158
Spike-extractor	A. Welsh	573,943	Dec. 29	3332	796	77	1977
Spike-extractor and railway-tie lifter	O. E. Dunaway and D. N. Jones	569,552	Oct. 13	1437	339	77	287
Spike or bolt drawing tool	H. N. Lewis	558,968	Apr. 28	2553	619	75	530
Spike or bolt puller	A. Welsh	571,815	Nov. 24	2456	584	77	1157
Spindle	H. E. Hughes	570,996	Nov. 10	1036	243	77	860
Spindle	H. E. Hughes	570,997	Nov. 10	1038	243	77	860
Spindle	E. and S. Tweedale and J. Smalley	564,905	July 28	2895	694	76	581
Spindle and bearing	E. J. Carroll	567,219	Sept. 8	845	200	76	1453
Spindle and bearing	M. Moriarty, Jr	558,828	Apr. 21	2303	559	75	465
Spindle-blades and whirls. Apparatus for assembling	G. M. Burgess	570,375	Oct. 27	2959	702	77	597
Spindle-driving mechanism	E. Atwood	567,064	Sept. 1	579	135	76	1391
Spindle ends. Apparatus for grinding	F. Ashton	566,122	Aug. 18	2143	522	76	1056
Spindle sleeves. Bearing for dead-	J. W. and H. Collins	560,393	May 19	1930	441	75	1106
Spindle-support	A. Gartner	570,205	Oct. 27	2615	621	77	534
Spindle-support	T. Gorman	567,973	Sept. 22	2151	517	76	1724
Spindle-support	E. Hitchon	554,514	Feb. 11	1267	297	74	756
Spindle-support	A. Scheid	555,129	Feb. 25	2370	563	74	996
Spindle-support	A. Scheid	561,345	June 2	503	126	75	1466
Spindle supporting and driving device	J. Duffy	566,247	Sept. 1	191	43	76	1319
Spindle-supporting device	R. Atherton. (Reissue)	11,521	Jan. 14	1330	323	74	263
Spindles. Latch for retaining cylinders on	I. Johnson and A. Fyrberg	566,399	Aug. 25	2626	641	76	1164
Spinning and doubling machine. Combined	E. E. Bradley	567,074	Sept. 1	603	140 141	76	1397
Spinning and doubling machines. Thread-guide for	E. and S. Tweedale and J. Smalley	563,696	July 7	773	182	76	145
Spinning and twisting frame	J. Gregson and C. J. Murray	573,649	Dec. 22	2827	667 668	77	1868
Spinning and twisting frame	H. D. Martin and J. P. Tolman	566,204	Aug. 18	2273	556	76	1081
Spinning and twisting frame separator	H. D. Martin and J. P. Tolman	566,205	Aug. 18	2277	557	76	1082
Spinning and twisting machine	R. Dawes	554,217	Feb. 4	747	170	74	642
Spinning and twisting machine	J. T. Meats and A. Mason	555,323	Feb. 25	2713	636	74	1060
Spinning and twisting spindle support	A. R. Sherman	562,668	June 23	2796	679	75	1956
Spinning fibrous materials. Apparatus for	N. Cupers. (Reissue)	11,524	Feb. 25	3007	716 717	74	1114
Spinning-frame	W. D. Rosencrantz	573,925	Dec. 29	3303	789	77	1971
Spinning-frame builder mechanism	C. Whitaker	567,930	Sept. 15	2060	494 495	76	1695
Spinning frame. Ring	S. H. Dubois	570,986	Nov. 10	1017	237	77	856
Spinning-frame saddle	J. M. Parker	553,815	Jan. 28	2361	562	74	485
Spinning-frame separator. Ring	H. W. Bracken	570,423	Oct. 27	3056	724	77	616
Spinning-frame yarn-separator	G. E. Chandler	553,102	Jan. 14	1129	274	74	226
Spinning-frames. Differential motion for driving bobbins of	M. Campbell	553,667	Jan. 28	2113	500	74	437
Spinning-machine	J. Brown	554,360	Feb. 11	1003	232	74	706
Spinning-machine	W. J. Burnham	557,485	Mar. 31	3574	855	74	1870
Spinning-machine	F. S. Culver	556,307	Mar. 10	1501	348	74	1427
Spinning-machine	J. S. Macfarlane	573,676	Dec. 22	2872	678	77	1876
Spinning-machine	J. T. Meats	570,409	Oct. 27	3028	717	77	610
Spinning-machine	J. A. Miller	557,688	Apr. 7	292	70	75	56
Spinning-machine	H. A. Owen	573,692	Dec. 22	2896	684	77	1881
Spinning-machine nipper or tension device	J. Neale	566,007	Aug. 18	1954	473	76	1022
Spinning-machine separator	W. E. Sharples	556,109	Mar. 10	1106	263	74	1354
Spinning-machine separator	E. M. Whittum	555,911	Mar. 3	724	174 175	74	1264
Spinning-machine tension mechanism. Ring	M. E. Sullivan	562,777	June 23	2992	724	75	1994
Spinning-machine top-roll saddle	H. A. Owen	570,765	Nov. 3	637	146	77	755
Spinning machine. Twine	G. H. Ellis and J. F. Steward	568,299	Sept. 22	2744	659 660	76	1835
Spinning machinery. Cop and tube	E. Gilyard and C. Ward	555,504	Mar. 3	35	8	74	1137
Spinning-mule	J. T. Meats and T. W. Dean	573,280	Dec. 15	2101	506 507	77	1715
Spinning or twisting machine	J. R. Montgomery	572,659	Dec. 8	1001	241	77	1489
Spinning-ring holder	T. Thacker	562,986	June 30	3400	817	75	2093
Spinning-ring travelers. Cleaner for	G. W. Knight	564,087	July 14	1501	351	76	295
Spinning-spindle band-guide	J. Gregson and C. J. Murray	565,680	Aug. 11	1347	327	76	887
Spinning-spindle. Cap	J. W. Bamford	564,773	July 28	2657	638	76	543
Spinning-spindles. Device for lubricating	J. and R. S. Dawson	564,366	July 21	1986	466	76	396
Spittoon	A. Rosenberg	559,404	May 5	101	22	75	700
Spittoon	R. J. Smith	567,050	Sept. 1	560	131	76	1388
Spittoon	C. Wellhöfer	561,247	June 2	288	72, 73	75	1424
Spittoon-holder	J. F. Kuhlmann	562,900	June 30	3233	781	75	2057
Splicing-clamp	D. N. Osyor	574,260	Dec. 29	3965	942	77	2090
Spint-cutting machine	M. T. Weston and G. H. Marston	574,050	Dec. 29	3542	845 846	77	2015
Spint. Flexed fracture	W. D. Kearns	568,951	Oct. 6	401	90	77	77
Spint-machine	J. T. Whitten	572,232	Dec. 1	244	58	77	1325
Spoke-trimming machine	F. G. Davis	561,495	June 2	768	188 189	75	1515
Spokeshave and rabbit-plane	J. A. Trant	555,228	Feb. 25	2531	597	74	1025
Spoke-socket	H. H. McElhiney	555,966	Mar. 10	834	199	74	1306
Spoke-socket	S. S. Sheaffer	553,766	Jan. 28	2282	540	74	470
Spoke-turning machine	J. Palleschitz	553,720	Jan. 28	2206	523	74	456
Spokes. Tool for tightening	J. Jacoby	564,151	July 14	1613	378	76	317
Sponge fabric and making same	D. E. Ballam	565,590	Aug. 11	1185	285	76	855
Sponges, &c. Case or receptacle for	E. A. E. Vivian	558,535	Apr. 21	1808	439	75	375
Spool attachment	D. E. Whitfield	556,523	Mar. 17	1913	445	74	1520
Spool-box	C. Christensen	559,364	May 5	26	7	75	685
Spool-cabinet	W. H. H. Knight	564,153	July 14	1616	378 379 380	76	318
Spool-heads. Machine for applying metal coverings to	A. T. Tregurtha	557,729	Apr. 7	369	86, 87	75	70

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dis.	Vol.	Page.
Spool-holder	J. H. Griffith	567,743	Sept. 15	1758	421	76	1637
Spool-holder	C. W. Leach	557,278	Mar. 31	3213	771	74	1800
Spool-holder	C. E. Lincoln	564,434	July 21	2103	492	76	418
Spool-holder	E. N. Paul	567,040	Sept. 1	543	127	76	1384
Spool-holder, &c	A. L. Perot	565,561	Aug. 11	1128	272	76	844
Spool-holder	A. L. Perot	565,562	Aug. 11	1129	273	76	844
Spool-holder	D. P. Pewthers	567,996	Sept. 22	2208	532	76	1734
Spool-holder	D. F. Taylor	569,307	Oct. 13	1026	244	77	211
Spool-holder	A. M. Yeakel	572,043	Nov. 24	2860	673	77	1233
Spool-holder	A. M. Yeakel	573,563	Dec. 22	2645	629	77	1833
Spool-molding machine	H. M. Wilson and H. Clementson	565,061	Aug. 4	168	39, 40	76	648
Spools, balls, or skeins of yarn, &c. Device for holding	J. C. F. and J. C. E. Trachsel	556,592	Mar. 17	2017	471	74	1538
Spooler-guide	H. W. Bracken	567,450	Sept. 8	1269	307	76	1528
Spooling-machine bobbin-holder	S. N. Bourne	558,893	Apr. 21	2416	588	75	488
Spooling-machines. Bunch-arresting yarn-guide for	F. W. Easton	563,755	July 14	880	209	76	181
Spoon attachment	A. E. Rood	552,780	Jan. 7	519	126	74	97
Spoon-handle hook	R. M. Gannon	574,145	Dec. 29	3713	885	77	2045
Spoon. Mustache	W. F. Zapf	553,093	Jan. 14	1108	269	74	222
Sporting and athletic outfits. Receptacle for	F. Kruegelbach	563,493	July 7	439	101	76	84
Spouts. Discharge apparatus for pivoted	E. F. Reynolds	570,055	Oct. 27	2340	555	77	481
Sprayer	G. F. Wilbraham	563,829	July 14	1012	240	76	205
Sprayer for field-crops. Gravity	L. B. Wood	566,729	Aug. 25	3178	777	76	1267
Sprayer. Lawn	J. Auble and A. D. Weiss	558,891	Apr. 21	2414	588	75	488
Sprayer or sprinkler	E. J. Meyer	573,157	Dec. 15	1880	453	77	1675
Spraying apparatus	J. C. Ollard	569,883	Oct. 20	2039	486	77	411
Spraying device	J. H. Potter	559,042	Apr. 28	2685	654	75	555
Spraying device. Plant	W. A. Van Deusen	556,447	Mar. 17	1763	410	74	1493
Spraying-pipe. Flexible	J. H. Burck	555,147	Feb. 25	2398	569	74	1000
Spring:							
See Bed-spring.	Heel-spring.						
Bicycle seat-spring.	Leaf-spring.						
Bolster-spring.	Vehicle-spring.						
Coiled spring.	Wagon-bolster spring.						
Door-spring.	Watchcase-spring.						
Gate-spring.							
Spring	A. C. Bell	571,637	Nov. 17	2134	512	77	1077
Spring	R. Janney	571,972	Nov. 24	2740	648	77	1211
Spring bolt or lock and key	H. Kunze and S. Brown	567,143	Sept. 8	730	171	76	1432
Spring-compressing mechanism	F. W. Chaffee	554,476	Feb. 11	1208	241	74	745
Spring-eye	W. S. Richardson	567,198	Sept. 8	813	193	76	1448
Spring-fastener	S. Porter	564,761	July 28	2670	635	76	539
Spring-jack switch	C. E. Scribner	552,729	Jan. 7	410	105	74	79
Spring-motor	R. I. Brown	563,909	July 14	1181	278	76	236
Spring-motor	G. W. Parker	570,266	Oct. 27	2733	650	77	556
Spring-roller	T. M. P. Chapman	558,481	Apr. 21	1718	415	75	358
Spring-seat	J. H. Housman	564,199	July 21	1706	399	76	346
Spring-seat	C. S. Paine	553,762	Jan. 28	2277	539	74	469
Spring-seat. Tilting	C. F. Davy	557,494	Mar. 31	3589	860	74	1873
Spring-support for body-loops	C. A. Behlen	554,107	Feb. 4	564	126	74	607
Springs. Apparatus for manufacturing plate or leaf	G. W. Willford	560,074	May 12	1341	300	75	949
Springs. Connection for coiled	W. C. Van Cise	569,256	Oct. 13	932	223	77	194
Springs. Device for forming and tempering buggy	C. E. M. Champ	568,602	Sept. 29	3305	792	76	1953
Springs. Machine for coiling angular	A. A. Ambler	563,835	July 14	1026	243	76	208
Springs. Making vehicle	G. T. Glover	555,153	Feb. 25	2407	571	74	1003
Sprinkler:							
See Automatic sprinkler. Street-sprinkler.							
Lawn-sprinkler.	Water-sprinkler.						
Railway street-sprinkler.							
Sprinkler	C. Neracher	571,012	Nov. 10	1068	249	77	865
Sprinkler	B. H. Sanders	553,568	Apr. 21	1862	452	75	384
Sprinkler system. Automatic	J. C. Westbrook	556,947	Mar. 24	2606	612	74	1665
Sprinkler systems. Valve-controlling mechanism for	J. R. Freeman	568,343	Sept. 29	2829	681	76	1666
Sprinkling-can	G. H. Engelhart	566,384	Aug. 25	2597	634	76	1159
Sprinkling device	F. L. Schild	561,286	June 2	396	99	75	1447
Sprinkling device	J. P. Van Sickle	553,727	Jan. 28	2221	526	74	458
Sprocket-wheel	J. Cowen	568,837	Oct. 6	204	49	77	40
Sprocket-wheel	C. W. Duke	556,254	Mar. 10	1371	322	74	1402
Sprocket-wheel	J. Lindsay	569,216	Oct. 13	862	203	77	180
Sprocket-wheel	W. J. Ross	571,398	Nov. 17	1721	409	77	1002
Sprocket wheel and chain	P. G. Gardner	566,750	Sept. 1	31	8	76	1286
Sprocket wheel and chain	J. C. Hochhaus	554,272	Feb. 11	851	194	74	677
Sprocket-wheel. Sheet-metal	R. M. Corcoran	567,294	Sept. 8	994	236	76	1479
Spudding-shoe	I. L. Neely	555,110	Feb. 25	2335	555	74	989
Spur	N. Knowles	554,882	Feb. 18	1911	450	74	895
Square	C. H. Biggs	556,840	Mar. 24	2427	570	74	1633
Square	J. P. Johns	567,832	Sept. 15	1917	459	76	1667
Square	N. W. Spaulding	558,117	Apr. 14	1088	266	75	223
Square	J. H. Welch	562,683	June 23	2822	685	75	1961
Square and level. Combined	A. H. Edwards and J. Hazard	568,751	Oct. 6	70	16	77	16
Square. Carpenter's	J. P. Deegan	566,970	Sept. 1	420	98	76	1361
Square. Carpenter's	D. Martin	569,220	Oct. 13	868	204	77	181
Square. Center	J. R. Topping	554,402	Feb. 11	1068	240	74	718
Square. Combination	C. Chretien	557,302	Mar. 31	3255	780	74	1808
Square. Combined weather-boarding and try	R. E. Poindexter	573,795	Dec. 22	3057	724	77	1912
Square. Folding	J. S. Hanlon	561,109	June 2	55	15	75	1377
Square. Garment-cutter's	W. H. Goldsberry	563,370	July 7	231	53	76	47
Square. T.	M. J. Hammers and C. R. Clark	557,804	Apr. 7	507	122	75	96
Square. Tailor's	R. Moccia	568,263	Sept. 22	2688	644	76	1823

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Square. Try.....	E. S. Farley.....	563,465	July 7	385	89	76	75
Stable appliance. Cow.....	S. M. Parker.....	568,788	Oct. 6	132	32	77	27
Stable appliance. Cow.....	S. M. Parker and C. E. Smock.....	553,213	Jan. 14	1319	320	74	261
Stable-cleaning device.....	C. A. Monroe.....	556,637	Mar. 17	2083	487	74	1551
Stable-drain.....	M. Logan.....	559,035	Apr. 28	2665	649	75	552
Stable-floor.....	C. D. Smith.....	558,574	Apr. 21	1870	454	75	386
Stacker.....	L. L. Bisbee.....	572,151	Dec. 1	98	22, 23	77	1296
Stacker. Grain-bundle.....	H. F. Spaulding.....	571,865	Nov. 24	2547	603 604 605 439 440 441	77	1174
Stacker. Pnenmatic.....	G. A. Anderson.....	573,125	Dec. 15	1821	441	77	1664
Stacker. Pneumatic.....	F. B. Charroin.....	566,841	Sept. 1	180	41	76	1316
Stacker. Pneumatic.....	W. W. Dingee.....	571,698	Nov. 24	2619	620 621	77	1187
Stacker. Pneumatic.....	E. Huber and J. W. Miller.....	559,452	May 5	184	40	75	717
Stacker. Pneumatic.....	F. F. Landis.....	567,031	Sept. 1	522	123	76	1381
Stacker. Pneumatic.....	F. F. Landis.....	569,504	Oct. 13	1353	318	77	271
Stacker. Pneumatic.....	D. N. Nester.....	570,182	Oct. 27	2574	612	77	526
Stacker. Pneumatic.....	L. Norris.....	559,196	Apr. 28	2995	723	75	615
Stacker. Pneumatic.....	F. A. Peavey.....	572,768	Dec. 8	1203	291	77	1526
Stackers. Fan for pneumatic.....	F. F. Landis.....	568,315	Sept. 22	2773	667 668	76	1841
Stage apparatus.....	C. E. Nilsson.....	558,413	Apr. 14	1585	387	75	316
Stage bracket. Swinging.....	H. Witzgall.....	563,536	July 7	508	118	76	96
Stage race-track.....	S. E. Hoopes.....	559,031	Apr. 28	2658	647 648	75	551
Stage-scenery support.....	T. H. Andrews.....	559,562	May 5	366	88	75	754
Staging-jack.....	M. W. Reeves.....	563,309	July 7	133	31	76	28
Stair construction.....	C. B. Godfrey.....	553,487	Jan. 21	1790	426	74	363
Stair-pad or carpet-lining.....	F. O. Haubner.....	570,221	Oct. 27	2643	626	77	539
Stair-pad or the like.....	A. J. Le Clair.....	567,985	Sept. 22	2176	54	76	1729
Stair-step cover.....	D. Walker.....	564,730	July 28	2609	622	76	529
Stairs.....	E. A. Moore.....	569,464	Oct. 13	1274	300	77	257
Stairs, steps, &c. Tread for.....	T. Oddy.....	568,098	Sept. 22	2410	581	76	1771
Stairs. Trap-door.....	J. J. Schurr.....	568,704	Sept. 29	3488	834	76	1983
Staking-machine.....	D. H. Church.....	553,221	Jan. 14	1328	322	74	263
Stalk and weed chopper.....	J. M. Flower.....	557,372	Mar. 31	3376	811	74	1832
Stalk-cutter.....	J. Carrey.....	569,856	Oct. 20	2003	478	77	405
Stamp-affixing apparatus.....	A. R. Kolb.....	553,714	Jan. 28	2193	520 521	74	453
Stamp-applying machine.....	G. M. Guerrant.....	555,644	Mar. 3	280	65, 66	74	1180
Stamp-canceler.....	E. W. Milhado.....	557,413	Mar. 31	3450	827	74	1846
Stamp canceler and register. Hand.....	E. N. Shewell.....	559,148	Apr. 28	2911	703	75	598
Stamp. Electric branding.....	J. M. Kirker, M. Miller, and J. A. Williams.....	574,203	Dec. 29	3858	920	77	2070
Stamp. Hand.....	P. G. Girond.....	559,377	May 5	46	10	75	689
Stamp. Hand.....	J. C. Otteson.....	570,264	Oct. 27	2730	649	77	556
Stamp. Hand.....	F. Venn.....	570,724	Nov. 3	560	180	77	742
Stamp-holder and match-safe.....	C. Prager.....	561,434	June 2	670	164	75	1497
Stamp-inking-pad. Hand.....	W. H. Keeler.....	559,291	Apr. 28	3174	766	75	646
Stamp-mill.....	U. Lavoie.....	560,805	May 26	2689	618	75	1263
Stamp-mill.....	W. A. Logue.....	558,190	Apr. 14	1205	294	75	245
Stamp-mill ore-feeder.....	H. Bolthoff.....	563,217	June 30	3804	911 912	75	2170
Stamp-mill stamp-stem guide.....	C. A. Fargo.....	559,055	Apr. 28	2702	658	75	558
Stamp or coin case.....	G. B. Adams.....	572,237	Dec. 1	252	60	77	1326
Stamp or die. Marking.....	W. Wells.....	552,800	Jan. 7	558	135	74	106
Stamp. Printing.....	T. S. Buck.....	565,327	Aug. 4	692	166	76	744
Stamp-protector.....	W. H. Northall.....	565,295	Aug. 4	641	152	76	734
Stamp. Revolving hand.....	E. G. Mitts.....	566,525	Aug. 25	2867	696	76	1309
Stamp. Steam-power.....	J. H. Brown.....	565,876	Aug. 18	1699	416 417 68 70	76	970
Stamp. Time.....	C. Stahlberg.....	552,647	Jan. 7	251	69	74	49
Stamp. Time.....	W. T. Williams.....	556,390	Mar. 17	1653	386	74	1470
Stamper. Envelop.....	I. C. Goodridge.....	569,454	Oct. 13	1262	297	77	255
Stamping and canceling machine. Letter.....	F. Baldwin.....	563,996	July 14	1333	311	76	263
Stamping machine. Automatic letter.....	C. W. Ayers.....	558,141	Apr. 14	1124	274 275	75	230
Stamping machine. Mail.....	J. H. Barr.....	573,128	Dec. 15	1830	442 443	77	1666
Stamping out cartons, &c. Device for.....	A. Friedheim.....	571,999	Nov. 24	2789	658	77	1219
Stamping-press.....	O. S. Fellows.....	555,942	Mar. 10	789	189 190	74	1297
Stamping-press. Relief-color screw.....	R. F. Sproule.....	566,239	Aug. 18	2326	569 570	76	1092
Stanchion. Cattle.....	A. Murdock.....	564,213	July 21	1725	404	76	350
Stanchion. Cattle.....	J. H. Virkler.....	574,291	Dec. 29	4020	954	77	2101
Stand:							
See Display-stand. Music-stand.							
Dressmaker's stand. Racking-stand.							
Flower-stand. Railway-switch stand.							
Folding stand. Revolving stand.							
Hat-stand. Safety-stand.							
Horseshoeing-stand. Shaving-stand.							
Ice-cooler stand. Supporting-stand.							
Lamp-stand. Toilet-stand.							
Mirror-stand. Umbrella-stand.							
Stand.....	H. E. Raymond.....	567,507	Sept. 8	1361	327	76	1545
Stand and hanging show-card. Combination.....	W. A. Frazee.....	560,899	May 26	2875	660	75	1298
Stand for strainers and tea and coffee pots. Combined.....	M. Wheeler.....	564,462	July 21	2147	501	76	426

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Stand-pipe and watering-crane.....	D. Cheney.....	569,542	Oct. 13	1411	{ 333 334 }	77	283
Staple.....	E. Denis.....	563,913	July 14	1186	279	76	237
Staple-driving machine.....	G. W. Day.....	558,013	Apr. 7	897	226	75	168
Staple forming and driving machine.....	W. H. Jackson.....	573,329	Dec. 15	2201	{ 526 527 }	77	1732
Staple-puller.....	A. Martinson.....	564,094	July 14	1514	354	76	298
Staple-puller.....	E. C. Musgrave.....	561,337	June 2	489	123	75	1464
Staple-puller and wire-tightener.....	T. P. Wooten.....	561,463	June 2	717	176	75	1505
Stapling implement.....	J. A. Keyes and H. F. Lee.....	563,970	July 14	1292	302	76	255
Stapling-machine.....	E. T. Greenfield.....	572,293	Dec. 1	363	86, 87	77	1348
Stapling-machine.....	E. T. Greenfield.....	572,420	Dec. 1	597	{ 141 142 }	77	1391
Stapling-machine.....	J. A. Keyes.....	572,346	Dec. 1	452	106	77	1364
Starch. Apparatus for preparing grain in manufac- turing.....	J. and G. Firmenich.....	560,699	May 26	2512	576	75	1929
Starching-machine.....	D. H. Benjamin.....	561,154	June 2	141	37	75	1393
Starching-machine.....	A. T. Hagen and D. M. Cooper.....	554,266	Feb. 11	841	193	74	675
Starching-machine.....	A. M. Munson.....	566,604	Aug. 25	2978	727	76	1231
Starching-machine.....	D. H. Newton.....	571,281	Nov. 10	1531	363	77	951
Starching-machine.....	J. Randall.....	562,661	June 23	2785	676	75	1954
Starching-machine.....	V. C. Regan.....	571,798	Nov. 24	2429	579	77	1152
Starching-machine. Collar and cuff.....	M. Collins.....	555,210	Feb. 25	2505	591	74	1021
Starching-machine. Collar and cuff.....	S. T. Stites.....	566,242	Aug. 18	2330	571	76	1093
Station-indicator.....	F. W. Ayers.....	557,635	Apr. 7	192	49	75	37
Station-indicator.....	J. W. Barnes.....	561,476	June 2	736	181	75	1509
Station-indicator.....	D. Beemer.....	572,189	Dec. 1	162	39	77	1309
Station-indicator.....	A. W. Chormann.....	560,343	May 19	1836	418	75	1089
Station-indicator.....	D. E. Conner.....	571,301	Nov. 10	1566	372	77	959
Station-indicator.....	H. Feder.....	571,518	Nov. 17	1932	461	77	1041
Station-indicator.....	M. Fürst.....	572,977	Dec. 15	1571	377	77	1615
Station-indicator.....	F. J. Headley.....	557,677	Apr. 7	277	67	75	52
Station-indicator.....	O. J. Merritt.....	567,911	Sept. 15	2027	{ 486 487 }	76	1689
Station-indicator.....	W. B. Ramsay.....	562,026	June 16	1711	416	75	1738
Station-indicator.....	M. Sheppey and F. D. Moore.....	569,771	Oct. 20	1864	{ 442 443 }	77	379
Station-indicator.....	G. Tresenreuter.....	552,797	Jan. 7	553	134	74	105
Station indicator. Railway.....	A. Pally.....	573,350	Dec. 15	2238	{ 535 536 }	77	1739
Station-indicator striker-arm.....	O. J. Merritt.....	567,912	Sept. 15	2030	487	76	1690
Station or street indicator.....	E. B. and W. R. Lodge.....	568,859	Oct. 6	250	58	77	49
Station potential-indicator.....	E. D. Merzhon.....	571,839	Nov. 24	2501	592	77	1165
Stationery articles. Receptacle device for.....	L. F. Ford.....	555,502	Mar. 3	31	8	74	1136
Stature-indicator.....	W. Elborne.....	558,014	Apr. 7	907	227	75	170
Stave-bending machine.....	J. Deters.....	555,566	Mar. 3	138	32, 33	74	1156
Stave-bending machine.....	E. and B. Holmes.....	560,167	May 12	1507	341	75	980
Stave-bending machine.....	W. L. Kellogg.....	564,203	July 21	1712	{ 400 401 }	76	347
Stave-finishing machine.....	W. A. Greaves.....	554,676	Feb. 18	1553	366	74	828
Stave-jointer.....	W. L. Kellogg.....	565,859	Aug. 11	1670	410	76	948
Stave-steaming apparatus. Barrel.....	J. W. Angus.....	553,801	Jan. 28	2331	554	74	480
Staves. Apparatus for closing.....	A. Dunbar.....	571,516	Nov. 17	1929	460	77	1040
Stay. Dress.....	A. Bagley.....	571,327	Nov. 17	1611	383	77	982
Stay. Dress.....	J. S. Crofty.....	559,683	May 5	561	132	75	790
Stay. Dress.....	N. F. T. Hunt.....	556,928	Mar. 24	2579	608	74	1661
Stay. Dress.....	J. Janowitz.....	556,930	Mar. 24	2581	607	74	1661
Stay. Dress.....	A. S. Waitzfelder.....	562,443	June 23	2422	587	75	1886
Stay. Dress-fastening.....	R. W. Cash.....	557,252	Mar. 31	3165	759	74	1791
Stay. Garment.....	N. J. Wilkins.....	554,385	Feb. 11	1042	242	74	713
Stays. Apparatus for pressing and drying garment.....	J. S. Crofty.....	571,992	Nov. 24	2775	655	77	1217
Stays. Machine for covering dress.....	L. I. Cook and C. Carter.....	554,773	Feb. 18	1719	403	74	859
Steady-rest.....	J. H. Blum.....	562,271	June 16	2123	515	75	1814
Steak tenderer. Beef.....	J. K. Graham.....	563,271	July 7	66	16	76	14
Steam, air, or water motor.....	E. M. Crandall.....	569,546	Oct. 13	1417	335	77	284
Steam and explosion engine. Combined.....	W. Barnsdale.....	571,147	Nov. 10	1315	{ 306 307 }	77	911
Steam and hot-water heater.....	F. Tudor.....	559,551	May 5	348	84	75	750
Steam and oil separator.....	S. J. McDonald.....	560,420	May 19	1978	452	75	1115
Steam and water separator.....	F. D. Potter.....	558,984	Apr. 28	2580	627	75	535
Steam. Apparatus for regenerating exhaust.....	A. H. Engström.....	556,883	Mar. 24	2504	591	74	1648
Steam. Apparatus for regenerating exhaust.....	A. H. Engström.....	556,963	Mar. 24	2633	619	74	1671
Steam. Apparatus for regenerating exhaust.....	A. H. Engström.....	556,964	Mar. 24	2637	620	74	1672
Steam. Apparatus for superheating.....	G. Sinclair.....	559,623	May 5	468	108	75	772
Steam. Apparatus for superheating.....	G. Sinclair.....	559,624	May 5	469	109	75	772
Steam. Apparatus for utilizing exhaust.....	H. Ten Winkel.....	565,866	Aug. 11	1682	412	76	950
Steamboat.....	S. D. Thorson.....	569,253	Oct. 13	929	222	77	193
Steamboat-jack.....	S. R. Judd.....	559,712	May 5	602	144	75	797
Steam-boiler.....	S. Alley.....	561,469	June 2	728	179	75	1507
Steam-boiler.....	W. H. Berry.....	573,256	Dec. 15	2054	492	77	1706
Steam-boiler.....	J. J. Butcher.....	557,524	Mar. 31	3644	873	74	18-2
Steam-boiler.....	A. W. and L. Colwell.....	553,513	Jan. 28	1840	437	74	388
Steam-boiler.....	A. R. Cooper.....	572,194	Dec. 1	172	41, 42	77	1311
Steam-boiler.....	F. W. Dean.....	565,106	Aug. 4	268	64	76	666
Steam-boiler.....	W. D. Ewart.....	556,140	Mar. 10	1164	{ 273 274 }	74	1365
Steam-boiler.....	M. S. Foote.....	552,754	Jan. 7	460	115	74	87
Steam-boiler.....	C. H. Fox.....	568,438	Sept. 29	2982	717	76	1893
Steam-boiler.....	T. Gunning.....	571,660	Nov. 17	2167	521	77	1083
Steam-boiler.....	G. W. Johnson.....	559,583	May 5	393	95	75	759
Steam-boiler.....	H. C. Jones.....	563,665	July 7	717	169	76	135
Steam-boiler.....	O. Jones.....	558,918	Apr. 21	2466	600	75	496
Steam-boiler.....	R. Joy.....	573,001	Dec. 15	1609	{ 386 387 }	77	1623

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Steam-boiler	T. L. McGregor	556,473	Mar. 17	1809	420	74	1501
Steam-boiler	A. W. Morrell	559,741	May 5	649	157	75	805
Steam-boiler	J. A. Mumford	558,698	Apr. 21	2088	504	75	426
Steam-boiler	G. F. Nilsson	562,736	June 23	2920	708 709	75	1979
Steam-boiler	E. B. Parkhurst	557,424	Mar. 31	3469	831 832	74	1850
Steam-boiler	H. S. Pell	571,282	Nov. 10	1533	363	77	952
Steam-boiler	T. M. Rees	574,001	Dec. 29	3454	826 827	77	1998
Steam-boiler	J. Richardsen	564,104	July 14	1536	361	76	301
Steam-boiler	G. W. Swartz	561,292	June 2	406	100	75	1448
Steam-boiler	C. Starke	552,648	Jan. 7	262	70	74	51
Steam-boiler	J. A. Taft	559,915	May 12	1043	232	75	892
Steam-boiler	J. C. Titus	564,346	July 21	1949	459	76	390
Steam-boiler	J. J. Tonkin	556,909	Mar. 24	2551	601	74	1655
Steam-boiler	C. W. Townsend	564,037	July 14	1403	326	76	275
Steam-boiler	W. Wright	569,314	Oct. 13	1037	246 247	77	214
Steam-boiler and furnace	F. D. Shepherd	553,767	Jan. 28	2282	540	74	470
Steam-boiler or hot-water heater	C. W. Smart	552,974	Jan. 14	904	220	74	183
Steam-boiler or water-heater	A. J. Westburg	555,030	Feb. 18	2173	518	74	942
Steam-boiler. Sectional	C. Gorton	571,657	Nov. 17	2161	520	77	1082
Steam-boiler. Sectional	N. W. Pratt	557,700	Apr. 7	311	74	75	59
Steam-boiler. Tubulous	L. D. Davis	571,650	Nov. 17	2151	516	77	1080
Steam-boiler. Water-tube	T. Deegan	567,456	Sept. 8	1278	309 310	76	1530
Steam-boiler with superheater	W. Schmidt and G. Henkel	558,210	Apr. 14	1239	302 303	75	251
Steam-coupling	J. C. Mitchell	558,696	Apr. 21	2084	503 504	75	425
Steam. Device for regenerating exhaust	A. H. Engström	556,965	Mar. 24	2640	620	74	1672
Steam-engine	O. Abraham	568,555	Sept. 29	3205	772	76	1933
Steam-engine	C. A. Backstrom	572,946	Dec. 15	1512	361 362	77	1603
Steam-engine	G. A. Barnard	571,740	Nov. 24	2327	556	77	1132
Steam-engine	J. Barton	571,034	Nov. 10	1106	258 259	77	873
Steam-engine	W. B. Brown	567,805	Sept. 15	1865	446	76	1657
Steam-engine	M. C. Bullock	564,000	July 14	1336	312	76	264
Steam-engine	M. C. Bullock	564,001	July 14	1341	312 313	76	265
Steam-engine	M. C. Bullock	571,892	Nov. 24	2599	617 618	77	1183
Steam-engine	M. T. and M. C. Chapman	572,960	Dec. 15	1541	369	77	1609
Steam-engine	W. F. and E. W. Cleveland	553,747	Jan. 28	2253	533	74	464
Steam-engine	J. H. Dales	568,665	Sept. 29	3423	819	76	1975
Steam-engine	H. W. Forslund	554,022	Feb. 4	404	89	74	579
Steam-engine	H. W. Forslund	567,188	Sept. 8	797	188	76	1445
Steam-engine	F. Fosdick	569,628	Oct. 20	1592	375	77	332
Steam-engine	H. B. Halvorsen	573,216	Dec. 15	1988	478	77	1695
Steam-engine	R. S. Hill	553,712	Jan. 28	2186	518 519	74	452
Steam-engine	W. A. Jordan	566,686	Aug. 25	3103	758	76	1254
Steam-engine	P. Lersch	567,747	Sept. 15	1766	423 424 425	76	1638
Steam-engine	C. F. Littlejohn	564,090	July 14	1506	352 353	76	296
Steam-engine	A. K. Mansfield	569,292	Oct. 13	991	238	77	204
Steam-engine	R. H. Mather	559,395	May 5	81	17, 18	75	696
Steam-engine	F. Murgatroyd	553,419	Jan. 21	1679	400	74	342
Steam-engine	J. W. Nitcher	561,603	June 9	970	232	75	1579
Steam-engine	T. T. Prosser	555,465	Feb. 25	2970	708	74	1108
Steam-engine	G. S. Strong	559,501	May 5	2673	62, 63	75	732
Steam-engine	G. S. Strong	572,732	Dec. 8	1144	276	77	1515
Steam-engine	E. E. Wigzell	554,966	Feb. 18	2054	487 488	74	921
Steam-engine	W. Wright	564,547	July 21	2278	534 535	76	449
Steam-engine. Balanced	J. J. Heilmann	555,698	Mar. 3	364	84	74	1195
Steam-engine. Compound	H. W. Forslund	573,869	Dec. 29	3206	763	77	1953
Steam-engine. Compound	E. Hill	566,580	Aug. 25	2944	718 719	76	1225
Steam-engine. Compound	C. J. Mellin	557,135	Mar. 31	2936	703	74	1754
Steam-engine. Compound	G. S. Wolf and G. H. Pond	565,063	Aug. 4	172	40	76	649
Steam-engine. Compound expansion	A. M. Haley	560,496	May 19	2106	481	75	1138
Steam-engine. Duplex	G. R. Ray	570,054	Oct. 27	2338	554 555	77	481
Steam-engine. Oscillating	H. Mullen	559,591	May 5	406	98	75	762
Steam-engine. Self-oiling	C. K. Longenecker	561,120	June 2	72	19, 20	75	1381
Steam-engine. Single-acting	H. and P. Nadig	573,030	Dec. 15	1650	397	77	1632
Steam-fitting	A. Eichhorn	571,612	Nov. 17	2091	502	77	1068
Steam from tubs. Means for conveying	J. Marshall	573,340	Dec. 15	2222	531	77	1736
Steam-furnace	S. P. Hutchinson and S. L. Wiegand	570,999	Nov. 10	1040	244	77	861
Steam-gage	J. O'Connor and C. A. Turner	566,613	Aug. 25	2929	730	76	1233
Steam-gages. Electric alarm for	A. Ransom and A. J. Corrothers	568,370	Sept. 29	2869	690	76	1873
Steam-generator	C. R. Benton	555,754	Mar. 3	453	108	74	1211
Steam-generator	J. G. Cooper	558,778	Apr. 21	2217	534 535	75	449
Steam-generator	J. G. Cooper	558,779	Apr. 21	2222	535	75	451
Steam-generator	J. Corbett	566,664	Aug. 25	3059	747 748	76	1247
Steam-generator	P. Dubiau. (Reissue)	11,558	July 21	2354	554	76	463

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Steam-generator	W. Eaves	559,519	May 5	289	68, 69	75	738
Steam-generator	A. W. Finlayson	553,982	Feb. 4	326	72	74	564
Steam-generator	J. B. Granjon	572,750	Dec. 8	1177	283	77	1521
Steam-generator	J. Grubinski	571,562	Nov. 17	2010	478	77	1054
Steam-generator	A. Heberer	566,395	Aug. 25	2618	639 640	76	1163
Steam-generator	S. Lacavalerie	565,907	Aug. 18	1765	429 430	76	984
Steam-generator	D. H. McCarty	564,023	July 14	1376	320	76	272
Steam-generator	J. McGregor and J. L. Jackson	573,688	Dec. 22	2891	683	77	1880
Steam-generator	A. F. Mead	566,994	Sept. 1	461	106	76	1369
Steam-generator	N. W. Pratt	565,029	Aug. 4	120	29	76	640
Steam-generator	N. W. Pratt	570,229	Oct. 27	2658	630 631 632 633	77	542
Steam-generator	J. Roberts	553,689	Jan. 28	2149	508	74	444
Steam-generator	H. R. Scott	571,847	Nov. 24	2517	596	77	1168
Steam-generator	H. R. Scott	571,848	Nov. 24	2519	597	77	1168
Steam-generator	W. W. Scott	562,342	June 16	2254	546	75	1838
Steam-generator	H. Seifert	557,156	Mar. 31	2975	711	74	1761
Steam-generator	A. Seigle	571,696	Nov. 17	2229	536	77	1095
Steam-generator	L. E. Solignac	560,286	May 19	1738	396	75	1073
Steam-generator	D. M. Thompson	559,151	Apr. 28	2915	704	75	599
Steam-generator	C. E. Wakeman	556,599	Mar. 17	2028	475	74	1540
Steam generator and condenser	F. Ljungstrom	574,157	Dec. 29	3734	890 891	77	2049
Steam-generator and tank-heater	T. F. Butterfield	559,259	Apr. 28	3124	755	75	638
Steam-generator. Drop-tube	G. A. Curtis and R. Cunningham	560,397	May 19	1937	443	75	1108
Steam-generator furnace	T. F. Morrin	566,924	Sept. 1	325	76	76	1344
Steam-generator. High-pressure	E. T. Sederholm	557,899	Apr. 7	655	157 158	75	124
Steam-generator. Tubular	J. Buckley	563,557	July 7	550	126	76	104
Steam-generators. Means for closing tubes of	N. W. Pratt	571,016	Nov. 10	1075	251	77	866
Steam-generators. Water-return system for	E. B. Benham and J. McAllister	569,318	Oct. 13	1044	218	77	215
Steam-heater. Antifreezing	W. Parrett	555,223	Feb. 25	2525	595	74	1024
Steam. Means for reheating exhaust	O. D. McClellan and W. T. Girling	574,160	Dec. 29	3741	892 893 894	77	2050
Steam-meter	G. C. St. John	567,054	Sept. 1	566	132	76	1389
Steam. Method of and apparatus for generating	E. A. Ashcroft	570,195	Oct. 27	2595	617	77	530
Steam or hot-water heater	J. J. Blackmore	556,328	Mar. 17	1543	360	74	1449
Steam purifier and separator	J. S. Stephens	552,593	Jan. 7	153	43	74	31
Steam-raising apparatus	C. Bourdon	552,741	Jan. 7	433	109	74	83
Steam-separator	C. W. Baker	553,892	Feb. 4	153	31	74	535
Steam-separator	E. E. Gold	557,264	Mar. 31	3183	763	74	1795
Steam-separator	J. J. Hoppes	573,878	Dec. 29	3221	766	77	1956
Steam-separator	J. W. Parker	557,221	Mar. 31	3103	744	74	1781
Steam separator and trap	F. T. Howell	555,701	Mar. 3	368	85	74	1195
Steam-separator attachment	D. Cochran	557,109	Mar. 31	2891	690	74	1744
Steam-shovel	J. Campbell	558,631	Apr. 21	1965	477	75	404
Steam-shovel	J. Campbell	573,204	Dec. 15	1968	474	77	1691
Steam-shovel	J. Campbell and D. H. Kelley	558,896	Apr. 21	2421	590	75	429
Steam-shovel	D. H. Kelley	558,908	Apr. 21	2441	594 595	75	492
Steam-shovel	G. W. King	567,395	Sept. 8	1184	283	76	1512
Steam shovel, ditching-machine, and dredge	O. Hetlesater	563,857	July 14	1075	254	76	216
Steam shovel or excavator	J. B. Webber	557,350	Mar. 31	3340	802	74	1826
Steam-trap	A. J. Bayley	571,330	Nov. 17	1615	384	77	962
Steam-trap	R. M. Dixon and E. E. Allbee	564,979	Aug. 4	36	7	76	623
Steam-trap	W. Geipel	560,491	May 19	2100	480	75	1137
Steam-trap	C. H. Harttert	565,457	Aug. 11	915	218	76	805
Steam-trap	S. H. Howland	573,658	Dec. 22	2846	671	77	1872
Steam-trap	W. L. Jancey and F. W. Ingram	554,698	Feb. 18	1586	373	74	894
Steam-trap	N. Nilson	557,693	Apr. 7	298	72	75	57
Steam-trap	E. Reynolds	566,870	Sept. 1	225	52	76	1325
Steam-trap. Automatic	N. Nilson	556,366	Mar. 17	1614	377	74	1464
Steam-trap. Automatic	N. Nilson	573,908	Dec. 29	3268	780	77	1965
Steam-trap. Expansion	H. F. Smurthwaite	570,777	Nov. 3	655	150	77	758
Steam water-heater. Exhaust	J. S. Calkins	563,840	July 14	1045	246	76	210
Steamer and cooker	S. W. Hurlburt	553,309	Jan. 21	1499	360	74	308
Steamer. Grain	J. H. S. Griess	558,065	Apr. 14	1010	246	75	206
Steamer, heater, and feed-regulator. Wheat	W. H. Reitz	567,509	Sept. 8	1363	328	76	1545
Steamer. Wheat	N. C. Blackburn and E. E. Howell	571,658	Nov. 17	2135	512	77	1077
Steamer. Wheat	E. E. Horner	566,317	Aug. 25	2460	603	76	1132
Steamer. Wheat	F. F. Quitzo	559,603	May 5	431	102	75	766
Steel and refining of iron ore. Production of	H. Schweitzer and E. E. Lungwitz	566,026	Aug. 18	1982	76	1027	
Steel. Hardening cast	W. T. Reaser	552,546	Jan. 7	73	20	74	17
Steel-hoop-manufacturing plant	J. Ring	555,972	Mar. 10	843	201	74	1307
Steel ingots. Manufacture of	F. E. Parks	564,219	July 21	1735	76	352	
Steel, iron, or other metals. Liquid compound used for tempering and toughening	Z. T. Clark and J. R. Neill	571,646	Nov. 17	2146	77	1079	
Steel. Manufacture of	J. H. Carpenter	559,359	May 5	17	75	684	
Steel. Manufacturing	E. Bertrand and O. Thiel	559,253	Apr. 28	3115	752 753	75	637
Steel. Manufacturing	E. M. Johnson	569,461	Oct. 13	1272	77	256	
Steel manufacturing	C. Walrand and E. Legenisel. (Re-issue.)	11,570	Sept. 29	3527	76	1996	
Steering apparatus. Boat	W. E. Cole	557,052	Mar. 24	2798	665	74	1704
Steering apparatus. Electrically-controlled boat	C. E. Ongley	563,304	July 7	119	29	76	25
Steering apparatus. Ship	G. E. Woodman	554,945	Feb. 4	441	97	74	565
Steering apparatus. Steam	C. B. Perley	570,620	Nov. 3	487	114	77	729
Steering device. Electrically-controlled	C. E. Ongley	561,272	June 2	337	84, 85	75	1434
Steering-gear	C. E. Bergman	557,539	Apr. 7	12	3, 4	75	4

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Steering-gear. Controlling-valve apparatus for.....	W. R. G. Hay	558,806	Apr. 21	2268	{ 549 550 227	75	459
Steering-gear. Electrical.....	M. Pfatischer.....	559,904	May 12	1028	{ 228 229	75	889
Steering-gear. Hydraulic.....	C. E. Bergman	553,150	Jan. 14	1198	202	74	240
Steering-gear of ships. Telltale for.....	M. Pfatischer.....	561,431	June 2	659	161	75	1495
Steering-gear. Ship.....	M. Pfatischer.....	559,903	May 12	1026	227	75	889
Steering-gear. Ship's.....	H. G. Cameron.....	564,471	July 21	2157	505	76	428
Steering-gear. Steam.....	A. Harrold and W. H. P. trimmer	560,129	May 12	1441	325	75	968
Steering-gear. Vessel.....	D. L. Volker.....	567,327	Sept. 8	1064	{ 253 254	76	1491
Steering-machine for ships. Hydraulic.....	A. F. Wiking.....	564,265	July 21	1816	{ 425 426	76	367
Steering machinery. Telemotor apparatus for.....	A. B. Brown.....	568,737	Oct. 6	36	9	77	10
Steering mechanism.....	J. F. Adams.....	571,964	Nov. 24	2729	645	77	1209
Steering vessels.....	A. B. Brown.....	568,736	Oct. 6	32	8, 9	77	9
Steering vessels. Apparatus for.....	A. B. Brown.....	562,738	Oct. 6	39	9, 10	77	10
Stencil-cutting machine.....	S. D. Hartog, Jr.....	561,990	June 16	1646	{ 401 402	75	1726
Stencil-cutting machine.....	J. A. Hoff and J. W. Munson.	573,841	Dec. 22	3147	750	77	1928
Stencil. Duplicating.....	A. B. Dick.....	562,590	June 23	2672	647	75	1932
Stencil-sheet.....	A. B. Dick.....	559,667	May 5	566	134	75	790
Stencil-sheet. Compound.....	T. H. Stackhouse.....	565,043	Aug. 4	140	33	76	644
Stencils. Apparatus for producing.....	J. Brodrick.....	563,355	July 7	211		76	43
Stenographers and type-writers. Automatic place-keeper for.....	W. E. Williams.....	560,013	May 12	1217	272	75	926
Step. Extension.....	S. J. Evans.....	571,996	Nov. 24	2785	657	77	1219
Stereopticon.....	M. G. Crane.....	556,531	Mar. 17	1923	{ 448 449	74	1522
Stereoscope.....	C. Briggs and F. W. Masters	564,466	July 21	2151	503	76	427
Stereoscope.....	H. S. Walbridge.....	559,878	May 12	973	217	75	879
Stereoscope.....	H. S. Walbridge.....	561,930	June 9	1540	{ 372 373	75	1686
Stereoscope.....	H. C. White.....	571,716	Nov. 17	2263	544	77	1101
Stereotype-casting apparatus.....	C. M. Conley.....	560,395	May 19	1934	442	75	1107
Stereotype-matrices. Setting.....	H. A. W. Wood.....	560,882	May 26	2846	652	75	1293
Stereotype-plate holder.....	C. C. Keller.....	564,624	July 28	2138	573	76	497
Stereotype-plate holder. Adjustable.....	C. C. Keller.....	558,567	Apr. 21	1892	458	75	390
Sterilizer.....	A. V. M. Sprague.....	571,541	Nov. 17	1977	470	77	1048
Sterilizing apparatus.....	J. L. A. Aymard.....	566,866	Sept. 1	254	58	76	1331
Sterilizing apparatus.....	G. W. Kellogg.....	573,273	Dec. 15	2082	500	77	1711
Sterilizing apparatus. Liquid.....	F. M. Ashley.....	572,514	Dec. 8	749	178	77	1435
Sterilizing apparatus. Liquid.....	F. M. Ashley.....	572,515	Dec. 8	750	179	77	1436
Sterilizing apparatus. Liquid.....	F. M. Ashley.....	572,516	Dec. 8	752	179	77	1436
Sterilizing-oven door.....	A. V. M. Sprague.....	571,542	Nov. 17	1979	471	77	1048
Sterilizing vessels.....	J. C. Pennington.....	559,203	Apr. 28	3006	727	75	617
Stethoscope.....	A. R. Mitchell.....	555,522	Mar. 3	62	14	74	1142
Stethoscope.....	O. H. Sheppard.....	563,421	July 7	308	70	76	61
Still.....	J. O. Bentley.....	557,102	Mar. 31	2877	687	74	1742
Still-agitator.....	H. Frasch.....	553,191	Jan. 14	1282	310	74	254
Still and water-heating and cooking appliances. Water-ter.....	W. G. Minor.....	556,157	Mar. 10	1200	280	74	1371
Stirrup.....	R. J. Chilcott.....	567,334	Sept. 8	1074	257	76	1493
Stirrup.....	H. W. Judevine.....	556,634	Mar. 17	2079	486	74	1550
Stirrup.....	E. F. Long.....	565,478	Aug. 11	956	228	76	815
Stirrup.....	E. M. Turner.....	559,046	Apr. 28	2689	655	75	556
Stirrup. Saddle.....	C. Swindell.....	569,071	Oct. 6	611	139	77	117
Stitch cutter. Bow.....	W. Robertson.....	557,887	Apr. 7	634	151	75	119
Stitch separating and indenting machine.....	J. B. Hadaway. (Reissue).....	11,538	May 12	1536	{ 347 348	75	925
Stitches. Tool for pricking and marking lines of.....	E. F. Mower.....	570,139	Oct. 27	2495	591	77	511
Stitching machine. Belt.....	T. A. Eagan.....	560,201	May 19	1575	357	75	1044
Stock-finishing machine.....	M. E. Clark.....	570,867	Nov. 3	814	{ 187 188	77	790
Stock-guard.....	J. M. Lee.....	571,232	Nov. 10	1450	340	77	936
Stock-marker.....	D. C. Shannon.....	573,110	Dec. 15	1800	433	77	1661
Stocking.....	J. H. Jensen.....	570,807	Nov. 3	700	160	77	768
Stocking-foot pattern.....	W. W. Ricker.....	558,563	Apr. 21	1645	449	73	382
Stocking-retainer.....	A. J. Heys.....	563,961	July 14	1278	299	76	253
Stoker. Coal.....	W. H. Hannan.....	567,710	Sept. 15	1702	409	76	1626
Stoker. Mechanical.....	W. A. Ayres and H. P. Ranger	565,253	Aug. 4	587	158	76	723
Stoker. Mechanical.....	A. J. Marshbank.....	559,860	May 12	937	209	75	873
Stoker. Mechanical.....	J. M. Roe.....	566,871	Sept. 1	226	52, 53	76	1325
Stoker. Underfeed.....	A. F. Brown.....	570,978	Nov. 10	1003	{ 232 233	77	853
Stoker. Underfeed.....	D. F. Graham.....	570,924	Nov. 10	917	{ 212 213	77	838
Stone. Artificial.....	E. Boehm.....	569,002	Oct. 6	500	113	77	95
Stone. Artificial.....	E. C. Erice.....	555,207	Feb. 25	2501		74	1050
Stone. Artificial.....	G. G. Schroeder.....	562,201	June 16	2011		75	1793
Stone-breaker.....	R. McCully.....	557,216	Mar. 31	3096	{ 742 743	74	1779
Stone-breaker.....	R. McCully.....	566,088	Aug. 18	2077	507	76	1044
Stone, brick, &c. Manufacture of artificial.....	E. C. Brice.....	555,206	Feb. 25	2501		74	1020
Stone-clamp.....	M. J. Hawley.....	552,759	Jan. 7	474	117	74	89
Stone. Composition of matter for artificial.....	A. Cléry.....	568,239	Sept. 22	2654		76	1817
Stone cutting and dressing machine.....	W. Davidson and J. Walker.....	559,515	May 5	282	67	75	737
Stone cutting, dressing, and finishing machine.....	J. A. Garden.....	565,892	Aug. 18	1724	423	76	174
Stone-cutting machine.....	P. H. Berrighin.....	559,252	Apr. 28	3111	{ 751 752	75	636
Stone-cutting machine.....	F. X. Landry.....	565,468	Aug. 11	934	223	76	809
Stone-cutting machine.....	M. Thonar.....	568,077	Sept. 22	2364	571	76	1761
Stone-cutting saw.....	O. W. Norcross.....	553,657	Jan. 28	2101	496	74	435

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Stone-dressing machine	O. T. Dutro	570,466	Nov. 3	43	10, 11	77	646
Stone-dressing machine	J. Flindall and F. J. Mally	563,583	July 7	591	{ 137 138 }	76	111
Stone-dressing machine	C. Lohr	569,719	Oct. 20	1776	422	77	364
Stone-dressing machine	J. M. Malone and J. D. Perkins	566,596	Aug. 25	2965	724	76	1228
Stone-dressing machine	R. Marquart	563,499	July 7	446	103	76	86
Stone-dressing machine	S. H. Pickering	558,739	Apr. 21	2153	519	75	438
Stone-dressing tool	G. M. Githens	553,307	Jan. 21	1496	359	74	308
Stone-drilling	J. Sherman	560,329	May 19	1816	413	75	1085
Stone-lewis	W. J. Doyle	566,745	Sept. 1	21	5, 6	76	1284
Stone-lifting machine	F. Trier	558,439	Apr. 14	1642	395	75	328
Stone, &c. Machinery for working	C. C. Gilman	566,751	Sept. 1	32	8	76	1266
Stone. Manufacture of artificial.	F. J. Rönitz	574,172	Dec. 29	3783	{ 902 903 }	77	2058
Stone. Means for making artificial.	G. L. Badger	561,367	June 2	537	{ 135 136 }	75	1473
Stone. Method of and apparatus for dressing	C. A. Thomson	560,871	May 26	2825	647	75	1289
Stone-planing-machine attachment.	A. F. Weaver	554,430	Feb. 11	1132	264	74	731
Stone-saw	A. Mills	555,611	Mar. 3	215	50	74	1169
Stone-saw. Circular	L. T. Cook	559,441	May 5	167	36, 37	75	713
Stone-saws. Variable feed for gang	G. F. Clark	558,483	Apr. 21	1721	416	75	358
Stone-sawing apparatus	F. Bielhen	568,731	Oct. 6	25	5, 6	77	8
Stone-sawing machine	H. Kelley	564,081	July 14	1493	350	76	293
Stone-sawing machine	W. R. Young	565,249	Aug. 4	582	136	76	722
Stone-working machinery	D. Shortleeve	563,081	June 30	3577	{ 858 859 }	75	2127
Stone-working machinery and rubbing bed-plate therefor.	R. L. Bent	559,664	May 5	533	122	75	784
Stool	S. Fuerstenberg	561,880	June 9	1460	352	75	1671
Stool	D. E. Lane	569,212	Oct. 13	854	201	77	178
Stool and cot. Combined camp	S. H. Schenck	571,579	Nov. 17	2838	485	77	1059
Stool. Automatic-acting	A. R. Milner	567,320	Sept. 8	1054	251	76	1489
Stool. Camp	J. D. Abel	560,669	May 26	2461	564	75	1218
Stool. Camp	L. G. Wade	564,129	July 14	1575	370	76	310
Stool. Counter	A. H. Davison	553,108	Jan. 14	1141	277	74	228
Stool. Pocket	A. Foisy	552,956	Jan. 14	873	212	74	177
Stool. Shoe-salesman's	M. S. Hess	556,186	Mar. 10	1258	293	74	1381
Stoop-runner	A. L. Ross	565,301	Aug. 4	653	{ 155 156 }	76	736
Stop-box	I. Sorsoleil	572,836	Dec. 8	1317	316	77	1548
Stop device for grinders, &c. Safety	J. B. Forsyth	570,848	Nov. 3	782	{ 178 179 }	77	784
Stop-motion	W. S. Hamm	564,015	July 14	1365	318	76	269
Stop-motion	D. C. Ryder	557,612	Apr. 7	146	38	75	29
Stop-motion device. Automatic	T. C. Dexter	567,302	Sept. 8	1010	{ 240 241 242 }	76	1482
Stop-motion for mules.	F. Lussier	553,195	Jan. 14	1288	312	74	256
Stop-motion spoon for machines for preparing slivers.	O. L. Humphrey	566,983	Sept. 1	439	103	76	1364
Stopper:							
See Basin or bath-tub stopper.	Bottle valve-stopper.						
stopper.	Leak-stopper.						
Bottle-stopper.	Valve-stopper.						
Bottle cap-stopper.							
Stopper	E. L. Brown	563,132	June 30	3665	877	75	2143
Stopper-fastener	W. R. Shurtleff	556,378	Mar. 17	1635	383	74	1467
Stopper-lock	D. F. Graham	572,160	Dec. 1	118	28	77	1300
Stopple sprinkling device	A. G. Sanford	570,716	Nov. 3	549	127	77	740
Storage and delivery system	G. E. Pancost	571,389	Nov. 17	1709	406	77	999
Storage battery	W. J. Still	563,428	July 7	330	74	76	65
Storage battery	A. F. Vetter	557,920	Apr. 7	698	167	75	132
Storage battery. Electric	T. W. Allan	571,059	Nov. 10	1142	267	77	880
Storage-receptacle	A. B. Schofield	571,844	Nov. 24	2510	594	77	1167
Storage-receptacle	A. B. Schofield	571,845	Nov. 24	2511	594	77	1167
Storage tank. Fluid	P. H. Berg	555,034	Feb. 18	2181	520	74	943
Store and display box. Stock-protecting	L. F. Bowman	561,085	June 2	12	3	75	1369
Store-service apparatus	W. R. Cole	566,139	Aug. 18	2172	528	76	1061
Store-service apparatus	J. T. Cowley	562,584	June 23	2662	{ 644 645 }	75	1931
Store-service apparatus	E. A. Fordyce	570,163	Oct. 27	2539	603	77	520
Store-service apparatus	J. H. Goodfellow	568,440	Sept. 29	2985	718	76	1894
Store-service apparatus	J. H. Goodfellow	568,441	Sept. 29	2986	718	76	1895
Store-service apparatus	J. J. Weldon	567,701	Sept. 15	1686	406	76	1623
Storm-protector	G. W. Harmer	554,121	Feb. 4	596	134	74	613
Stove	H. F. Bartlett	557,537	Apr. 7	9	3	75	4
Stove	W. C. Dinmock	557,775	Apr. 7	454	107	75	86
Stove	B. Hellmann, B. Ludikar, and F. Suda	564,996	Aug. 4	65	15	76	629
Stove	L. W. Hemp	571,678	Nov. 24	2569	609	77	1178
Stove	C. L. Hofmann	557,071	Mar. 24	2-22	672	74	1709
Stove	R. A. Huncilman and T. M. Barbee	562,830	June 30	3105	752	75	2032
Stove	L. Kahn and E. D. Allen	562,833	June 30	3110	753	75	2033
Stove	T. R. Kennedy	574,334	Dec. 29	4087	{ 970 971 }	77	2113
Stove	A. M. Lanner	567,398	Sept. 8	1188	284	76	1513
Stove	G. R. Moon	560,274	May 19	1719	390	75	1070
Stove	A. Ohnemus	565,785	Aug. 11	1531	373	76	921
Stove	F. J. Pribyl	556,938	Mar. 24	2593	610	74	1663
Stove	J. P. Rasmussen and J. Oliver	559,207	Apr. 28	3011	728	75	618
Stove. Air-tight heating	W. M. Milburn	564,631	July 28	2447	576	76	499
Stove and burner. Portable	J. P. Peters	572,908	Dec. 8	1422	343	77	1572
Stove and grate	B. Woodhull	564,677	July 28	2512	594	76	512
Stove and grate. Combined gas	J. F. Donahoe	567,226	Sept. 8	857	{ 204 205 }	76	1455
Stove and heater. Gas	T. Batty	571,916	Nov. 24	2653	629	77	1193

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Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Stove and water-heater. Combined.....	F. L. Rice	559,606	May 5	436	103	75	768
Stove attachment	H. V. Fernald	554,997	Feb. 18	2117	503	74	933
Stove attachment	S. J. Perrault and T. L. Bauer	573,793	Dec. 22	3053	723	77	1911
Stove burner. Gas.....	M. L. Nyberg and J. F. Skoog	557,506	Mar. 31	3618	867	74	1878
Stove burner. Gas.....	P. G. Van Wie	559,236	Apr. 28	3081	744	75	630
Stove. Cabinet.....	M. Knapp	559,033	Apr. 28	2662	{ 648 649 }	75	552
Stove. Combined fuel and gas	W. D. Southard	558,618	Apr. 21	1942	471	75	399
Stove. Combined steam and hot-water	J. E. Dame	560,693	May 26	2502	{ 574 575 }	75	1227
Stove. Coal.....	G. W. Cope	569,176	Oct. 13	787	184	77	166
Stove. Cooking.....	J. E. Armstrong.....	569,397	Oct. 13	1171	278	77	239
Stove. Cooking.....	S. Boal	560,676	May 26	2470	566	75	1220
Stove. Cooking.....	W. C. Eymann	563,028	June 30	3467	834	75	2106
Stove. Cooking.....	A. W. Walker	561,364	June 2	532	134	75	1472
Stove. Cooking.....	D. C. Wallace	553,274	Jan. 21	1429	346	74	296
Stove. Cooking.....	F. Will	558,626	Apr. 21	1956	474	75	402
Stove. Cooking.....	F. Will. (Reissue)	11,563	Aug. 18	2397	588	76	1105
Stove-cover and griddle. Combined	G. Fenton	561,507	June 2	790	192	75	1520
Stove-door hinge	A. E. Detwiler	553,484	Jan. 21	1786	426	74	362
Stove. Double-drum heating.....	J. Fleming	564,189	July 21	1692	396	76	344
Stove. Folding.....	W. H. Enfield	555,082	Feb. 25	2287	{ 544 545 }	74	979
Stove. Folding or portable	C. A. Cook	554,334	Feb. 11	961	222	74	698
Stove for cooking, &c. Gas.....	R. G. Finlay	554,253	Feb. 11	820	187	74	671
Stove. Gas.....	V. W. Blanchard	569,085	Oct. 6	634	145	77	121
Stove. Gas.....	V. W. Blanchard	569,086	Oct. 6	636	145	77	122
Stove. Gas.....	T. A. Bryan	564,681	July 23	2519	596	76	513
Stove. Gas.....	L. Kahn	560,357	May 19	1861	{ 424 425 }	75	1094
Stove. Gas.....	R. Morton and R. Pringle	557,857	Apr. 7	592	141	75	112
Stove gas-conducting device and damper	J. A. Carroll and W. Brooks	559,675	May 5	549	128	75	787
Stove. Gas heating.....	A. L. Pitney	554,197	Feb. 4	714	162	74	636
Stove. Gas or oil	S. L. Richards	570,957	Nov. 10	974	227	77	848
Stove. Gasolene	A. B. Hutchins	570,482	Nov. 3	78	18, 19	77	652
Stove heat-regulator. Cooking.....	L. Johnson and D. Fridlund	554,343	Feb. 11	977	226	74	700
Stove-heater	E. Monakay	565,495	Aug. 11	1025	246	76	825
Stove. Heating.....	W. and I. Darby and J. H. Punchard	569,816	Oct. 20	1938	461	77	393
Stove. Heating.....	A. G. Gray	561,662	June 9	1066	258	75	1596
Stove. Heating.....	F. V. Knauss	552,911	Jan. 14	796	193	74	162
Stove. Heating.....	W. H. Loy	567,034	Sept. 1	530	124	76	1382
Stove. Heating.....	J. P. Lynott	561,408	June 2	610	152	75	1486
Stove. Heating.....	W. N. Moore	562,014	June 16	1693	412	75	1735
Stove. Heating.....	F. Munson	567,546	Sept. 8	1414	340	76	1555
Stove. Heating.....	B. F. Whelden	555,414	Feb. 25	2860	675	74	1088
Stove. Heating.....	W. L. Wilkinson	562,875	June 30	3190	772	75	2049
Stove. Heating.....	J. Wilson	555,353	Feb. 25	2759	646	74	1068
Stove. Heating and ventilating	J. D. Barrier	564,817	July 28	2759	656	76	554
Stove heating attachment. Oil.....	W. and I. Darby	571,722	Nov. 17	2275	546	77	1103
Stove. Hot-blast	G. W. McClure	573,900	Dec. 29	3257	776	77	1963
Stove. Hot-blast	G. W. McClure	573,901	Dec. 29	3259	777	77	1963
Stove. Hot-blast	G. W. McClure	573,902	Dec. 29	3260	{ 777 778 }	77	1964
Stove. Hot-blast	G. W. McClure	574,041	Dec. 29	3526	842	77	2011
Stove. Hot-blast	F. C. Roberts	570,104	Oct. 27	2437	579	77	501
Stove. Hydrocarbon heating.....	H. Ruppel	564,259	July 21	1799	{ 421 422 }	76	364
Stove. Lamp.....	R. J. Gillham	559,277	Apr. 28	3149	761	75	642
Stove. Lamp.....	J. Hirschhorn	567,943	Sept. 15	2095	{ 504 505 }	76	1701
Stove. Lamp.....	M. H. Sinclair	562,254	June 16	2093	508	75	1808
Stove. Lamp.....	C. S. Upton	559,153	Apr. 28	2919	705	75	599
Stove. Lamp.....	W. H. Wilder	570,527	Nov. 3	161	39, 40	77	668
Stove-leg	E. L. Cole	553,152	Jan. 14	1202	293	74	241
Stove-leg	J. A. Partridge	554,832	Feb. 18	1819	426	74	879
Stove-leg	A. Staley	554,381	Feb. 11	1034	240	74	712
Stove-lid	G. B. Littlefield	570,937	Nov. 10	942	219	77	843
Stove-lid lifter	J. W. Smith	554,150	Feb. 4	644	146	74	623
Stove-lid lifters, &c. Device for suspending	J. F. Kerstetter	558,817	Apr. 21	2285	555	75	462
Stove-lifter-suspending device	J. L. Kerstetter	567,597	Sept. 15	1514	365	76	1589
Stove. Oil.....	E. F. Depuy	563,574	July 7	577	{ 133 134 }	76	108
Stove. Oil.....	A. A. Kinne	568,448	Sept. 29	2998	721	76	1897
Stove. Oil.....	A. R. Welch	553,441	Jan. 21	1712	408	74	348
Stove oil-burning attachment	P. Vanborn	563,897	July 14	1158	272	76	232
Stove or apparatus for heating air	S. C. Davidson	553,576	Jan. 28	1963	{ 464 465 466 }	74	412
Stove or furnace. Downdraft.....	E. D. McLean	574,210	Dec. 29	3878	923	77	2073
Stove or furnace grate	E. Fales	574,315	Dec. 29	4054	963	77	2107
Stove or furnace. Heating	P. W. Elliott	567,126	Sept. 8	701	163	76	1426
Stove or furnace. Hot-air	A. Anderson	556,913	Mar. 24	2555	602	74	1656
Stove or range	C. B. Gregory	558,801	Apr. 21	2261	546	75	457
Stove or range	M. M. Koch	560,138	May 12	1455	327	75	971
Stove or range	M. M. Koch	566,773	Sept. 1	67	17	76	1293
Stove or range	M. M. Koch	574,336	Dec. 29	4091	971	77	2114
Stove or range	M. M. Koch and J. Erben	568,769	Oct. 6	100	23, 24	77	21
Stove or range	M. M. Koch and J. Erben	570,485	Nov. 3	88	20	77	655
Stove or range. Cooking	J. H. Magee	572,265	Dec. 1	303	72	77	1337
Stovepipe	W. G. Avery	562,697	June 23	2843	690	75	1964
Stovepipe	C. A. Drumm, A. Krans, and H. Goedjen	559,442	May 5	168	37	75	714
Stovepipe	C. A. Smith	572,076	Nov. 24	2949	634	77	1249
Stovepipe attachment.....	G. G. Calderwood	555,562	Mar. 3	132	30	74	1154

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Stovepipe-cleaner	W. L. Gerard	564,988	Aug. 4	48	11	76	626
Stovepipe-coupling	G. D. Bateman	556,174	Mar. 10	1230	287	74	1377
Stovepipe-fastener	J. C. Stone	562,984	June 30	3396	816	75	2093
Stovepipe-holder	F. J. Norton	569,123	Oct. 6	692	162	77	132
Stovepipe-holder	D. R. Parks	560,532	May 19	2156	493	75	1147
Stovepipe-jointing machine	A. Kaiser	559,714	May 5	606	145	75	798
Stovepipe-shelf	A. H. Smith	572,381	Dec. 1	540	128	77	1381
Stovepipe-thimble	L. Arnold and M. Lary	573,954	Dec. 29	3356	804	77	1981
Stovepipe-thimble	J. R. Bostwick	569,165	Oct. 13	772	179	77	163
Stovepipe-thimble	J. J. Schaab	555,267	Feb. 25	2606	611	74	1039
Stovepipe-thimble	A. M. Schimland J. C. Schwanengel	558,525	Apr. 21	1791	435	75	372
Stovepipe-thimble and flue-stopper. Combined	J. O. and J. S. Burch	560,969	May 26	2984	685	75	1318
Stovepipe-tool	A. B. Claflin	554,982	Feb. 18	2079	495	74	926
Stovepipes, &c. Water-pot for	C. W. King	561,261	June 2	311	79	75	1428
Stove. Pocket	D. M. B. H. Cochrane	566,662	Aug. 25	3055	746	76	1246
Stove-polish	F. E. Lofgreen and W. H. Whisler	557,842	Apr. 7	568		75	107
Stove. Portable cooking	A. S. Tomkins	560,445	May 19	2026	463	75	1124
Stove. Pottery-ware	J. Salomon	559,867	May 12	948	212	75	875
Stove, range, &c.	M. M. Koch	556,543	Mar. 17	1941	453	74	1525
Stove, range, or furnace grate	A. Sloan	562,255	June 16	2095	508	75	1808
Stove-shield	H. L. Pierce	559,083	Apr. 28	2745	667	75	567
Stove. Straw-burning	C. W. Barzee	553,148	Jan. 14	1905	291	74	240
Stove. Straw-burning	W. P. Hitchings	569,557	Oct. 13	1451	343	77	290
Stove-truck	W. H. Neeb	558,561	Apr. 21	1838	447	75	381
Stove utensil-receptacle	E. M. Brewster	570,275	Oct. 27	2749	654	77	559
Stove. Vapor	A. A. Casler	566,710	Aug. 25	3147	769 770	76	1261
Stove. Vapor	S. Daniels	568,018	Sept. 22	2241	540 541	76	1740
Stove. Vapor	S. Daniels	568,311	Sept. 22	2766	666	76	1839
Stove. Vapor	T. Johnson	555,450	Feb. 25	2944	700	74	1103
Stove. Vapor	J. Kirby, Jr., and I. Kinsey	567,479	Sept. 8	1317	317 318	76	1537
Stove. Vapor	F. G. Palmer	563,982	July 14	1311	305 306	76	259
Stove. Vapor	W. H. Woodard	554,207	Feb. 4	734	167	74	640
Stoves. Automatic lighter for gas	W. J. Gurd	555,765	Mar. 3	466	111	74	1214
Stoves. Deflector-plate for gas	J. M. Murphy	554,528	Feb. 11	1287	302	74	760
Stoves. Draft device for air-tight heating	T. B. Gilmour	568,600	Sept. 29	3316	795	76	1955
Stoves. Filter for gasolene	J. Hussey	555,482	Feb. 25	3003	715	74	1114
Stoves. Heating attachment for gas or other	F. L. Rice	555,466	Feb. 25	2973	708	74	1108
Stoves. Oil or gas burner for	G. C. Eselin	562,595	June 23	2688	649	75	1935
Stoves or ranges. Oven-door for cooking	M. L. Everest	572,199	Dec. 1	179	44	77	1312
Stoves. Removable mica frame or holder for heating	F. V. Knauss	571,597	Nov. 17	2065	495	77	1063
Stoves. Safety-casing for gasolene	J. A. Ruth	567,415	Sept. 8	1213	290	76	1518
Stoves. Safety-casing for oil or gasolene	J. A. Ruth	554,053	Feb. 4	423	93	74	582
Stoves. Safety-tank for gasolene	A. Midgley	563,500	July 7	448	104	76	86
Stoves. Ventilating attachment for hot-blast	D. Cave	562,708	June 23	2871	697	75	1970
Strainer	G. R. Meloney	563,864	July 14	1090	256	76	219
Strainer	G. O. Walton	569,260	Oct. 13	938	225	77	195
Strainer. Coffee-pot	A. J. Massey and J. W. Stallings	559,459	May 5	195	42	75	719
Strainer. Eaves-trough	S. A. Twist	571,711	Nov. 17	2257	542	77	1100
Strainer for coffee-pots, &c.	J. A. McClellan	558,512	Apr. 21	1771	430	75	368
Strainer for discharge-spouts for washbasins	A. Duke	572,788	Dec. 8	1240	300	77	1533
Strainer for eaves-troughs. Automatic	S. E. Fowler	565,858	Aug. 11	1668	410	76	947
Strainer. Hop	G. Schacke	558,572	Apr. 21	1868	453	75	386
Strainer. Purée	J. Prince	565,089	Aug. 4	238	57, 58	76	660
Strainer. Tea	R. S. Hamilton	572,482	Dec. 1	687	164	77	1410
Strainer. Tea	A. R. Pritchard	555,736	Mar. 3	428	99	74	1206
Strainer. Tea or coffee pot	T. Gaddes	569,188	Oct. 13	805	188	77	169
Strap:							
See Breast-strap.	Eccentric-strap.						
Breeching-strap.	Horse neck-strap.						
Box-strap.	Kicking-strap.						
Car hand-strap.	Loom lug-strap.						
Car-holding-strap.	Shawl-strap.						
Child-carrying strap.							
Strap-fastening	K. Esterházy	553,399	Jan. 21	1646	393	74	336
Strap fastening and tightening device	W. J. Davis and J. Warlick	560,694	May 26	2505	575	75	1227
Strap-machine	L. H. Leibe and J. A. Vanderpool	554,069	Feb. 4	486	109 110	74	594
Straw-carrier and grain-separator. Combined	O. H. Anderson	560,768	May 26	2631	604	75	1251
Straw-harpoon	J. A. McGreevey	563,790	July 14	941	224	76	193
Straw-stacker	J. B. Bartholomew	555,066	Feb. 25	2250	537	74	971
Straw-stacker	J. B. Bartholomew	556,487	Mar. 17	1829	426 427	74	1505
Straw-stacker	E. Huber and J. W. Miller	570,803	Nov. 3	695	159	77	767
Straw-stacker	P. Knapp	555,379	Feb. 25	2805	659 660	74	1077
Straw-stacker attachment	N. Cornish	561,093	June 2	29	8	75	1373
Straw-stacker. Pneumatic	H. Behrens	566,491	Aug. 25	2815	686	76	1199
Straw-stacker. Pneumatic	A. Fraizer	559,521	May 5	292	69	75	736
Straw-stacker. Pneumatic	E. Huber and J. W. Miller	555,902	Mar. 3	708	171	74	1262
Straw-stacker. Pneumatic	A. A. Russell	556,776	Mar. 24	2331	549	74	1614
Straw-stacker. Pneumatic	J. S. Smith	568,883	Oct. 6	229	66, 67	77	55
Straw-stacker. Telescopic	F. F. Landis	562,227	June 16	2050	496	75	1801
Straw-stackers. Deflector pipe for pneumatic	A. E. Price	557,020	Mar. 24	2752	652	74	1694
Straw-stacking attachment	F. W. Robinson	558,443	Apr. 21	2324	566	75	470
Streams, &c. Device for inspecting bottoms of	E. L. Hubbard	572,903	Dec. 8	1270	206	77	1539
Street-cleaner	R. W. Furnas	564,013	July 14	1361	317	76	269
Street-cleaning machine	C. Beckwith	554,168	Feb. 4	680	153	74	630
Street-indicator	C. Eby	553,058	Jan. 14	1039	253	74	208
Street-indicator	W. Straley	555,226	Feb. 25	2528	596	74	1025
Street or station indicator. Electric	H. Alwies	571,728	Nov. 24	2322	555	77	1131

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page
Street-roller. Steam.....	C. O. Heggem.....	554,421	Feb. 11	1109	258 259	74	726
Street-sprinkler.....	A. P. Cross and I. H. Hill.....	571,649	Nov. 17	2149	516	77	1080
Street-sprinkler.....	E. Henry.....	556,097	Mar. 10	1088	259	74	1350
Street-sprinkler.....	H. W. Knight.....	572,640	Dec. 8	972	234	77	1483
Street-sprinkling apparatus.....	J. S. McGehee.....	568,540	Sept. 29	3184	767	76	1930
Street-sweeper.....	M. B. Atkinson.....	571,183	Nov. 10	1365	319	77	920
Street-sweeper.....	F. Bain.....	571,891	Nov. 24	2597	616	77	1183
Street-sweeper.....	J. F. S. Branth.....	552,887	Jan. 14	736	179	74	152
Street-sweeper.....	J. F. S. Branth.....	552,888	Jan. 14	739	180	74	152
Street-sweeper.....	C. B. Brooks.....	556,711	Mar. 17	2190	512	74	1572
Street-sweeper.....	C. B. Brooks, G. M. Hallstead, and P. S. Page.....	558,719	Apr. 21	2119	510	75	431
Street-sweeper.....	M. G. Bunnell.....	556,331	Mar. 17	1547	361	74	1450
Street-sweeper.....	H. L. Carpenter.....	555,473	Feb. 25	2984	710 711	74	1110
Street-sweeper.....	T. Ferry.....	555,944	Mar. 10	793	191	74	1297
Street-sweeper.....	A. Gartner.....	572,790	Dec. 8	1244	301	77	1533
Street-sweeper.....	A. Gartner.....	572,791	Dec. 8	1245	301	77	1534
Street-sweeper.....	O. Goschel and B. Sutter.....	570,749	Nov. 3	611	140	77	750
Street-sweeper.....	O. Goschel and B. Sutter.....	570,750	Nov. 3	613	141	77	751
Street-sweeper.....	D. F. Graham.....	553,029	Jan. 14	983	238 239	74	198
Street-sweeper.....	A. Hankey.....	553,753	Jan. 28	2261	536	74	466
Street-sweeper.....	E. L. Hawks.....	553,065	Jan. 14	1052	257	74	211
Street-sweeper.....	E. L. Hawks and D. F. Graham.....	553,066	Jan. 14	1054	257 258	74	211
Street-sweeper.....	P. Jacobson and C. E. Cain.....	569,644	Oct. 20	1625	383 384	77	338
Street-sweeper.....	W. A. McGuire and H. M. Perry.....	557,416	Mar. 31	3458	828 829	74	1848
Street-sweeper.....	H. Mueller, Jr.....	563,869	July 14	1099	258 259	76	221
Street-sweeper.....	H. Mueller, Jr.....	563,870	July 14	1101	259 260	76	222
Street-sweeper.....	E. O. Pease.....	568,368	Sept. 29	2866	689	76	1872
Street-sweeper.....	T. J. Robertson.....	554,732	Feb. 18	1642	388	74	844
Street-sweeper.....	T. J. Robertson.....	568,958	Oct. 6	416	93	77	79
Street-sweeper.....	F. C. Williams.....	557,297	Mar. 31	3244	778 779	74	1806
Street-sweeper dust-proof bag.....	C. B. Brooks.....	560,154	May 12	1483	335	75	976
Stretcher. Folding.....	R. A. Dunn.....	558,550	Apr. 21	1824	444	75	379
Stretcher. Folding.....	H. Wagner and M. J. Dwyer.....	567,524	Sept. 8	1381	332	76	1548
Stretcher-frame.....	W. A. Arbogast and W. F. Keller.....	555,278	Feb. 25	2627	616	74	1043
Strictures by electrolysis. Instrument for treatment of.....	J. A. Fort.....	552,832	Jan. 7	624	152	74	117
Striking-bag support.....	W. J. Westaway.....	554,756	Feb. 18	1683	397	74	852
Striking powers. Coin-controlled apparatus for testing.....	H. K. Hansen.....	574,324	Dec. 29	4068	967	77	2110
Stringed instrument.....	E. McNichol.....	572,906	Dec. 8	1419	342	77	1571
String holder.....	W. A. Campbell and S. Kiefer.....	563,013	June 30	3439	827	75	2101
Stringed-instrument bridge.....	H. Ahlstrand.....	566,835	Sept. 1	164	38	76	1313
Stringed instruments. Wrist-guide and tailpiece for.....	W. H. Richardson.....	569,032	Oct. 6	545	126	77	103
Stripping tool. Ornamental.....	F. G. Wise.....	557,467	Mar. 31	3537	845	74	1863
Stripping device.....	F. Deming.....	560,480	May 19	2081	474	75	1133
Structural shape and column.....	F. H. Kindl.....	559,335	Apr. 28	3252	785 786	75	662
Stubble-rejecter.....	H. Pearson.....	571,138	Nov. 10	1301	302	77	908
Stud and scarf-pin securer. Combination.....	W. H. Capel.....	567,377	Sept. 8	1152	276	76	1506
Stud. Clasp.....	H. Kerngood.....	564,889	July 28	2877	689	76	577
Studs, buttons, &c., to wearing-apparel. Means for attaching.....	G. W. Younger.....	573,317	Dec. 15	2185	521	77	1729
Stuffing-box.....	L. C. S. Frick.....	571,759	Nov. 24	2365	565	77	1139
Stuffing-box for propeller-shafts.....	J. J. Bates.....	571,741	Nov. 24	2330	557	77	1132
Stuffing-box for pumps, &c.....	E. C. Butts.....	570,726	Nov. 3	563	130	77	742
Stuffing-box gland. Separable.....	W. R. Reece and J. B. Primm.....	564,028	July 14	1387	323	76	273
Stamp-cutting machine.....	J. B. Wendt.....	559,241	Apr. 28	3092	746	75	632
Stamp-extractor.....	J. J. Milne.....	569,507	Oct. 13	1360	319	77	272
Stamp-extractor.....	J. C. Sharp.....	555,977	Mar. 10	849	203	74	1309
Stamp-puller.....	F. H. Dean.....	572,598	Dec. 8	899	217	77	1468
Stamp-puller.....	A. S. Oberson.....	567,039	Sept. 1	541	126 127	76	1384
Stamp-puller.....	L. J. Widmer.....	557,630	Apr. 7	183	47	75	36
Submerged pipe.....	M. G. Schinke.....	566,410	Aug. 25	2646	646	76	1168
Sucker-rod socket.....	J. W. Pennell, Jr., and E. D. Briggs.....	562,238	June 16	2068	501	75	1804
Sucker-rod wrench.....	C. L. Dunham.....	563,848	July 14	1057	249	76	213
Suction-connection device.....	J. S. Taylor and C. Davies.....	566,816	Sept. 1	129	31	76	1306
Suction-pipe for tanks.....	C. Linstrom.....	568,620	Sept. 29	3333	798	76	1959
Suction-tank for raising liquids, &c.....	R. Wegner.....	553,182	Jan. 14	1267	306	74	252
Sugar. Converting starchy material into.....	J. Takamine.....	562,103	June 16	1853	75	1763	
Sugar-decolorizing apparatus.....	M. Pridham.....	574,000	Dec. 29	3452	826	77	1998
Sugar. Manufacturing.....	O. A. Biemann.....	557,642	Apr. 7	219	75	42	
Sugar. Refining.....	O. A. Biemann.....	557,643	Apr. 7	221	75	42	
Sugar, &c. Treating.....	F. G. Wiechmann.....	553,974	Feb. 4	312	74	562	
Suint and product resulting therefrom. Treating.....	H. T. Vulté.....	571,870	Nov. 24	2557	77	1175	
Suint. Separating constituents of.....	M. Ekenberg.....	558,788	Apr. 21	2242	75	454	
Suit-hanger.....	M. A. Gates.....	556,814	Mar. 24	2391	562	74	1626
Sulphids. Treating.....	F. P. Dewey.....	561,544	June 2	865	75	1533	
Sulphids. Treating metallic.....	V. Engelhardt and A. Nettel.....	568,843	Oct. 6	214	51	77	42
Sulphids. Treating mixtures containing.....	F. P. Dewey.....	561,571	June 9	917	75	1568	
Sulky.....	C. E. Brockman.....	562,702	June 23	2849	692	75	1965
Sulky.....	E. S. Keeler.....	571,003	Nov. 10	1050	245	77	862
Sulky. Racing.....	H. F. Engels.....	563,364	July 7	221	50	76	45

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Sunshade. Bicycle.....	J. Murgatroyd.....	553,735	Jan. 28	2235	529	74	461
Superheater.....	J. W. Casey.....	562,575	June 23	2649	642	75	1928
Superheater.....	O. Hunger.....	552,906	Jan. 14	790	191	74	161
Superheater.....	O. Hunger.....	563,763	Oct. 6	90	21	77	20
Superheaters. Non-oxidizable lining for	L. Stevens.....	569,251	Oct. 13	927	221	77	192
Supply apparatus.....	F. H. Richards.....	559,216	Apr. 28	3056	737	75	625
Support. Adjustable.....	F. A. Roberts.....	573,923	Dec. 29	3295	788	77	1970
Support. Adjustable.....	O. C. White.....	566,360	Aug. 25	2554	624	76	1150
Supporting device.....	F. H. Chamberlin.....	559,567	May 5	372	90	75	755
Supporting-frame for landing-nets, &c.	D. Hunt.....	559,802	May 12	784	188	75	845
Supporting-s and	A. Sommerfeld.....	559,415	May 5	126	27	75	706
Suppository and making same	D. Genese.....	553,907	Feb. 4	167	39	74	540
Suppository-machine.....	J. G. Blount.....	569,985	Oct. 20	2222	527	77	445
Suppository-machine.....	D. Genese.....	554,178	Feb. 4	693	156	74	632
Surface-gage.....	L. S. Starrett and C. P. Fay	556,703	Mar. 17	2178	509	74	1569
Surface-guard.....	J. L. Neff.....	561,024	May 26	3069	707	75	1335
Surgical and dental chair	A. P. Gould.....	562,391	June 23	2327	557	75	1868
Surgical apparatus.....	W. H. Voss.....	572,139	Dec. 1	83	18	77	1293
Surgical appliance.....	A. J. Carpenter.....	566,657	Aug. 25	3050	745	76	1245
Surgical engine.....	A. W. Browne.....	562,800	June 30	3035	733	75	2019
Surgical instrument.....	R. A. Bagnall.....	559,350	May 5	3	1	75	681
Surgical-instrument case.....	E. Lee.....	570,936	Nov. 10	940	219	77	842
Surgical instruments, &c. Sterilizer for.	E. M. Lundholm.....	553,561	Jan. 28	1934	457	74	405
Surgical knockdown table	A. Hay.....	557,385	Mar. 31	3399	816	74	1837
Surgical operations. Separable table for	J. Nau.....	558,297	Apr. 14	1385	338	75	279
Surveying-instrument.....	L. B. Denison.....	552,751	Jan. 7	455	114	74	86
Surveying-instrument.....	G. Legh and H. W. Maclear	554,190	Feb. 4	707	160	74	635
Surveyor's monument.....	R. J. Northam.....	564,025	July 14	1380	321	76	272
Suspender cast-off.....	C. R. Harris and W. Freeman	554,930	Feb. 18	1992	471	74	910
Suspender cast-off.....	C. R. Harris and W. Freeman	555,004	Feb. 18	2128	506	74	935
Suspender-end clasp.....	A. Silberman.....	568,588	Sept. 29	3276	787	76	1947
Suspender-ends. Hook and eye for.	J. T. Barrow.....	563,731	July 14	841	200	76	173
Suspender-rack.....	E. K. Zaring.....	559,655	May 5	523	120	75	782
Suspender-slide.....	B. G. Corser.....	563,128	Sept. 22	2461	591	76	1780
Suspenders.....	L. S. Cooney.....	562,582	June 23	2658	644	75	1930
Suspenders.....	C. Erlanger.....	558,268	Apr. 14	1345	329	75	271
Suspenders.....	H. P. Geisler.....	571,114	Nov. 10	1259	292	77	900
Suspenders.....	R. D. Harvey.....	559,058	Apr. 28	2707	659	75	559
Suspenders.....	J. S. Holt and W. W. Eldred	567,831	Sept. 15	1916	459	76	1667
Suspenders.....	C. G. Matthews.....	564,829	July 28	2778	661	76	558
Suspenders and shoulder-braces. Combined	G. R. McCoy.....	560,276	May 19	1724	391	75	1071
Suspension-wheel.....	A. E. Morey.....	563,782	July 14	926	221	76	129
Swaging or welding machine.....	S. P. Cooke.....	564,972	Aug. 4	24	5	76	621
Swaging-machine.....	J. C. Taft.....	573,051	Dec. 15	1701	407	77	1641
Swaging machinery.....	W. O. Bement.....	555,635	Mar. 3	260	60, 61	74	1177
Swaging machinery.....	W. O. Bement.....	555,721	Mar. 3	400	93	74	1201
Swaging machinery.....	A. H. Dean.....	555,641	Mar. 3	275	64	74	1180
Swaging round articles. Machine for.	W. H. Dayton.....	558,783	Apr. 21	2228	536	75	452
Swath-turning machine.....	G. E. Nelson.....	557,417	Mar. 31	3460	829	74	1848
Sweat-pad fastener.....	S. I. Fields.....	554,668	Feb. 18	1542	364	74	824
Sweep.....	A. Schoenfelder.....	559,814	May 12	827	194	75	853
Sweep brace. Heel.....	A. C. Ferrell and T. J. Hamrick	552,829	Jan. 7	620	151	74	117
Sweep-rake.....	A. Puntenev.....	567,771	Sept. 15	1800	432	76	1644
Sweepings. Utensil for holding	J. F. Schultz.....	554,840	Feb. 18	1835	431	74	881
Swift or reel.....	J. W. Foster.....	554,620	Feb. 11	1450	340	74	791
Swimming and life-saving device.	H. Heckler.....	560,165	May 12	1505	341	75	980
Swimming device.....	D. B. Haven.....	571,858	Nov. 24	2534	601	77	1171
Swimming device.....	W. Luce.....	560,590	May 19	2260	518	75	1166
Swing.....	W. A. Bickford.....	561,368	June 2	542	136	75	1474
Swing.....	J. A. Butler.....	563,653	July 7	694	163	76	131
Swing.....	W. E. Clark.....	560,609	May 19	2296	526	75	1172
Swing.....	W. J. Hall.....	565,165	Aug. 4	404	97	76	692
Swing.....	W. Howard.....	556,981	Mar. 24	2664	625	74	1677
Swing.....	H. O. Olson.....	566,529	Aug. 25	2871	698	76	1210
Swing.....	M. W. Reeves.....	557,882	Apr. 7	628	149	75	118
Swing.....	W. H. Richmond.....	555,887	Mar. 3	679	164	74	1255
Swing.....	G. Rockwell.....	572,773	Dec. 8	1214	294	77	1528
Swing fan attachment.....	J. S. Alexander.....	557,533	Apr. 7	3	1	75	3
Swing. Revolving.....	G. H. Carlson.....	554,215	Feb. 4	744	169	74	642
Swing. Revolving.....	C. W. Rodenhafer.....	555,338	Feb. 25	2735	641	74	1064
Swing. Revolving-chair.....	J. N. and H. Rohr.....	570,505	Nov. 3	125	30, 31	77	661
Swinging gate.....	J. E. Copeland and J. A. Nesmith	564,870	July 28	2847	682	76	572
Swinging gate.....	A. E. Lyan.....	559,141	Apr. 28	2903	701	75	596
Swinging gate.....	R. D. Miller.....	563,393	July 7	265	59	76	53
Swinging gate.....	W. Rakestraw.....	553,134	Jan. 14	1174	285	74	256
Swinging gate. Lever-opening	A. C. Johnson.....	553,619	Jan. 28	2030	480	74	424
Switch:							
See Automatic switch. Pneumatic-despatch-tube							
Car-switch. Push-button switch.							
Car-track switch. Railway-switch.							
Contact-switch. Railway-track switch.							
Derailing-switch. Safety-switch.							
Despatch-tube switch. Snap-switch.							
Electric switch. Spring-jack switch.							
Electric-light switch. Telephone-switch.							
Electric-safety switch. Tramway-switch.							
Electric-snap-switch. Trolley-switch.							
Frogless switch. Trolley-track switch.							
Lamp-switch. Trolley-wheel switch.							
Overhead switch. Trolley-wire switch.							
Switch.....	E. Balzer.....	568,727	Oct. 6	5	2	77	3

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & Co.	Vol.	Page
Switch.....	F. Herman.....	563,376	July 7	243	55	76	49
Switch.....	E. M. Hewlett.....	573,146	Dec. 15	1867	450	77	1672
Switch.....	W. G. Lewis.....	557,404	Mar. 31	3440	824	74	1844
Switch.....	M. Miller.....	560,814	May 26	2701	621	75	1265
Switch.....	H. S. Webster.....	555,352	Feb. 25	2758	646	74	1068
Switch and fuse-block. Combined.....	E. H. Montgomery.....	559,340	Apr. 28	3260	787	75	663
Switch and mate.....	D. F. Carver.....	563,657	July 7	698	165	76	132
Switch and signal apparatus.....	E. H. Goodman and S. H. Stupakoff.....	554,927	Feb. 18	1988	470	74	909
Switch and signal apparatus.....	V. C. Spicer.....	553,477	Jan. 21	1773	422	74	360
Switch and signal machine. Interlocking.....	J. T. Cade.....	568,333	Sept. 29	2807	675	76	1862
Switchboard.....	D. M. Munro.....	560,275	May 19	1721	390	75	1070
					391		
Switchboard back connection.....	A. J. Wurts.....	564,679	July 28	2515	595	76	513
Switchboard. Electric.....	E. A. Fordyce.....	572,748	Dec. 8	1175	282	77	1521
Switchboard. Multiple.....	R. M. Andrews.....	565,823	Aug. 11	1593	390	76	932
Switchboard. Multiple.....	C. E. Scribner.....	552,728	Jan. 7	408	105	74	79
Switchboard-signal.....	I. H. Farnham.....	557,527	Mar. 31	3650	874	74	1823
Switchboard testing apparatus. Multiple.....	C. E. Scribner.....	557,708	Apr. 7	321	77	75	61
Switchboards. Needle-plug test system for multiple.....	C. E. Scribner.....	572,218	Dec. 1	215	53	77	1319
Switchboards. Test system for multiple.....	C. E. Scribner.....	574,006	Dec. 29	3464	829	77	2000
Switchboards. Testing apparatus for multiple.....	C. E. Scribner.....	563,323	July 7	160	36	76	33
Switch-box. Controllable.....	J. Van Vleck.....	560,766	May 26	2626	603	75	1250
Switch-conductor. Electrical.....	W. H. Sawyer.....	571,539	Nov. 17	1974	470	77	1047
Switch-lever locking mechanism.....	R. H. Canfield.....	573,567	Dec. 22	2651	630	77	1834
Switch-lock.....	J. C. Hayes.....	562,182	June 16	1983	480	75	1788
Switch mechanism. Electrically-actuated.....	G. W. Brown.....	570,373	Oct. 27	2956	702	77	592
Switch-opener.....	W. S. Fredericks.....	571,356	Nov. 17	1657	393	77	990
Switch-operating apparatus.....	I. Olmsted.....	568,542	Sept. 29	3188	768	76	1930
Switch-operating apparatus.....	C. Thornewell.....	568,815	Oct. 6	174	42	77	35
Switch-operating device.....	E. D. Farnsworth.....	572,292	Dec. 1	361	86	77	1348
Switch-signal. Interlocking.....	B. B. Morgan.....	572,270	Dec. 1	317	75	77	1339
Switch signal-wire compensator. Distant.....	J. R. and J. W. Jones.....	573,882	Dec. 29	3230	769	77	1938
Switch-stand.....	A. E. Flickinger.....	563,582	July 7	589	137	76	110
Switch-stand.....	C. E. Foster.....	570,390	Oct. 27	2994	709	77	604
Switch-stand.....	M. G. Hubbard, Jr.....	565,899	Aug. 13	1733	425	76	976
Switch-throwing device.....	W. H. Reece.....	571,733	Nov. 17	2312	552	77	1110
Switching apparatus. Electric.....	W. W. Dean.....	559,792	May 12	766	184	75	841
Switching apparatus. Electrical.....	F. W. Jones.....	573,601	Dec. 22	2711	644	77	1846
Swivel.....	W. A. Jameson.....	556,929	Mar. 24	2520	607	74	1661
Swivel-coupling.....	B. Henley.....	558,808	Apr. 21	2272	550	75	459
					551		
Swivel-hook.....	J. Petermann, Jr.....	557,601	Apr. 7	127	33	75	25
Syringe.....	F. de Backer.....	558,756	Apr. 21	2186	525	75	444
Syringe.....	D. T. Bentley.....	570,245	Oct. 27	2692	639	77	548
Syringe.....	R. Beyer.....	554,614	Feb. 11	1443	338	74	789
Syringe.....	O. E. Bosworth.....	568,331	Sept. 29	2803	674	76	1861
Syringe.....	P. Finot.....	553,234	Jan. 21	1355	330	74	283
Syringe.....	I. Q. Gurnee.....	572,506	Dec. 1	731	174	77	1417
Syringe.....	S. Isaac.....	561,318	June 2	448	111	75	1457
Syringe.....	J. A. Maloney.....	565,480	Aug. 11	959	228	76	816
Syringe.....	W. Scheerer.....	562,425	June 23	2383	580	75	1879
Syringe.....	W. P. Shattuck.....	565,516	Aug. 11	1059	254	76	832
Syringe.....	J. Shearer.....	559,620	May 5	463	107	75	771
Syringe.....	W. B. Spencer.....	559,417	May 5	130	28	75	706
Syringe. Hypodermic.....	W. P. Mitchell and W. R. Gillespie.....	561,059	May 26	3128	721	75	1346
Syringe. Hypodermic.....	G. R. Schimmel.....	563,621	July 7	648	151	76	122
Syringe-nozzle.....	H. P. Scott.....	565,928	Aug. 18	1798	438	76	988
Syringe. Vaginal.....	A. C. Eggers.....	559,690	May 5	573	135	75	791
Syrup-cooler.....	J. Werner.....	561,297	June 2	412	102	75	1449
Syruping-machine. Multiple.....	F. A. Robbins.....	574,075	Dec. 29	3585	856	77	2022
T-bar.....	J. W. Rapp.....	557,147	Mar. 31	2960	708	74	1758
Table:							
See Adjustable table.	Ironing-table.						
Bandaging-table.	Kitchen-table.						
Billiard-table.	Knockdown table.						
Billiard and pool table.	Manicure-table.						
Cabinet-table.	Operating-table.						
Combination-table.	Paper-hanger's work-table.						
Drawing-table.	Rolling-mill feed-table.						
Enameling-table.	Rotary top table.						
Extension-table.	Self-waiting table.						
Folding table.	Surgical knockdown table.						
Folding and extension table.	Tailor's table.						
Game-table.	Work-table.						
Invalid's table.							
Table.....	E. E. Bennett.....	570,897	Nov. 10	574	203	77	829
Table.....	J. Bruss.....	573,960	Dec. 29	3377	808	77	1924
Table.....	A. Lange.....	572,643	Dec. 8	976	235	77	1484
Table.....	M. Lesser.....	563,668	July 7	731	172	76	137
Table.....	S. E. Paine.....	561,273	June 2	339	85	75	1435
Table.....	H. Schroeder.....	568,172	Sept. 22	2534	610	76	1794
Table.....	A. W. H. Wolters.....	560,456	May 19	2049	467	75	1127
Table. Amount-finding.....	C. E. Stewart.....	556,719	Mar. 17	2205	516	74	1575
Table and bath-tub. Combined.....	W. H. Link.....	568,197	Aug. 18	2261	553	76	1079
Table and bracket.....	M. Simon.....	553,267	Jan. 21	1415	344	74	294
Table and kit-case. Convertible.....	W. E. Baxter.....	557,044	Mar. 24	2784	662	74	1701
Table and kit-case. Convertible.....	W. E. Baxter.....	557,045	Mar. 24	2787	662	74	1701
					663		
Table-cover. Metallic.....	H. B. Kimball.....	562,226	June 16	2049	496	75	1801
Table implement.....	G. Messersmith.....	565,553	Aug. 11	1116	269	76	842
Table implement.....	J. Treibus.....	555,627	Mar. 3	218	57	74	1175
Table-leg. Detachable.....	S. B. Sigler.....	556,869	Mar. 24	2485	580	74	1644
Table-leveler.....	B. Wood.....	563,241	June 30	3843	921	75	2176

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Table-waiter	F. A. Clay	562,169	June 16	1958	475	75	1783
Table-waiter. Revolving	I. P. Richards	560,541	May 19	2168	495	75	1149
Tableaux vivants. Apparatus for producing	M. H. Kerner	570,255	Oct. 27	2711	645	77	553
Tablet	F. A. Schmidt	565,511	Aug. 11	1050	252	76	830
Tablet-compressing machine	H. L. Clark	573,443	Dec. 22	2438	{ 578 579 }	77	1794
Tablet-machine for stenographers' use	M. P. Bonebrake	571,149	Nov. 10	1320	307	77	912
Tablet-making machine	J. H. Loving	555,105	Feb. 25	2328	553	74	988
Tablet. Reversibly-supporting writing	D. I. Byers	569,169	Oct. 13	777	182	77	164
Tablet. School cabinet	W. Young	566,116	Aug. 18	2135	519	76	1054
Tabulator for type-writing, type-setting, or analogous machines	D. C. Williamson	559,921	May 12	1052	234	75	893
Tack	E. Kempshall	563,969	July 14	1292	302	76	255
Tack-delivering nozzle	C. E. Stewart	561,832	June 9	1380	331	75	1654
Tack-driving machine	J. E. Crisp	573,449	Dec. 22	2451	582	77	1796
Tack-driving machine	G. Ferguson	562,518	June 23	2535	616	75	1907
Tack-driving machine	H. E. Stevens	561,833	June 9	1381	331	75	1655
Tack-lifter	H. O. Detert	561,499	June 2	777	190	75	1517
Tack-machine	A. E. Conyers	563,017	June 30	3443	828	75	2102
Tack-machine rockers. Throw-off for	A. E. Conyers	563,018	June 30	3445	828	75	2102
Tack-making machine	G. H. Ryan	559,542	May 5	336	81	75	748
Tack-making machine	G. H. Ryan	561,285	June 2	394	98	75	1446
Tack or nail	W. O. Taylor	565,397	Aug. 4	809	192	76	767
Tack or nail machine	L. Goddu	552,903	Jan. 14	778	{ 189 190 }	74	159
Tack. Plumber's	J. B. Schmitt	553,021	Jan. 14	975	236	74	196
Tack. Plumber's	N. E. Smith	566,544	Aug. 25	2898	706	76	1215
Tacker	W. Goddu	569,152	Oct. 6	754	175	77	143
Tacker. Hand	L. D. Junkins	553,343	Jan. 21	1557	372	74	318
Tacking-machine	J. E. Weatherwax	554,470	Feb. 11	1199	279	74	743
Tacking-machine	E. Woodward	555,595	Mar. 3	190	44	74	1165
Tacking-machine. Hand	W. Shaw	569,590	Oct. 13	1521	358	77	302
Tackle-block	J. Fraser	564,012	July 14	1359	317	76	268
Tackle-block	G. Lane	567,032	Sept. 1	527	124	76	1382
Tag	S. H. Brown	573,321	Dec. 15	2190	523	77	1730
Tag and badge. Combined tobacco	L. H. Neudecker	554,893	Feb. 18	1932	455	74	899
Tag-fastener	J. R. Johnson	564,487	July 21	2183	512	76	433
Tag-fastener	W. A. Seibel	568,803	Oct. 6	155	37	77	31
Tag for rolled goods. Marking	W. D. Smith	566,703	Aug. 25	3135	767	76	1259
Tag making and stringing machine	J. Fletcher	567,809	Sept. 15	1870	{ 447 448 449 }	76	1658
Tag. Marking	S. Dancyger	557,055	Mar. 24	2801	666	74	1704
Tag. Marking	C. Winkler	556,838	Mar. 24	2425	570	74	1633
Tag or card-receptacle. Bag	E. P. Cushman	554,171	Feb. 4	684	154	74	630
Tag-stringing machine	H. L. Chapin	555,637	Mar. 3	266	62	74	1178
Tag tying and bunching machine	J. P. Swift	566,353	Aug. 25	2523	{ 616 617 618 619 }	76	1145
Tail-fastener	W. T. Merriman	563,979	July 14	1304	304	76	257
Tailor's table	M. A. Adler	569,947	Oct. 20	2164	513	77	435
Talking-machine apparatus	E. H. Amet	573,071	Dec. 15	1728	414	77	1646
Tally-sheet and manifolding detachable sales-sheet systems. Holder for	A. B. Hilton	572,990	Dec. 15	1589	381	77	1619
Tally-tablet	C. I. Bacon	561,253	June 2	298	75	75	1425
Tank:							
See Flush-tank. Sap-gathering tank.							
Flushing-tank. Storage-tank.							
Measuring-tank. Water-tank.							
Oil-tank. Water-closet flush-tank.							
Oil-supply tank. Watering-tank.							
Rendering-tank.							
Tank	F. H. Pfluger	565,503	Aug. 11	1041	249	76	829
Tank	F. G. Tallyday	567,666	Sept. 15	1630	393	76	1612
Tank	F. G. Tallyday	567,667	Sept. 15	1631	393	76	1612
Tank-heater	A. W. Johnsen, P. T. and T. Herreid	571,668	Nov. 17	2182	525	77	1086
Tank-heater	S. D. Strong	555,667	Mar. 3	321	74	74	1187
Tannin and making it. Albumen	R. Gottlieb	563,479	July 7	416	.....	76	80
Tannin extract. Decolorizing	J. S. Adriance	571,635	Nov. 17	2132	.....	77	1076
Tanning	H. Schweitzer	573,362	Dec. 15	2262	.....	77	1744
Tanning and compound therefor	J. H. Thompson	555,028	Feb. 18	2171	.....	74	942
Tanning apparatus	E. Du Bois	573,077	Dec. 15	1740	417	77	1649
Tanning hides	J. Durio	562,781	June 23	2996	.....	75	1995
Tanning hides	C. Knees	564,086	July 14	1501	.....	76	295
Tanning hides	J. C. Rogers	564,106	July 14	1539	.....	76	302
Tanning hides or skins	R. Wagner and J. J. Maier	574,014	Dec. 29	3477	.....	77	2002
Tanning liquor	F. E. Burlingame	563,560	July 7	555	.....	76	104
Tanning machinery	A. A. Myers	571,678	Nov. 17	2196	529	77	1088
Tap	C. Elterich	559,372	May 5	38	9	75	688
Tap and bushing	A. Fischer	573,867	Dec. 29	3199	762	77	1951
Tap and die. Combination	S. E. Franke	574,216	Dec. 29	3888	925	77	2075
Tap and die holder	J. M. Carpenter	560,983	May 12	1354	304	75	951
Tap. Beer	E. C. Post	569,800	Oct. 20	1913	454	77	388
Tap. Beer	E. C. Post	569,801	Oct. 20	1914	454	77	389
Tap-coupling	O. Eisenhuth	568,432	Sept. 29	2973	714	76	1892
Tap or other valve	C. C. Lindoll	555,174	Feb. 25	2441	579	74	1010
Tap. Sectional expansion	B. W. Prentice	572,445	Dec. 1	633	150	77	1398
Taps or drills. Safety-socket for	G. Bettcher	572,089	Dec. 1	8	3	77	1280
Tapping and connecting device. Pipe	S. G. Howe	563,488	July 7	430	100	76	83
Tapping attachment	F. A. Errington	558,054	Apr. 14	986	241	75	202
Tapping attachment	F. A. Errington	558,055	Apr. 14	991	242	75	203
Tapping attachment. Automatic	F. A. Errington	558,053	Apr. 14	981	240	75	202
Tapping-head	J. Riddell	567,793	Sept. 15	1834	440	76	1651

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Tapping machine. Main.....	J. Hearne and E. E. Cisco	554,513	Feb. 11	1266	296	74	755
Tapping machine. Nut.....	R. D. Perry	554,951	Feb. 18	2024	479	74	916
Tapping machine. Pipe.....	F. Sharp	561,620	June 9	1000	240	75	1584
Tapping pipes or mains. Apparatus for.....	W. Downey	572,786	Dec. 8	1238	299	77	1532
Tape-line hook.....	S. H. Rodick	558,113	Apr. 14	1081	265	75	222
Target apparatus.....	J. L. McCullough.....	561,124	June 2	79	21, 22	75	1382
Target. Flying.....	B. F. Saylor	571,958	Nov. 24	2722	643	77	1208
Target-meter.....	R. F. Langer	565,358	Aug. 4	742	177	76	754
Target. Portable safety.....	E. J. B. Scratton	570,820	Nov. 3	726	166	77	773
Target-throwing trap.....	A. L. Davis.....	554,990	Feb. 18	2097	499	74	929
Tawing hides.....	G. W. Adler	573,631	Dec. 22	2787	77	1862	
Tea-infuser.....	J. H. Sutthoff	561,921	June 9	1527	370	75	1683
Teakettle.....	A. W. Cram	562,761	June 23	2963	717	75	1989
Teakettle.....	C. F. Ebling.....	554,250	Feb. 11	815	186	74	670
Teakettle and attachment.....	R. Keys	558,079	Apr. 14	1030	251	75	211
Teakettle-cover.....	E. S. Ingalsbe	574,329	Dec. 29	4079	969	77	2112
Tea or coffee pot, saucepan, &c.....	M. Bain	552,739	Jan. 7	431	109	74	82
Teaching swimming. Device for.....	J. Emerson	563,578	July 7	582	135	76	109
Teaching words and identifying objects. Apparatus for.....	J. G. and T. E. Thompson.....	569,846	Oct. 20	1987	474	77	402
Teazeling machine.....	E. Gessner.....	558,793	Apr. 21	2957	545	75	457
Teeth. Appliance for bleaching.....	M. W. Hollingsworth.....	574,033	Dec. 29	3508	833	77	2007
Teeth. Artificial.....	J. S. Campbell.....	571,644	Nov. 17	2144	515	77	1079
Teeth. Artificial.....	A. L. and B. F. Gilmer.....	553,523	Jan. 28	1867	442	74	394
Teeth. Bridging.....	F. Comer	571,556	Nov. 17	2002	475	77	1052
Teeth. Support and carrier for artificial.....	H. D. Justi	571,166	Nov. 10	1341	313	77	916
Telautograph.....	G. S. Tiffany.....	567,325	Sept. 8	1061	253	76	1490
Telautograph.....	G. S. Tiffany.....	570,072	Oct. 27	2376	565	77	488
Telautograph.....	G. S. Tiffany.....	570,112	Oct. 27	2452	563	77	503
Telegraph.....	L. W. Hildburgh.....	571,948	Nov. 24	2701	639	77	1204
Telegraph-alphabet.....	S. V. Essick	563,148	June 30	3687	883	75	2147
Telegraph. Automatic.....	S. P. Freir	561,547	June 2	868	209	75	1534
Telegraph. Block-signal.....	C. M. Grace	556,670	Mar. 17	2129	497	74	1560
Telegraph call-box. District.....	W. H. Garven	560,093	May 12	1381	311	75	957
Telegraph instrument.....	O. M. Runkle.....	568,103	Sept. 22	2419	583	76	1773
Telegraph-key.....	W. Deats	554,112	Feb. 4	578	131	74	609
Telegraph-key.....	W. E. Simons.....	553,617	Apr. 21	1941	471	75	399
Telegraph-operator's arm-rest.....	E. L. Brownson and H. W. Goodro.....	561,562	June 9	900	216	75	1565
Telegraph or similar wires. Wire-clamp for.....	G. Middleton.....	558,509	Apr. 21	1768	429	75	368
Telegraph-pole.....	C. A. Peterson	574,364	Dec. 29	4135	982	77	2122
Telegraph. Printing.....	L. Kamm.....	572,760	Dec. 8	1190	286	77	1524
Telegraph. Printing.....	B. F. Merritt and J. M. Joy	558,506	Apr. 21	1760	427	75	366
Telegraph. Printing.....	J. E. Woodbridge.....	552,738	Jan. 7	427	108	74	82
Telegraph-receiver.....	C. L. Buckingham and E. Germann.....	568,513	Sept. 29	3119	752	76	1919
Telegraph-receiver.....	L. E. Oehring.....	554,395	Feb. 11	1054	246	74	716
Telegraph receiver. Submarine.....	A. Piedfort	573,266	Dec. 15	2119	509	77	1718
Telegraph-recorder. Photographic.....	C. Ader	565,657	Aug. 11	1305	315	76	878
Telegraph-relay.....	E. Butler	561,653	June 9	1053	254	75	1594
Telegraph-repeater.....	B. F. Merritt.....	553,535	Jan. 28	1884	445	74	397
Telegraph-repeater. Automatic.....	A. E. Collyer.....	558,042	Apr. 14	963	236	75	199
Telegraph-sounder.....	D. M. Dunn	568,527	Sept. 29	3165	761	76	1926
Telegraph-sounder. Mechanical.....	W. W. Alexander and M. C. Gillham.....	572,945	Dec. 15	1509	361	77	1603
Telegraph switch mechanism.....	F. P. Scott.....	571,695	Nov. 17	2226	535	77	1094
Telegraph system.....	B. F. Merritt and J. M. Joy	572,609	Dec. 8	922	223	77	1473
Telegraphs. Individual-call system for autographic.....	H. Etheridge	555,938	Mar. 10	780	187	74	1295
Telegraphic and telephonic transmission. Composite.....	E. E. Backus.....	553,605	Jan. 28	2010	476	74	420
Telegraphic apparatus. Type-printing.....	F. H. W. Higgins.....	570,852	Nov. 3	788	161	77	785
Telegraphic key. Automatic-closing.....	J. A. Coleman	553,106	Jan. 14	1137	276	74	228
Telegraphic printing apparatus.....	H. C. Spaulding	559,821	May 12	846	198	75	856
Telegraphic relay.....	C. G. Burke.....	559,479	May 5	227	50, 51	75	726
Telegraphic repeater.....	L. Horton, Jr.....	555,165	Feb. 25	2425	575	74	1006
Telegraphy.....	P. B. Delany	553,957	Feb. 4	824	63	74	557
Telegraphy.....	S. V. Essick	563,149	June 30	3689	883	75	2147
Telegraphy.....	R. Greville-Williams	568,675	Sept. 29	3437	823	76	1979
Telegraphy.....	J. M. Joy	566,985	Sept. 1	447	104	76	1366
Telegraphy.....	I. Kitsee	572,639	Dec. 8	970	233	77	1483
Telegraphy.....	E. F. Law	562,004	June 16	1671	408	75	1731
Telegraphy. Facsimile.....	H. W. C. Cox and R. J. Crowley.....	566,298	Aug. 25	2418	594	76	1126
Telegraphy. Facsimile.....	A. W. Storm	553,626	Mar. 3	241	57	74	1174
Telegraphy. Printing.....	J. J. Reifgraber	564,101	July 14	1526	358	76	300
Telemeter.....	F. J. B. Cordeiro.....	565,841	Aug. 11	1625	398	76	938
Telemeter.....	A. C. Dunn	559,669	May 5	571	135	75	791
Telephone.....	T. Berdell.....	559,988	May 12	1175	261	75	920
Telephone.....	T. Berdell.....	559,989	May 12	1176	261	75	920
Telephone.....	T. Berdell.....	559,990	May 12	1177	262	75	920
Telephone.....	N. L. Burchell.....	552,816	Jan. 7	600	146	74	113
Telephone.....	S. A. Dinsmore.....	553,452	Jan. 21	1726	411	74	351
Telephone.....	S. A. Dinsmore.....	553,843	Feb. 4	55	11	74	515
Telephone.....	C. F. Dunderdale.....	556,496	Mar. 17	1859	433	74	1510
Telephone.....	S. D. Field	558,584	Apr. 21	1887	457	75	329

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Telephone	M. Garl	555,239	Feb. 25	2553	600	74	1030
Telephone	A. Gartner	569,018	Oct. 6	523	120	77	99
Telephone	E. A. Hinckley	564,196	July 21	1702	398	76	346
Telephone	P. Minnis	561,423	June 2	640	159	75	1493
Telephone	R. F. Rankin	567,688	Sept. 15	1665	401	76	1619
Telephone	C. A. E. Ruebel	566,022	Aug. 18	1976	479	76	1026
Telephone	W. H. and G. E. Russell	554,895	Feb. 18	1935	455	74	809
Telephone	C. E. Scribner	571,907	Nov. 24	2636	625	77	1180
Telephone and calling system	C. B. Smith	559,086	Apr. 28	2749	669	75	508
Telephone and calling system	C. B. Smith	559,087	Apr. 28	2755	669	75	569
Telephone and calling system	J. G. Smith	559,088	Apr. 28	2760	669	75	571
Telephone and district alarm system. Combined.	F. Drake	565,202	Aug. 4	469	112	76	703
Telephone antiseptic diaphragm	E. Weschcke	553,633	Jan. 28	2052	485	74	427
Telephone apparatus	C. J. Schwarze	554,036	Feb. 4	428	94	74	583
Telephone apparatus	A. Stromberg and A. Carlson	558,859	Apr. 21	2348	572	75	475
Telephone apparatus and circuit	C. E. Scribner and F. R. McBerty	559,410	May 5	110	24	75	702
Telephone-apparatus connection	P. Rabbidge	558,106	Apr. 14	1071	263	75	220
Telephone apparatus. Desk	G. W. Coy	552,867	Jan. 7	687	167	74	129
Telephone apparatus. Party-line	W. W. Dean	561,498	June 2	774	190	75	1516
Telephone arm-rest and table	F. Hofmeister	554,488	Feb. 11	1229	287	74	748
Telephone attachment	W. O. Christopher	573,441	Dec. 22	2436	577	77	1793
Telephone attachment	W. W. Dale	562,807	June 30	3052	738	75	2022
Telephone attachment	J. H. Miller	561,416	June 2	625	156	75	1489
Telephone-bell	R. D. Harrigan	558,385	Apr. 14	1540	376	75	308
Telephone-call	J. G. Smith	553,364	Jan. 21	1591	380	74	325
Telephone-call. Automatic	G. Q. and J. Dean, Jr.	561,377	June 2	556	140	75	1477
Telephone-call-box	P. Minnis	561,421	June 2	644	159	75	1492
Telephone-call counter	S. D. Field	558,168	Apr. 14	1167	285	75	238
Telephone-call register	H. Hempel	555,645	Mar. 3	283	66	74	1181
Telephone-call-signal for central stations	P. Minnis	561,422	June 2	647	159	75	1492
Telephone-circuit	C. E. Scribner	552,730	Jan. 7	413	106	74	80
Telephone-circuit	C. E. Scribner	563,322	July 7	158	36	76	33
Telephone-circuit	C. E. Scribner	572,222	Dec. 1	226	54	77	1321
Telephone-circuit	C. E. Scribner	574,005	Dec. 29	3461	823	77	1999
Telephone-circuit	E. Slade and J. S. Stone	553,179	Jan. 14	1261	305	74	251
Telephone-circuit	J. S. Stone	560,761	May 26	2613	601	75	1247
Telephone circuit and apparatus	J. S. Stone	560,762	May 26	2615	601	75	1248
Telephone-circuit for police-boxes	C. E. Scribner	559,409	May 5	108	24	75	702
Telephone-circuit line-signal	T. C. Wales, Jr., and C. H. Arnold	573,117	Dec. 15	1809	436	77	1662
Telephone-circuit. Multiple-station	J. A. Barrett	569,401	Oct. 13	1179	280	77	241
Telephone-circuits. System of current supply for	J. S. Stone	562,435	June 23	2401	583	75	1882
Telephone communication. Short-distance	W. L. Bradshaw	555,073	Feb. 25	2262	540	74	973
Telephone-exchange	M. F. Hill	572,801	Dec. 8	1261	305	77	1537
Telephone-exchange apparatus	J. J. Carv	564,173	July 14	1 63	389	76	325
Telephone-exchange apparatus	F. R. McBerty	574,255	Dec. 29	3958	941	77	2089
Telephone-exchange. Automatic	A. E. Keith	573,884	Dec. 29	3235	770	77	1959
Telephone-exchange switchboard	J. P. Davis	559,366	May 5	28	7	75	686
Telephone-exchange switchboard	C. E. Scribner and E. P. Warner	563,327	July 7	168	37, 38	76	34
Telephone-exchange switchboard system	C. E. Scribner	552,726	Jan. 7	403	104	74	78
Telephone-exchange switching apparatus	J. P. Davis	559,367	May 5	29	8	75	686
Telephone-exchange system	W. W. Dean	560,846	May 26	2770	636	75	1279
Telephone-exchange system	W. W. Dean	564,328	July 21	1918	453	76	384
Telephone-exchange system	W. W. Dean	573,575	Dec. 22	2662	632	77	1836
Telephone-exchange system	A. F. W. Meyer	565,627	Aug. 11	1246	{ 300 301 }	76	806
Telephone-exchange system	K. B. Miller	561,335	June 2	481	122	75	1463
Telephone-exchange system	P. Minnis	561,418	June 2	632	157	75	1490
Telephone-exchange system	P. E. Raverot and G. A. Hess	569,470	Oct. 13	1284	302	77	259
Telephone-exchange system	C. E. Scribner	571,910	Nov. 24	2642	626	77	1190
Telephone-exchange system	C. E. Scribner	572,221	Dec. 1	223	54	77	1320
Telephone-exchange system	C. E. Scribner	574,221	Dec. 29	3898	923	77	2077
Telephone-exchange system and switching apparatus	A. R. Bennett, G. J. Somerville, and R. McLean	566,648	Aug. 25	3034	742	76	1243
Telephone-exchange system. Automatic	R. Callender	573,859	Dec. 29	3178	{ 757 758 759 217 218 }	77	1949
Telephone-exchange system. Automatic	M. Freudenberg	556,007	Mar. 10	904	{ 217 218 }	74	1320
Telephone-exchange trunk-line	T. C. Wales, Jr.	552,735	Jan. 7	423	107	74	81
Telephone-exchanges. Apparatus for multiple switchboards for	C. E. Scribner	571,906	Nov. 24	2632	624	77	1189
Telephone-exchanges. Automatic signaling device for	C. E. Scribner and F. R. McBerty	574,280	Dec. 29	4005	951	77	2098
Telephone-exchanges. Multiple switchboard for	M. G. Kellogg. (Reissue)	11,529	Apr. 7	916	229	75	171
Telephone-exchanges. Multiple-switchboard system for	O. A. Bell	563,250	July 7	16	3	76	5
Telephone-exchanges. Multiple-switchboard system for	C. E. Scribner	552,723	Jan. 7	394	103	74	76
Telephone-exchanges. Multiple-switchboard system for	C. E. Scribner	552,724	Jan. 7	399	103	74	77
Telephone-exchanges. Multiple-switchboard system for	C. E. Scribner	563,320	July 7	152	35	76	31
Telephone-exchanges. Toll-board apparatus for	V. Wietlisbach	566,829	Sept. 1	156	37	76	1312
Telephone instrument	H. P. Pratt and H. A. Allen	555,051	Feb. 18	2229	{ 532 533 }	74	951
Telephone-line apparatus	C. E. Scribner	557,153	Mar. 31	2970	710	74	1760
Telephone-line apparatus	C. E. Scribner	557,154	Mar. 31	2972	710	74	1760
Telephone-line apparatus. Party	A. S. Hibbard	555,725	Mar. 3	407	94	74	1203
Telephone-line signaling apparatus	F. R. McBerty	562,906	June 30	3243	783	75	2059
Telephone-line toll-counter	G. P. Séligmann-Lui	561,619	June 9	995	239	75	1584
Telephone-lines. Busy-signal for	C. E. Scribner	560,757	May 26	2599	598	75	1245
Telephone-lines. Lock-out system for	C. E. Scribner	557,298	Apr 7	651	157	75	123
Telephone-lines. Signaling apparatus for	C. E. Scribner and F. R. McBerty	574,225	Dec. 29	3908	929	77	2079
Telephone. Magneto	E. M. and W. S. Harrison	571,190	Nov. 10	1377	322	77	923

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Telephone mechanism.	J. L. Given.	568,346	Sept. 29	2833	682	76	1866
Telephone pay-stations. Automatic toll-box for.	H. C. Root.	553,361	Jan. 21	1588	379	74	325
Telephone-receiver.	S. D. Field.	560,403	May 19	1947	445	75	1109
Telephone-receivers. Automatic switch-arm for.	H. Marcuse.	568,577	Sept. 29	3247	781 782	76	1942
Telephone-receivers. Earpiece for.	D. C. Farrington.	572,108	Dec. 1	20	5	77	1282
Telephone-register.	E. L. Morey.	561,601	June 9	967	231	75	1578
Telephone registering apparatus.	F. Quatram.	553,964	Feb. 4	295	66	74	559
Telephone registering device.	J. Curran.	565,965	Aug. 18	1879	457	76	1006
Telephone-service register.	S. D. Field.	558,167	Apr. 14	1165	285	75	238
Telephone signal and signaling-circuit.	A. de Khotinsky.	560,617	May 19	2307	528	75	1174
Telephone signal-bells. Adjusting attachment for.	C. F. Dunderdale.	553,977	Feb. 4	317	70	74	563
Telephone signaling-circuit.	J. S. Stone.	563,692	July 7	767	181	76	144
Telephone speaking-tube system.	J. S. Stone and G. K. Thompson.	556,034	Mar. 10	966	232	74	1328
Telephone-substation apparatus.	A. de Khotinsky.	565,080	Aug. 4	205	51	76	655
Telephone switch.	G. W. Coy.	552,516	Jan. 7	25	8	74	8
Telephone switch.	G. W. Coy.	552,705	Jan. 7	357	94	74	69
Telephone switch.	G. W. Coy.	552,866	Jan. 7	686	167	74	129
Telephone switch.	E. M. Harrison.	571,162	Nov. 10	1336	312	77	915
Telephone switch.	G. S. Maxwell.	562,013	June 16	1692	411	75	1734
Telephone switch.	W. A. Moore.	556,763	Mar. 24	2305	542	74	1610
Telephone switch.	E. E. Ries.	567,794	Sept. 15	1836	440	76	1651
Telephone switch.	D. Rousseau.	567,170	Sept. 8	774	182	76	1440
Telephone switch.	C. N. Sandbeck.	570,773	Nov. 3	650	148	77	757
Telephone switch and support.	E. C. Paramore.	557,284	Mar. 31	3225	774	74	1802
Telephone-switchboard.	I. Anderson.	556,609	Mar. 17	2041	478 479	74	1543
Telephone-switchboard.	L. W. Davis.	568,840	Oct. 6	210	50	77	42
Telephone-switchboard.	H. M. Fisk.	559,348	Apr. 28	3279	791	75	666
Telephone-switchboard.	G. S. Maxwell.	562,009	June 16	1687	410	75	1733
Telephone-switchboard.	G. S. Maxwell.	562,010	June 16	1689	411	75	1734
Telephone-switchboard.	G. S. Maxwell.	562,012	June 16	1691	411	75	1734
Telephone-switchboard and circuit.	A. Stromberg and A. Carlson.	565,046	Aug. 4	144	34	76	644
Telephone-switchboard annunciator.	T. C. Wales, Jr., and T. Spencer.	552,734	Jan. 7	420	107	74	81
Telephone-switchboard apparatus.	C. E. Scribner.	552,727	Jan. 7	406	104	74	78
Telephone-switchboard apparatus.	F. R. McBerty.	567,404	Sept. 8	1197	286	76	1515
Telephone-switchboard apparatus.	C. E. Scribner.	554,399	Feb. 11	1063	248	74	717
Telephone-switchboard apparatus.	C. E. Scribner.	563,073	June 30	3564	856	75	2125
Telephone-switchboard apparatus.	C. E. Scribner and F. R. McBerty.	559,411	May 5	113	24	75	703
Telephone-switchboard apparatus.	C. E. Scribner and F. R. McBerty.	572,223	Dec. 1	227	54	77	1321
Telephone-switchboard plug.	C. E. Scribner and F. R. McBerty.	574,281	Dec. 29	4007	951	77	2098
Telephone-switchboard spring-jack.	C. E. Scribner.	552,725	Jan. 7	401	104	74	78
Telephone-switchboard spring-jack.	H. B. Thayer.	563,333	July 7	177	40	76	36
Telephone-switchboard system.	C. E. Scribner.	563,245	June 30	3849	923	75	2177
Telephone-switchboards. Cord switch for.	C. E. Scribner.	572,219	Dec. 1	218	53	77	1319
Telephone-switchboards. Keyboard apparatus for.	C. E. Scribner.	564,458	July 21	2141	500	76	425
Telephone-switchboards. Spring-jack for.	C. E. Scribner.	574,224	Dec. 29	3906	929	77	2079
Telephone switch-box.	W. A. Houts and L. G. Nilson.	574,245	Dec. 29	3945	937 938	77	2086
Telephone switch-plug.	P. Minnis.	561,424	June 2	651	159	75	1493
Telephone system.	F. R. Colvin.	552,823	Jan. 7	611	148	74	115
Telephone system.	G. F. Durant, W. W. Dean, and W. A. Childs.	565,968	Aug. 18	1885	458 459 460	76	1007
Telephone system.	C. C. Gould.	564,745	July 28	2636	627 628	76	533
Telephone system.	A. Graham.	563,920	July 14	1198	281 282	76	239
Telephone system.	W. A. Houts.	554,125	Feb. 4	602	136 137	74	614
Telephone system.	G. S. Maxwell.	562,011	June 16	1690	411	75	1734
Telephone system.	P. Minnis.	561,417	June 2	626	156 157	75	1489
Telephone system.	W. R. Patterson.	563,877	July 14	1116	263	76	224
Telephone system.	J. Piel.	563,614	July 7	640	149	76	120
Telephone system.	J. G. Smith.	563,084	June 30	3583	859	75	2128
Telephone system.	A. F. Swan.	572,840	Dec. 8	1322	317	77	1550
Telephone system.	W. F. Taylor.	559,874	May 12	964	214 215	75	877
Telephone system. Automatic.	M. Brooks.	570,840	Nov. 3	764	175	77	781
Telephone system. Common battery.	W. W. Dean.	573,576	Dec. 22	2664	632	77	1836
Telephone system. Railway.	W. H. Nixon.	555,232	Feb. 25	2524	595	74	1024
Telephone-system switchboard.	P. Minnis.	561,419	June 2	634	157 158	75	1490
Telephone system. Village or house.	E. G. Hovey.	566,762	Sept. 1	51	13	76	1290
Telephone toll-box.	C. E. Scribner.	571,046	Dec. 29	3534	844	77	2013
Telephone-transmitter.	H. C. Alexander.	569,908	Oct. 20	2085	496	77	421
Telephone-transmitter.	L. D. Appleman.	559,476	May 5	221	49	75	725
Telephone-transmitter.	L. D. Appleman.	572,188	Dec. 1	161	39	77	1309
Telephone-transmitter.	N. L. Barchell.	567,077	Sept. 1	608	142	76	1397
Telephone-transmitter.	W. R. Cole.	558,354	Apr. 14	1477	363	75	397
Telephone-transmitter.	A. Graham.	555,154	Feb. 25	2403	571	74	1003
Telephone-transmitter.	E. P. Green.	567,132	Sept. 8	718	168	76	1430
Telephone-transmitter.	R. L. Hunter and H. B. Higgins.	572,756	Dec. 8	1185	285	77	1523
Telephone-transmitter.	I. J. Kusel.	552,689	Jan. 7	333	88	74	65
Telephone-transmitter.	H. A. Martin.	563,935	July 14	1228	287	76	243
Telephone-transmitter.	W. A. Moore.	563,395	July 7	267	60	76	54
Telephone-transmitter.	L. W. Pullen.	573,356	Dec. 15	2254	538	77	1742
Telephone-transmitter.	F. A. Ray.	559,106	Apr. 28	2797	677	75	579
Telephone-transmitter.	F. A. Ray.	572,182	Dec. 1	153	37	77	1307
Telephone-transmitter.	F. A. Ray.	573,294	Dec. 15	2138	513	77	1721
Telephone-transmitter.	A. W. Rose.	558,313	Apr. 14	1417	348	75	286
Telephone-transmitter.	D. N. Rowan.	571,399	Nov. 17	1732	410	77	1002
Telephone-transmitter.	A. Stromberg and A. Carlson.	567,324	Sept. 8	1059	252	76	1490

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Telephone-transmitter	W. L. Wilhelm	557,741	Apr. 7	395	93	75	74
Telephone-transmitter. Adjustable	A. Gartner	570,204	Oct. 27	2614	621	77	534
Telephone-transmitter. Electric	N. Bassett	559,837	May 12	888	198	75	864
Telephone trunk-lines. Signaling-circuit for	C. E. Scribner	574,279	Dec. 29	4002	950	77	2097
Telephone trunk-circuit	W. H. Hennessey	558,686	Apr. 21	2067	500	75	422
Telephone voice-conveyer	C. M. Fleury	564,371	July 21	1992	468	76	397
Telephones. Coin-controlled mechanism for	R. D. Gallagher, Jr.	571,590	Nov. 17	2052	{ 490 491 492	77	1061
Telephones. Selecting and operating	H. L. Webb	555,984	Mar. 10	867	{ 205 206	74	1313
Telephones. System of current distribution for sub- station	C. E. Scribner	563,325	July 7	165	36	76	34
Telephones. System of current supply for	C. E. Scribner	559,616	May 5	456	106	75	770
Telephonic apparatus	C. J. Schwarze	552,972	Jan. 14	902	219	74	182
Telephonic apparatus	C. J. Schwarze	566,416	Aug. 25	2654	648	76	1171
Telephonic apparatus	C. J. Schwarze	572,775	Dec. 8	1216	{ 294 295	77	1528
Telephonic conversations. Apparatus for register- ing the number of	A. Münch	566,334	Aug. 25	2489	610	76	1139
Telephonic-exchange system	S. Berditschewsky, called Apostoloff	562,064	June 16	1779	{ 430 431 432 433	75	1751
Telephonic switchboards. Line-jack for	P. Minnis	561,420	June 2	642	158	75	1491
Telephoning	D. H. Fitch	559,274	Apr. 28	3145	760	75	642
Telephoning from cars	M. Garl	565,385	Aug. 4	787	188	76	763
Telephony	F. R. Colvin	552,865	Jan. 7	684	166	74	129
Telephony	F. R. Colvin	554,656	Feb. 18	1524	360	74	880
Telephony	W. C. and J. M. Lockwood	557,588	Apr. 7	108	28	75	22
Telephony	C. A. Randall	554,141	Feb. 4	628	142	74	620
Telephony	J. T. Williams	569,807	Oct. 20	1923	457	77	390
Telephony. Multiple	F. A. Pickernell and F. S. Perrin	560,861	May 26	2800	643	75	1285
Telescope in combination with compasses	R. Schmidt	567,867	Sept. 15	1969	{ 472 473	76	1678
Tellurian	R. Mowery	571,785	Nov. 24	2406	574	77	1148
Temperature-controlling apparatus	W. P. Powers	554,398	Feb. 11	1059	{ 247 248	74	717
Temperature-regulating apparatus	W. P. and F. W. Powers	555,660	Mar. 3	307	72	74	1185
Temperature regulating or controlling device	W. S. Johnson	568,950	Oct. 6	399	90	77	76
Temperature-regulator	H. Gillette	558,453	Apr. 14	1665	401	75	332
Temperature-regulator	J. Jernberg	561,401	June 2	601	150	75	1484
Tenon-joint fastening	L. F. Arnold	559,924	May 12	1061	236	75	895
Tenpins	F. C. Rockwell	573,797	Dec. 22	3059	724	77	1912
Tent-heater	F. C. Wilson	568,393	Sept. 29	2904	699	76	1880
Tent. Shelter	E. Rice	573,918	Dec. 29	3287	{ 786 787	77	1969
Tent. Umbrella	R. Irvine, Jr.	574,091	Dec. 29	3616	865	77	2028
Tentering-machine	E. Ainsworth	569,734	Oct. 20	1795	426	77	368
Tentering-machine	R. M. Hunter	568,349	Sept. 29	2840	683	76	1868
Tentering machine. Textile	A. McLean	569,763	Oct. 20	1852	{ 438 439	77	377
Test-tube holder	W. H. Stoddard	558,433	Apr. 14	1635	394	75	327
Tester. Centrifugal	H. B. Weiper	566,257	Aug. 18	2351	576	76	1097
Testing-machine	W. Sellers, J. S. Bancroft, and C. G. Barth.	552,873	Jan. 7	703	{ 171 172 173	74	132
Testing-machine	M. H. Tomkins	552,597	Jan. 7	160	44, 45	74	32
Testing-machine. Transverse	B. E. Sperry	568,417	Sept. 29	2950	708	76	1888
Testing properties of materials under tensile stress. Machine for	T. Olsen	554,297	Feb. 11	896	{ 206 207	74	686
Tetranitrocellulose. Manufacture of solutions of	E. Bronnert	573,132	Dec. 15	1841	90	77	1668
Textile fabrics. Apparatus for estimating	M. H. Tomkins	552,596	Jan. 7	157	44	74	31
Textile-stretching device	W. C. Mackinney	572,095	Dec. 15	1774	427	77	1655
Thawing frozen food	E. M. Nelson	558,298	Apr. 14	1387	339	75	2-0
Theater apparatus for producing eclipse effects. Scenic	A. J. Oehring and A. L. Tucker	559,400	May 5	94	20	75	699
Theater apparatus for producing sun effect. Scenic	A. J. Oehring and A. L. Tucker	555,113	Feb. 25	2339	{ 555 556	74	990
Theater. Mechanical	T. B. Thorndyke	564,853	July 28	2820	673	76	566
Theaters. Circuit-controlling apparatus for scenic	A. J. Oehring and A. L. Tucker	555,114	Feb. 25	2341	{ 556 557	74	990
Theaters. Proscenium-curtain for	A. J. Oehring and A. L. Tucker	555,115	Feb. 25	2345	{ 557 558	74	991
Theatrical structure	B. F. Dunn and J. C. Bronaugh	573,141	Dec. 15	1859	{ 447 448	77	1671
Theodolites. Traversing and leveling head for	W. G. Entwistle	561,876	June 9	1455	351	75	1669
Therapeutical and massage purposes. Electric roller for	J. W. Gibbs	572,341	Dec. 1	446	105	77	1364
Thermo-electric generator	H. B. Cox	561,657	June 9	1058	256	75	1595
Thermometer	W. H. Bristol	553,202	Jan. 14	1303	315	74	258
Thermometer and barometer	S. Richardson	555,898	Mar. 3	565	136	74	1233
Thermometer attachment for railway-cars	W. E. Eastman	553,231	Jan. 21	1351	328	74	282
Thermometer. Electric	M. A. Agelasto	571,426	Nov. 17	1765	421	77	1009
Thermometer. Oven	L. S. Barndollar	571,211	Nov. 10	1409	330	77	929
Thermometer. Oven	A. P. Harland	555,697	Mar. 3	362	84	74	1194
Thermometer. Oven	G. E. Wilbur	555,275	Feb. 25	2620	614	74	1042
Thermometer-tubing. Manufacture of	F. S. Tomey	568,591	Sept. 29	3284	788	76	1948
Thermopiles. Apparatus for heating	E. N. Dickerson	563,262	July 7	52	13	76	12
Thermostat	E. S. Brazelton and T. J. Zoeller	562,353	June 16	2271	551	75	1841
Thermostat	C. Burgher	573,134	Dec. 15	1846	445	77	1669
Thermostat	W. G. Day	560,023	May 12	1240	278	75	930
Thermostat	W. S. Johnson	557,272	Mar. 31	3201	768	74	1797

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Thermostat	H. F. Maxim	564,567	July 21	2330	{ 546 547	} 76	458
Thermostat	C. B. Rogers	562,917	June 30	3258	786	75	2063
Thermostat	L. G. Woolley	563,831	July 14	1014	241	76	205
Thermostat-actuated alarm	F. B. Bigelow	555,069	Feb. 25	2258	539	74	972
Thermostat and circuit therefor	J. W. Frost	563,475	July 7	407	95	76	79
Thermostat. Double-acting	H. Cortland	563,138	June 30	3671	879	75	2144
Thermostat. Electric	J. E. Meek	568,451	Sept. 29	3004	723	76	1898
Thermostatic trap	E. E. Gold	556,093	Mar. 10	1079	258	74	1349
Thermostatic trap	E. E. Gold	556,094	Mar. 10	1083	258	74	1350
Thill. Carriage	H. B. Sturges	563,091	June 30	3595	861	75	2130
Thill-coupling	S. R. Bailey	556,611	Mar. 17	2049	479	74	1544
Thill-coupling	D. M. Bair	562,367	June 23	2294	557	75	1862
Thill-coupling	L. Ballbach	556,173	Mar. 10	1929	287	74	1377
Thill-coupling	E. A. Benner	564,911	July 28	2904	696	76	583
Thill-coupling	W. F. Bennett	553,218	Jan. 14	1325	321	74	262
Thill-coupling	F. M. Bishop	555,998	Mar. 10	893	213	74	1317
Thill-coupling	F. M. Bishop	555,999	Mar. 10	894	213	74	1318
Thill-coupling	G. Brockerman	562,883	June 30	3207	776	75	2052
Thill-coupling	C. C. Brown	561,651	June 9	1050	254	75	1593
Thill-coupling	C. Cathan	557,552	Apr. 7	33	10	75	8
Thill-coupling	F. Clyde	565,331	Aug. 4	699	167	76	745
Thill-coupling	W. L. De Grace	563,846	July 14	1054	248	76	212
Thill-coupling	F. G. English	570,846	Nov. 3	778	177	77	783
Thill-coupling	M. P. Favor	569,577	Oct. 13	1498	353	77	299
Thill-coupling	C. W. Filkins	560,135	May 12	1450	327	75	971
Thill-coupling	G. A. Fowler	564,011	July 14	1358	316	76	268
Thill-coupling	C. W. Goble	567,090	Sept. 1	633	147	76	1402
Thill-coupling	W. A. Gowen	562,392	June 23	2330	567	75	1868
Thill-coupling	P. C. Hayes	569,131	Oct. 6	710	167	77	135
Thill-coupling	W. Horning	557,817	Apr. 7	524	126	75	99
Thill-coupling	G. P. Johnson	560,722	May 26	2547	585	75	1235
Thill-coupling	C. R. Jones	573,152	Dec. 15	1875	451	77	1074
Thill-coupling	J. Kennedy	553,001	Jan. 14	944	228	74	191
Thill-coupling	H. Klahr	570,131	Oct. 27	2485	588	77	509
Thill-coupling	A. J. Kuepfert and R. Stadler	554,449	Feb. 11	1164	271	74	737
Thill-coupling	J. B. Legate	561,799	June 9	1323	317	75	1645
Thill-coupling	A. J. McArthur	557,314	Mar. 31	3275	785	74	1812
Thill-coupling	J. V. Myers	566,605	Aug. 25	2979	727	76	1231
Thill-coupling	U. Ohlsen	568,456	Sept. 29	3015	724	76	1900
Thill-coupling	L. Rawdon	557,604	Apr. 7	131	34	75	26
Thill-coupling	C. T. Redfield	560,538	May 19	2164	495	75	1149
Thill-coupling	J. Scheidler	560,007	May 12	1205	268	75	924
Thill-coupling	A. R. Schmidt and J. Lowry	557,707	Apr. 7	321	77	75	61
Thill-coupling	W. K. Scribner	562,250	June 16	2088	506	75	1807
Thill-coupling	J. Seibel	556,441	Mar. 17	1756	408	74	1491
Thill-coupling	G. W. Snyder	564,542	July 21	2269	532	76	448
Thill-coupling	J. N. Stowe, Jr.	570,718	Nov. 3	550	128	77	740
Thill-coupling	O. Taber	562,936	June 30	3300	796	75	2071
Thill-coupling	G. C. Thompson and T. C. Edwards	572,734	Dec. 8	1148	277	77	1516
Thill-coupling	C. C. Wallace	554,325	Feb. 11	943	217	74	694
Thill-coupling	T. A. Watrous	572,141	Dec. 1	85	18	77	1294
Thill-coupling and antirattler. Combined	P. Lutteke	570,100	Oct. 27	2432	578	77	500
Thill-coupling jack	J. B. Maines	569,583	Oct. 13	1509	356	77	301
Thill-couplings. Antirattler attachment for	W. H. Brooksmith	572,629	Dec. 8	953	230	77	1480
Thill-couplings. Antirattler for	G. T. Alpress	561,152	June 2	138	37	75	1393
Thill-couplings. Antirattler for	H. W. Lawrence	573,726	Dec. 22	3041	721	77	1909
Thill-couplings. Antirattler for	J. W. Willard	561,188	June 2	210	51	75	1408
Thill cross-bar	J. Imler	570,021	Oct. 27	2283	542	77	470
Thill-retainer	J. Barr	563,905	July 14	1174	276	76	235
Thill-shifter. Vehicle	G. W. Snyder	567,817	Sept. 15	1891	453	76	1662
Thill-support	G. L. Bowman	555,072	Feb. 25	2261	539	74	973
Thill-support	H. F. Goding	555,505	Mar. 3	36	9	74	1137
Thill-support	W. K. Mottram	558,093	Apr. 14	1054	258	75	216
Thill-support	T. Price	554,953	Feb. 18	2029	480	74	917
Thill-support	C. Schifferly	554,202	Feb. 4	728	165	74	938
Thill-support	P. C. Shipley	565,865	Aug. 11	1681	412	76	950
Thill-support	E. J. Spencer	566,348	Aug. 25	2517	616	76	1144
Thill-support and antirattler. Combined	J. F. Dye	553,057	Jan. 14	1038	253	74	208
Thill-support and antirattler. Combined	P. Stoskopf	558,323	Apr. 14	1433	352	75	289
Thimble	W. H. Ivers	554,879	Feb. 18	1908	449	74	894
Thimble	U. A. Knauss	562,730	June 23	2912	707	75	1978
Thistle-destroying composition	W. B. Joslyn	560,218	May 19	1612	.....	75	1051
Thistle-extermimating compound	J. Sheckler	558,991	Apr. 28	2593	.....	75	538
Thread. Apparatus for leveling silk	J. M. Weaver	570,691	Nov. 3	513	119	77	733
Thread-cutter	G. R. Unkefer	553,439	Jan. 21	1710	408	74	348
Thread-cutting attachment for spools	H. Gintz	566,859	Sept. 1	209	48, 49	76	1322
Thread-holder	J. W. Mohn	566,210	Aug. 18	2284	559	76	1083
Thread holder and cutter	G. H. Miller	565,771	Aug. 11	1512	368	76	917
Thread-package	L. O. Smith	566,424	Aug. 25	2671	653	76	1174
Thread-waxing mechanism	J. R. Scott	562,249	June 16	2087	506	75	1807
Thresher and separator. Pea	D. H. Gaither	566,571	Aug. 25	2930	{ 715 716	} 76	1221
Thresher feeding attachment. Bean	F. A. Prior	562,096	June 16	1843	448	75	1760
Thresher. Flax	J. P. Birchall	559,354	May 5	7	2	75	682
Thresher. Pea	J. H. Gardner	570,282	Oct. 27	2759	657	77	561
Thresher. Pea	J. F. Rhodes	570,209	Oct. 27	2623	622	77	536
Thresher. Pea and bean	T. J. Coleman	566,743	Sept. 1	19	5	76	1284
Thresher. Rotary	J. H. Koch	560,586	May 19	2255	517	75	1165
Threshers. Separator for grain	D. Snelling	568,807	Oct. 6	159	38	77	32
Threshing and clover hulling and dressing machine	J. Greenslade	557,266	Mar. 31	3189	{ 764 765 766	} 74	1795
Threshing and separating machine	S. Bufkin	566,494	Aug. 25	2818	687	76	1199

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Threshing-cylinder	D. S. Geiser	563,661	July 7	709	{ 167 168 }	76	133
Threshing-machine	R. H. Avery	561,552	June 9	879	{ 211 212 }	75	1562
Threshing-machine	H. S. Bonnell	553,894	Feb. 4	158	32	74	535
Threshing-machine	W. H. and J. Butterworth	574,303	Dec. 29	4035	959	77	2103
Threshing-machine	H. and W. H. Campbell	567,117	Sept. 1	677	158	76	1410
Threshing-machine	H. H. Lamont	567,648	Sept. 15	1602	385	76	1606
Threshing-machine	W. McKenzie	557,691	Apr. 7	296	71	75	56
Threshing-machine	J. B. Outram	569,298	Oct. 13	1004	{ 240 241 }	77	207
Threshing-machine	G. W. Papke	573,479	Dec. 22	2503	593	77	1806
Threshing-machine	C. and F. Quintus, J. Ritchie, P. Quintus, P. Beebe, and F. Lukermann	573,916	Dec. 29	3284	{ 785 786 }	77	1968
Threshing-machine	W. J. Randolph	555,533	Mar. 3	82	18, 19	74	1145
Threshing-machine and separator	F. Strobel	554,351	Feb. 11	988	229	74	703
Threshing-machine attachment	H. W. Harned	557,673	Apr. 7	270	65	75	51
Threshing-machine band-cutter and feeder	F., P., and C. Quintus	569,230	Oct. 13	886	{ 210 211 212 }	77	185
Threshing-machine band-cutter and spreader	M. Regnier	573,701	Dec. 22	2914	689	77	1884
Threshing-machine feeder	J. W. Livermore	570,257	Oct. 27	2714	{ 645 646 }	77	553
Threshing-machine feeder	A. E. Pratt	570,336	Oct. 27	2897	688	77	585
Threshing-machine feeder	F. W. Robinson	558,844	Apr. 21	2326	566	75	470
Threshing-machine feeding attachment	G. W. Rucker	569,588	Oct. 13	1517	357	77	302
Threshing-machine grain-delivery	M. Rumely	564,765	July 28	2675	636	76	540
Threshing-machine magnetic separator	E. H. Osborn	570,496	Nov. 3	110	27	77	658
Threshing-machine recleaner	J. P. Monnett	572,086	Nov. 24	2968	698	77	1253
Threshing-machine straw-carrier attachment	M. T. Reeves and J. N. Kailor	557,701	Apr. 7	312	75	75	59
Threshold-strip	J. W. Loveland	564,206	July 21	1718	402	76	349
Ticket-book cover	W. J. Perdue	571,390	Nov. 17	1710	407	77	1000
Ticket-case	E. S. McMaster	573,524	Dec. 22	2574	611	77	1819
Ticket. Continuous-strip mileage	W. B. Shattuc	559,870	May 12	955	213	75	876
Ticket cutter and receptacle	A. I. Blanchard	563,400	Sept. 29	2918	{ 702 703 }	76	1882
Ticket for street-railways. Transfer	F. A. Boston, Jr.	567,374	Sept. 8	1147	275	76	1506
Ticket-holder	E. W. Burt	558,155	Apr. 14	1150	281	75	235
Ticket-holder	L. W. Davis	565,333	Aug. 4	702	168	76	745
Ticket-issuing device	C. O. Tangeman	565,185	Aug. 4	443	106	76	699
Ticket. Milk	J. C. Milnes	553,251	Jan. 21	1386	338	74	289
Ticket. Price	J. T. Hopkins	564,930	July 28	2955	704	76	592
Ticket. Railway	A. I. Blanchard	568,399	Sept. 29	2914	702	76	1882
Ticket. Railway	W. J. Perdue	559,598	May 5	421	100	75	764
Ticket. Railway	W. J. Perdue	559,599	May 5	423	101	75	765
Ticket register. Transfer	C. E. Grobet	571,659	Nov. 17	2165	{ 520 521 }	77	1082
Ticket stamping and supplying apparatus. Coin-controlled	C. Berzdorf	558,471	Apr. 21	1704	412	75	355
Ticket stamping and supplying apparatus. Coin-controlled	C. Berzdorf	563,734	July 14	846	201	76	174
Tidal wheel	W. E. Booraem	568,330	Sept. 29	2802	674	76	1861
Tide-indicator	A. A. Low	569,340	Oct. 13	1080	257	77	223
Tie:							
See Bag-tie.	Package-tie.						
Bale-tie.	Railway-tie.						
Fence-tie.	Rope-tie.						
Metal tie.	Sack-tie.						
Metallic tie.							
Tie guard or plate	T. S. Weed	566,828	Sept. 1	155	36	76	1312
Tie-plate	T. A. Griffin	557,667	Apr. 7	263	63	75	50
Tie-plate	M. Sellers	573,543	Dec. 22	2610	619	77	1826
Tie-plate and spike-lock	A. S. Hardman	562,960	June 30	3362	809	75	2085
Tie-plate machine	W. H. Greenshield	567,232	Sept. 8	866	207	76	1457
Tightening and stretching device	J. Menary	553,172	Jan. 14	1241	302	74	147
Tights for bicyclists, &c	A. W. Dunning	557,563	Apr. 7	50	14	75	11
Tile	H. Bröcker	562,798	June 30	3033	732	75	2019
Tile	J. J. Merrill	557,137	Mar. 31	2940	704	74	1755
Tile	A. Shelmerdine	572,454	Dec. 1	650	153	77	1402
Tile	W. A. C. Waller	573,939	Dec. 29	3326	794	77	1976
Tile. Interlocking	F. Furness	565,734	Aug. 11	1445	352	76	904
Tile-machine	J. Vandermolen and J. Veen	559,739	May 5	645	155	75	805
Tile machine. Roofing	G. Krebs and A. Weil	573,604	Dec. 22	2715	645	77	1847
Tile. Roofing	M. Horlocker	573,328	Dec. 15	2200	526	77	1732
Tile. Roofing	P. F. Jones	565,356	Aug. 4	740	177	76	754
Tile. Roofing	G. Krebs and A. Weil	558,395	Apr. 14	1556	379	75	310
Tile. Roofing	G. A. Taylor	553,321	Jan. 21	1517	364	74	311
Tile. Wall	J. V. V. Booraem	555,672	Mar. 3	330	75	74	1189
Tilework	A. S. Nichols	558,300	Apr. 14	1390	339	75	280
Tiles. Machine for making decorative	J. Mohs	566,211	Aug. 18	2285	559	76	1084
Tiles. Machine for making roofing	K. Thomann	558,326	Apr. 14	1438	{ 353 354 }	75	289
Tiling. Metal	S. R. Wilmot	566,489	Aug. 25	2813	685	76	1199
Till and recorder. Combined cash	W. T. Blaine	564,045	July 14	1428	{ 333 334 }	76	281
Time-alarm. Electric	H. E. Lipscomb	565,761	Aug. 11	1491	{ 364 365 }	76	913
Time and signal recorder. Electric	C. E. Ongley	554,083	Feb. 4	515	{ 115 116 }	74	599
Time indicator and register	J. M. Helfenstein and W. K. Holmes	564,072	July 14	1472	345	76	289
Time-indicator and trip-recording apparatus. Combined	L. M. Va. de Gonzalez	552,957	Jan. 14	875	{ 212 213 }	74	178
Time-lock	I. G. Blake	573,855	Dec. 29	3168	755	77	1948

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Time-lock.....	C. D. Dean.....	563,456	July 7	371	85, 86	76	72
Time-lock.....	E. Stockwell.....	567,623	Sept. 15	1553	374	76	1596
Timepiece balance-escapement.....	H. S. Barber.....	569,852	Oct. 20	1998	476	77	404
Timepiece-regulator.....	W. C. Ball.....	565,955	Aug. 18	1849	450	76	1000
Time-recorder.....	F. S. Cox.....	554,581	Feb. 11	1377	323 324	74	778
Time-recorder.....	E. S. Gaines.....	561,985	June 16	1640	399	75	1725
Time-recorder. Employee's.....	E. W. Lindenau.....	571,272	Nov. 10	1518	358 359 560	77	949
Time-recorder key.....	E. G. Heene.....	571,268	Nov. 10	1511	357	77	948
Time-recorder. Watchman's.....	G. B. Bohling.....	558,477	Apr. 21	1712	414	75	357
Time-recorder. Watchman's.....	K. Müller.....	564,709	July 28	2566	607	76	522
Time-recorder. Watchman's.....	C. L. Reis.....	556,212	Mar. 10	1300	304	74	1389
Time-recorder. Watchman's.....	C. E. Sanford.....	565,037	Aug. 4	132	31, 32	76	642
Time-recorder. Workman's.....	W. L. Bundy.....	553,804	Jan. 28	2336	555 556 557	74	460
Time-recorder. Workman's.....	D. Hepp.....	554,123	Feb. 4	598	134 135	74	613
Time-recorder. Workman's.....	D. Hepp.....	561,316	June 2	443	109 110 111	75	1456
Time-recorder. Workman's.....	C. Kayser.....	558,281	Apr. 14	1361	332 333	75	274
Time-recorder. Workman's.....	J. W. Lambert.....	553,033	Jan. 14	989	240	74	199
Time-recorder. Workman's.....	B. S. Wakeman.....	553,860	Feb. 4	129	25	74	530
Time-recorder. Workman's.....	E. G. Watkins.....	570,241	Oct. 27	2686	638	77	547
Time-recording instrument. Automatic.....	H. F. Eaton.....	559,518	May 5	286	68	75	737
Time-register. Workman's.....	C. A. Widmer.....	556,452	Mar. 17	1775	411	74	1494
Timing apparatus.....	G. F. Brackett.....	555,847	Mar. 3	596	142 143	74	1238
Timing instrument. Vehicle.....	E. G. Dorchester.....	561,702	June 9	1150	273 274	75	1613
Tin and terne plates. Machine for polishing.....	N. D. Lewis.....	571,071	Nov. 10	1165	272	77	883
Tin-plate cleaning and polishing machine.....	D. Cox and L. Spence.....	569,090	Oct. 6	643	147	77	123
Tin-plate cleaning and polishing machine.....	J. G. Hodgson.....	561,111	June 2	58	15, 16	75	1378
Tin-plate. Toughening, chilling, and cleaning.....	W. F. Herbert.....	567,830	Sept. 15	1915	.....	76	1667
Tinning or galvanizing metals.....	A. S. Ramage.....	567,612	Sept. 15	1536	.....	76	1593
Tinting wares.....	A. W. Paull.....	560,067	May 12	1331	.....	75	947
Tipple.....	E. Joseph.....	560,999	May 26	3026	697	75	1327
Tire.....	B. Weber.....	558,132	Apr. 14	1113	271	75	228
Tire. Adjustable wheel.....	J. B. Watt.....	565,398	Aug. 4	811	192	76	767
Tire-adjuster.....	J. T. Taylor.....	573,310	Dec. 15	2177	519	77	1728
Tire. Auxiliary.....	Z. Foster.....	554,922	Feb. 18	1979	467	74	900
Tire. Bicycle.....	J. W. Carns and E. Failor.....	569,172	Oct. 13	781	183	77	165
Tire. Bicycle.....	R. K. Gregory.....	565,451	Aug. 11	905	216	76	804
Tire. Bicycle.....	C. A. Hussey.....	571,444	Nov. 17	1799	429 430	77	1016
Tire. Bicycle.....	O. W. Ketcham.....	554,493	Feb. 11	1236	289	74	750
Tire. Bicycle.....	P. J. McLain.....	555,464	Feb. 25	2969	707	74	1108
Tire. Bicycle.....	L. C. Neal.....	573,907	Dec. 29	3266	780	77	1965
Tire. Bicycle.....	C. H. Reed.....	564,339	July 21	1938	457	76	388
Tire. Bicycle.....	P. Schau.....	557,151	Mar. 31	2965	709	74	1759
Tire. Bicycle.....	C. T. Thompson.....	566,247	Aug. 18	2336	572	76	1094
Tire. Bicycle.....	H. A. Veazie.....	563,822	July 14	998	237 238	76	203
Tire. Bicycle.....	R. S. Williams.....	572,463	Dec. 1	662	156	77	1404
Tire. Bicycle.....	F. L. Woodhouse.....	574,015	Dec. 29	3477	831	77	2002
Tire-bolt cutter.....	J. C. Clinch.....	554,504	Feb. 11	1249	292	74	752
Tire-bolter.....	J. Kloppe.....	566,520	Aug. 25	2862	695	76	1209
Tire clamp. Vehicle.....	F. P. Miller.....	557,138	Mar. 31	2942	704	74	1755
Tire cleaner. Bicycle.....	W. H. Clark.....	572,355	Dec. 1	475	111	77	1369
Tire-coupling.....	E. Gorsuch.....	573,781	Dec. 22	3033	719	77	1907
Tire-covers for velocipedes. Method of and apparatus for making.....	H. J. Doughty.....	560,123	May 12	1431	312	75	967
Tire. Elastic.....	R. Temmel.....	566,354	Aug. 25	2540	619	76	1147
Tire. Elastic metallic.....	J. D. Prescott.....	560,173	May 12	1521	344	75	982
Tire. Elastic steel.....	B. Fröhlich.....	563,761	July 14	893	213	76	183
Tire. Elastic tubular.....	L. J. Wilde.....	572,738	Dec. 8	1158	278	77	1518
Tire fabric.....	P. Krumnscheid.....	573,008	Dec. 15	1618	389	77	1625
Tire-fastening.....	A. M. Williamson.....	571,872	Nov. 24	2561	607	77	1176
Tire for bicycle-wheels. Ice.....	E. Bruner.....	560,256	May 19	1686	384	75	1064
Tire for bicycles.....	W. H. Taylor.....	568,813	Oct. 6	172	41	77	35
Tire for bicycles. Pneumatic.....	J. A. Rousseau.....	567,512	Sept. 8	1366	329	76	1546
Tire for bicycles. Pneumatic.....	G. Van Wageningen.....	559,987	May 12	1173	261	75	920
Tire for vehicle-wheels. Cushion.....	A. E. Spencer.....	566,032	Aug. 18	1990	482	76	1029
Tire for vehicle-wheels. Cushion.....	A. E. Spencer.....	569,523	Oct. 13	1387	327	77	278
Tire for vehicle-wheels. Elastic sectional.....	J. Lindsay.....	573,471	Dec. 22	2492	591	77	1804
Tire for vehicle-wheels. Pneumatic.....	C. K. Welch.....	564,008	July 28	2746	652	76	552
Tire for vehicle-wheels. Spring.....	J. Ridge.....	573,920	Dec. 29	3290	787	77	1970
Tire for vehicle-wheels. Spring.....	J. Ridge.....	573,921	Dec. 29	3291	788	77	1970
Tire for vehicle-wheels. Spring.....	J. Ridge.....	573,922	Dec. 29	3293	788	77	1970
Tire for vehicles. Cushion.....	J. R. Boice.....	569,403	Oct. 13	1187	280	77	242
Tire for wheels. Pneumatic.....	J. Mills, W. H. Ratcliff, and F. L. Barr.....	564,210	July 21	1722	403	76	350
Tire-heater.....	F. Ringstmeier.....	558,743	Apr. 21	2160	521	75	439
Tire. Inflatable.....	A. Pulbrook.....	564,763	July 28	2673	635	76	540
Tire. Inflatable wheel.....	A. Pulbrook.....	553,869	Feb. 4	97	21	74	523
Tire. Inflatable wheel.....	A. Pulbrook.....	566,796	Sept. 1	100	25	76	1299
Tire or like valve.....	G. H. F. Schrader.....	565,573	Aug. 11	1154	277	76	849
Tire. Pneumatic.....	C. W. Bernson.....	573,838	Dec. 22	3144	79	77	1928
Tire. Pneumatic.....	F. M. Brown and E. J. Brosnan.....	565,258	Aug. 4	594	140	76	724
Tire. Pneumatic.....	G. H. Chinnock.....	560,192	May 19	1556	353	75	1042

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Tire. Pneumatic	E. Christiansen	557,970	Apr. 7	794	189	75	149
Tire. Pneumatic	L. Claxton	573,444	Dec. 22	2441	579	77	1795
Tire. Pneumatic	H. C. Dean	560,196	May 19	1566	355	75	1043
Tire. Pneumatic	H. J. Doughty	558,162	Apr. 14	1158	284	75	237
Tire. Pneumatic	H. Faulkner	571,947	Nov. 24	2700	639	77	1204
Tire. Pneumatic	B. V. Gintz	564,190	July 21	1693	396	76	344
Tire. Pneumatic	A. Graff	562,893	June 30	3222	779	75	2055
Tire. Pneumatic	A. Graff	568,564	Sept. 29	3217	775	76	1936
Tire. Pneumatic	G. B. Humphrey	561,512	June 2	800	195	75	1522
Tire. Pneumatic	T. B. Jeffery	556,931	Mar. 24	2582	608	74	1661
Tire. Pneumatic	W. T. Kennedy	555,046	Feb. 18	2221	529	74	950
Tire. Pneumatic	J. G. A. Kitchen	556,933	Mar. 24	2584	608	74	1662
Tire. Pneumatic	J. C. Lighthouse	559,297	Apr. 28	3180	768	75	648
Tire. Pneumatic	L. K. McClymonds	567,993	Sept. 22	2191	527	76	1732
Tire. Pneumatic	P. Mercier	561,904	June 9	1503	363	75	1679
Tire. Pneumatic	J. G. Moomy	554,711	Feb. 18	1610	380	74	838
Tire. Pneumatic	J. G. Moomy	567,839	Sept. 15	1927	462	76	1669
Tire. Pneumatic	A. F. Munro and G. O. Hitchings	566,603	Aug. 25	2977	727	76	1231
Tire. Pneumatic	J. W. Paige	562,650	June 23	2766	672	75	1950
Tire. Pneumatic	R. Pattison	573,997	Dec. 29	3449	825	77	1997
Tire. Pneumatic	F. H. Perry	553,566	Jan. 28	1943	458	74	407
Tire. Pneumatic	G. W. Rowe and W. G. Heys	558,703	Apr. 21	2095	505	75	427
Tire. Pneumatic	C. S. Scott	557,441	Mar. 31	3493	835	74	1855
Tire. Pneumatic	F. J. Seiberling	564,293	July 21	1861	436	76	374
Tire. Pneumatic	T. B. Sloper	564,114	July 14	1553	365	76	306
Tire. Pneumatic	M. Stern and G. Rothgiesser	560,376	May 19	1896	432	75	1101
Tire. Pneumatic	F. Sweetland	559,873	May 12	962	214	75	877
Tire. Pneumatic	G. W. Weiss	569,074	Oct. 6	614	139	77	118
Tire. Pneumatic	H. J. Weldon	560,246	May 19	1663	379	75	1060
Tire. Pneumatic	E. W. Young	566,113	Aug. 18	2126	518	76	1053
Tire. Pneumatic bicycle	F. Douglas	559,937	May 12	1081	240	75	898
Tire. Pneumatic cycle	H. Grüttner	562,723	June 23	2901	703	75	1976
Tire-protector	J. R. Terry	559,958	May 12	1114	249	75	904
Tire. Puncture-proof	A. L. Smith	556,379	Mar. 17	1636	383	74	1468
Tire. Puncture-proof	A. L. Smith	557,709	Apr. 7	323	77	75	61
Tire. Puncture-proof pneumatic	A. L. Smith	563,691	July 7	766	181	76	143
Tire. Punctureless pneumatic	C. P. Conrad	557,531	Mar. 31	3657	876	74	1884
Tire-repairer. Bicycle	W. H. Howard	566,764	Sept. 1	54	14	76	1290
Tire-repairing device	D. H. Cox, Jr.	566,562	Aug. 25	2919	712	76	1220
Tire. Rubber	J. D. Beebe	558,342	Apr. 14	1461	359	75	294
Tire. Rubber	F. W. Huestis	558,689	Apr. 21	2073	501	75	423
Tire. Rubber	R. A. Leigh	573,671	Dec. 22	2866	677	77	1875
Tire scraper. Bicycle	G. A. Mylacraire	564,831	July 28	2781	661	76	559
Tire. Sectional pneumatic	A. W. Tibbitt	567,521	Sept. 8	1378	332	76	1548
Tire-setter	D. D. Frisbee	567,462	Sept. 8	1299	313	76	1532
Tire-setting machine	J. B. West	555,060	Feb. 18	2241	536	74	953
Tire shield. Pneumatic	J. H. Lowrey	567,245	Sept. 8	887	212	76	1461
Tire-shrinker	M. D. Gould, Sr.	553,192	Jan. 14	1283	310	74	255
Tire-shrinker	W. Hullerman	564,690	July 28	2532	599	76	515
Tire shrinker or expander. Cold	P. B. Tice	568,643	Sept. 29	3377	809	76	1966
Tire. Spring	J. S. Eddy	556,498	Mar. 17	1862	434	74	1511
Tire-tightener	F. M. Cromer	564,007	July 14	1354	315	76	267
Tire-tightener	S. and T. Forbes	567,782	Sept. 15	1821	437	76	1648
Tire-tightener	E. Gorsuch	573,780	Dec. 22	3033	718	77	1907
Tire-tightener	G. J. Grandpre	556,142	Mar. 10	1168	274	74	1366
Tire-tightener	G. A. Krohn	567,397	Sept. 8	1187	284	76	1513
Tire-tightener	D. I. Lybe	561,598	June 9	962	230	75	1577
Tire-tightener	W. G. Simpson	565,366	Aug. 4	756	180	76	757
Tire-tightener	B. Wyborny	555,994	Mar. 10	888	212	74	1317
Tire-tightening washer	J. Pollock	573,616	Dec. 22	2733	619	77	1851
Tire-upsetting machine	H. E. Olstad	559,197	Apr. 28	2997	723	75	618
Tire valve. Bicycle	J. Hardman, Jr.	559,606	Apr. 21	1925	465	75	396
Tire-valve fastening	G. H. F. Schrader and H. P. Kraft	552,722	Jan. 7	391	102	74	76
Tire valve. Pneumatic	W. E. Collins	573,392	Dec. 15	2306	551	77	1752
Tire valve. Pneumatic	W. E. Gibbs	560,492	May 19	2102	480	75	1137
Tire valves. Testing device for pneumatic	A. M. Shurtleff	555,344	Feb. 25	2745	613	74	1066
Tire. Vehicle	J. Lang and A. Fischer	566,588	Aug. 25	2954	721	76	1227
Tire. Vehicle	J. A. Moloney	546,597	Aug. 25	2967	724	76	1229
Tire. Vehicle	C. K. Welch	562,869	June 30	3180	770	75	2047
Tire. Vehicle-wheel	H. J. Dykes	565,611	Aug. 11	1220	294	76	861
Tire. Vehicle-wheel	S. S. Elder	562,811	June 30	3060	740	75	2024
Tire. Vehicle-wheel	S. S. Elder	569,864	Oct. 20	2014	480	77	407
Tire. Vehicle-wheel	C. A. Pratt	569,566	Oct. 13	1473	346	77	294
Tire. Vehicle-wheel	W. E. Steinbach	560,946	May 26	2954	678	75	1313
Tire. Vehicle-wheel	G. Young	558,248	Apr. 14	1306	319	75	264
Tire. Wheel	H. Carmont	557,050	Mar. 24	2795	664	74	1703
Tire. Wheel	W. Corliass	569,370	Oct. 13	1130	269	77	232
Tire. Wheel	J. and W. D. Eynon	556,341	Mar. 17	1563	366	74	1453
Tire. Wheel	A. Gerstner	558,644	Apr. 21	1985	481	75	407
Tire. Wheel	T. B. Jeffery	558,956	Apr. 28	2532	614	75	526
Tire. Wheel	T. B. Jeffery	558,957	Apr. 28	2535	614	75	527
Tire. Wheel	E. A. Thuston and G. E. Gill	553,698	Jan. 28	2166	512	74	448
Tire. Wheel	H. A. Veazie	563,823	July 14	1001	238	76	203
Tires. Air-valve for pneumatic	W. E. Bradner	560,188	May 19	1551	351	75	1041
Tires. Air-valve for pneumatic	J. Schipkowsky	559,813	May 12	826	194	75	853
Tires and covers for same. Mold for making pneumatic	J. F. Ives	557,128	Mar. 31	2925	700	74	1752
Tires. Apparatus for inserting springs in bicycle	H. M. Lindstedt	565,476	Aug. 11	952	226	76	814
Tires. Apparatus for manufacturing pneumatic	J. Sherbondy	557,033	Mar. 24	2771	658	74	1698
Tires. Apparatus for repairing pneumatic	J. O. De Wolf	561,378	June 2	558	140	75	1478
Tires. Apparatus for repairing pneumatic	J. G. Moomy	567,402	Sept. 8	1194	286	76	1515
Tires. Automatic pump for inflating pneumatic	R. Mainardi	573,826	Dec. 22	3125	744	77	1924
Tires. Automatic pump for pneumatic	T. M. Jenks	571,001	Nov. 10	1042	244	77	861

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Tires. Armor for pneumatic	C. W. Twist	559,152	Apr. 28	2918	705	75	599
Tires. Clamp for repairing bicycle	W. Foth	568,763	Oct. 6	73	16	77	17
Tires. Device for inflating pneumatic	F. A. Buescher	563,839	July 14	1044	246	76	210
Tires. Device for putting on rubber	A. W. Grant	555,480	Feb. 25	3001	715	74	1113
Tires. Device for repairing pneumatic	L. M. Devore	570,155	Oct. 27	2525	599	77	517
Tires. Evacuating device for pneumatic	H. A. Veazie	564,666	July 28	2494	589	76	503
Tires. Gunning-tool for mending pneumatic	A. N. Clark	559,120	Apr. 28	2821	683	75	585
Tires. Hole-closing device for bicycle	J. L. Hatch	562,764	June 23	2966	718	75	1989
Tires. Implement for replacing inner tubes of pneumatic	W. S. McCutcheon	570,142	Oct. 27	2506	594	77	513
Tires. Implement for repairing pneumatic	C. L. Pepper	565,413	Aug. 4	833	197	76	771
Tires. Inflator for pneumatic	J. Savoie	556,777	Mar. 24	2334	550	74	1615
Tires. Inflating-valve for pneumatic	W. Brookes	564,502	July 21	2201	516	76	436
Tires. Inflation-tube for pneumatic	W. Ellis	558,552	Apr. 21	1826	445	75	379
Tires. Machine for making fabric for vehicle	F. A. Kress	561,114	June 2	62	17	75	1379
Tires. Machine for upsetting wheel	L. F. Fairbanks	554,484	Feb. 11	1221	286	74	747
Tires. Manufacturing	R. Cowen	565,854	Aug. 11	1659	407	76	945
Tires. Manufacturing pneumatic	H. W. Ladd	553,003	Jan. 14	948	229	74	191
Tires. Manufacturing pneumatic	F. W. Wood	571,820	Nov. 24	2465		77	1158
Tires. Means for closing punctures in pneumatic	E. G. Hurt and E. M. Hostetter	569,757	Oct. 20	1844	437	77	376
Tires. Means for preventing puncture of pneumatic	E. E. Ellis	567,565	Sept. 8	1447	348	76	1561
Tires. Means for setting	C. S. Martin	568,363	Sept. 29	2860	687	76	1871
Tires. Mending punctures in pneumatic	J. W. Mix	553,562	Jan. 28	1936	457	74	406
Tires. Method of and apparatus for making pneumatic	H. J. Doughty	567,457	Sept. 8	1282	310	76	1530
Tires or other tubes and molds for use therein. Forming	J. G. Moomy	553,212	Jan. 14	1318	311	74	261
Tires. Patch for bicycle	A. C. Rehbein	568,794	Oct. 6	139	34	77	29
Tires. Probe for inserting patches in pneumatic	J. W. Mix	557,213	Mar. 31	3094	742	74	1779
Tires. Protective armor for pneumatic	D. A. Zan	560,883	May 26	2849	652	75	1293
Tires. Protector for pneumatic	E. Davies and A. Harrison	572,159	Dec. 1	117	28	77	1300
Tires. Puncture-proof covering for pneumatic	C. W. Hazeltine	560,408	May 19	1954	446	75	1110
Tires. Repair-plug for pneumatic	D. W. Colhapp	571,108	Nov. 10	1249	290	77	898
Tires. Repair-tool for pneumatic	G. Kirkegaard	566,772	Sept. 1	66	17	76	1292
Tires. Repairing pneumatic	P. Mercier	557,851	Apr. 7	584	139	75	110
Tires to wheels. Machine for securing	W. M. Hamilton	563,856	July 14	1074	253	76	216
Tires. Tool for mending punctures in pneumatic	A. and A. T. Heywood	570,664	Nov. 3	463	109	77	725
Tires. Tool for repairing pneumatic	D. A. Syme	573,049	Dec. 15	1696	406	77	1640
Tires. Valve device for pneumatic	H. W. Adams, Jr.	560,193	May 19	1545	349	75	1039
Tires. Valve for pneumatic	S. L. Sears	553,791	Jan. 28	2313	549	74	476
Tires. Vulcanizer for repairing bicycle	J. E. Bancroft and A. U. Betts	567,185	Sept. 8	794	187	76	1444
Tires with cement. Needle for repairing punctured bicycle	C. F. White	571,422	Nov. 17	1760	420	77	1009
Tires. Woven fabric for wheel	J. Lyall	557,409	Mar. 31	3445	826	74	1846
Toaster	E. P. Davies	573,574	Dec. 22	2660	632	77	1835
Toaster	R. G. A. Meier	567,108	Sept. 1	665	155	76	1408
Toaster	S. E. Onstott	562,646	June 23	2761	671	75	1949
Toaster and broiler	F. S. Rudge	561,728	June 9	1198	284	75	1622
Toasting-fork	A. Hofheimer	555,952	Mar. 10	806	193	74	1300
Tobacco. Apparatus for packing leaf	T. Gibon	567,896	Sept. 15	2011	483	76	1668
Tobacco-case	P. Hearsch	561,586	June 9	940	225	75	1573
Tobacco casing and flavoring machine	J. H. Kester	556,989	Mar. 24	2679	632	74	1600
Tobacco-cutter	T. Clark	568,296	Sept. 22	2740	654	76	1834
Tobacco-cutting device. Plug	A. E. Lycan	571,905	Nov. 24	2631	624	77	1189
Tobacco-cutting machine	G. Bentley	572,149	Dec. 1	94	21	77	1296
Tobacco-cutting machine	N. Du Brul	560,483	May 19	2028	476	75	1135
Tobacco-granulator	J. W. Daniel	562,587	June 23	2667	646	75	1932
Tobacco-leaf spreader	J. T. Carter	563,656	July 7	697	164	76	131
Tobacco-leaf-stemming machine	R. W. Coffee	569,575	Oct. 13	1491	351	77	297
Tobacco. Machine for casing and flavoring	J. H. Kester	561,325	June 2	460	114	75	1459
Tobacco. Machine for grading and assorting leaf	J. M. and O. A. Gale	569,189	Oct. 13	806	189	77	169
Tobacco-moistener	H. T. Sidway	562,495	June 23	2495	604	75	1900
Tobacco-ordering apparatus	C. D. Campbell	556,916	Mar. 24	2560	603	74	1657
Tobacco-ordering apparatus	J. K. Proctor	553,723	Jan. 28	2213	524	74	457
Tobacco-packing machine	C. W. Guerrant	565,349	Aug. 4	730	174	76	752
Tobacco-pipe	J. Andersson	572,240	Dec. 1	257	61	77	1327
Tobacco-pipe	E. W. Bryant	566,739	Sept. 1	14	4	76	1203
Tobacco-pipe	W. E. Elam	562,593	June 23	2684	648	75	1934
Tobacco-pipe	C. A. Fingal	556,666	Mar. 17	2123	496	74	1559
Tobacco-pipe	J. M. Grau	559,485	May 5	237	53	75	728
Tobacco-pipe	H. and H. Hunt, Jr.	573,662	Dec. 22	2850	672	77	1872
Tobacco-pipe	F. J. Kaldenberg	552,711	Jan. 7	367	96	74	71
Tobacco-pipe	J. F. Mallinckrodt	562,472	June 23	2463	597	75	1894
Tobacco-pipe	C. E. Riecker	553,074	Jan. 14	1072	261	74	215
Tobacco-pipe	F. W. Schroeder	565,183	Aug. 4	439	105	76	698
Tobacco-pipe	A. von Sebastiani	562,492	June 23	2489	604	75	1898
Tobacco-pipe	G. Stark	571,805	Nov. 24	2438	581	77	1154
Tobacco-pipe	A. F. Volk	568,504	Sept. 29	3098	746	76	1915
Tobacco-pipe and cigar or cigarette holder	H. E. Gilchrist	564,482	July 21	2177	510	76	432
Tobacco-pipe attachment	H. Seidler	565,302	Aug. 4	655	156	76	736
Tobacco-pipe or cigar-holder stem	E. O. Sjolander	568,461	Sept. 29	3023	726	76	1902
Tobacco-pouch	G. E. Siebler	556,442	Mar. 17	1757	402	74	1491
Tobacco-press	C. W. Bacon	562,882	Jan. 14	729	178	74	151
Tobacco-stemming machine	J. B. Underwood	556,324	Mar. 10	1532	357	74	1434
Tobacco-tag and badge. Combined	L. H. Neudecker	557,866	Apr. 7	607	144	75	114

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Tobacco-tagging machine. Plug.....	T. F. Scullin and A. Maehlen.....	567,174	Sept. 8	780	{ 183 184	{ 76	1441
Tobacco-treating apparatus.....	J. Wright.....	569,313	Oct. 13	1035	246	77	214
Toboggan.....	H. P. Herron.....	571,665	Nov. 17	2177	524	77	1085
Toboggan-car clutch.....	E. S. Murray and H. R. Cole.....	561,169	June 2	168	43	75	1399
Toe. Box.....	A. Seaver.....	559,618	May 5	461	107	75	771
Toe-clip.....	W. T. Robertson.....	559,952	May 12	1104	246	75	902
Toe-pad hook.....	F. A. Neider.....	562,907	June 30	3245	784	75	2060
Toe-weight.....	G. D. Williams.....	560,117	May 12	1423	320	75	965
Toes of footwear. Device for stiffening.....	W. D. Brewer.....	564,966	Aug. 4	9	3	76	618
Toilet-box.....	J. W. Beck.....	569,402	Oct. 13	1187	280	77	242
Toilet-box.....	M. S. Rowland.....	563,985	July 14	1316	307	76	259
Toilet-case.....	G. W. Glover.....	566,752	Sept. 1	34	9	76	1287
Toilet-case.....	G. W. Glover.....	566,753	Sept. 1	36	9	76	1287
Toilet-rack. Combination.....	E. J. Morton.....	562,334	June 16	2328	542	75	1-34
Toilet-stand. Folding kitchen.....	W. G. Price.....	559,744	May 5	653	158	75	807
Tongs.....	O. L. Owen.....	572,564	Dec. 8	837	201	77	1456
Tongs.....	J. Quinn and W. H. Bradley.....	553,737	Jan. 28	2339	530	74	462
Tongs. Butter.....	J. R. Farnham.....	557,982	Apr. 7	816	194	75	154
Tongs. Crimping.....	W. L. T. Kuechel.....	563,494	July 7	439	102	76	84
Tongs for turning pipes.....	J. M. Palmer.....	561,274	June 2	340	86	75	1435
Tongs. Multiple.....	J. F. Steward.....	561,831	June 9	1379	331	75	1654
Tongs-operating apparatus.....	H. Aiken.....	564,041	July 14	1410	{ 327 328	{ 76	277
Tongs or grapple.....	H. Sawyer.....	569,939	Oct. 20	2148	{ 508 509	{ 77	432
Tongs. Roofing.....	J. Kurtz.....	566,719	Aug. 25	3161	774	76	1263
Tongs. Skelp.....	P. Boyd.....	557,480	Mar. 31	3559	851	74	1868
Tongues for wheeled scrapers.....	H. L. Jacobs.....	556,753	Mar. 24	2287	537	74	1607
Tongue steader. Wagon.....	E. Brinck.....	554,577	Feb. 11	1368	321	74	776
Tongue-support. Vehicle.....	J. F. Mitchell and E. A. Rich.....	562,640	June 23	2752	668	75	1948
Tongue support. Wagon.....	J. H. Cassidy.....	564,590	July 28	2378	560	76	486
Tool and tool-handle.....	F. A. Reichardt.....	574,043	Dec. 29	3529	843	77	2012
Tool-blanks. Making.....	E. Rogers.....	566,937	Sept. 1	347	81	76	1349
Tool. Box.....	W. C. Huston.....	563,377	July 7	244	55	76	49
Tool. Combination.....	P. A. Anderson and J. B. Peterson.....	556,297	Mar. 10	1486	345	74	1424
Tool. Combination.....	L. D. Ball.....	561,957	June 16	1597	387	75	1717
Tool. Combination.....	C. E. Billings.....	554,046	Feb. 4	441	98	74	585
Tool. Combination.....	G. J. Capawell.....	572,406	Dec. 1	579	137	77	1388
Tool. Combination.....	O. M. Chesney.....	569,955	Oct. 20	2177	517	77	437
Tool. Combination.....	O. Engman.....	569,963	Oct. 20	2188	519	77	439
Tool. Combination.....	J. Frye.....	553,579	Jan. 28	1967	466	74	412
Tool. Combination.....	W. H. Hummel and L. H. Lothridge.....	562,611	June 23	2710	656	75	1940
Tool. Combination.....	H. and H. Hunt, Jr.....	566,176	Aug. 18	2326	542	76	1072
Tool. Combination.....	A. Lippe.....	561,597	June 9	961	230	75	1577
Tool. Combination.....	O. E. Morse and E. H. Brundage.....	552,853	Jan. 7	656	161	74	124
Tool. Combination.....	F. A. Roseman.....	570,188	Oct. 27	2584	613	77	528
Tool. Combination.....	J. F. Ryder.....	571,287	Nov. 10	1541	366	77	953
Tool. Combination.....	L. D. Smith.....	562,746	June 23	2940	712	75	1983
Tool. Combination.....	N. M. Stebbins.....	574,178	Dec. 29	3802	908	77	2060
Tool. Combination.....	A. A. Tattersall.....	560,824	May 26	2717	624	75	1269
Tool. Combination.....	C. E. Thompson.....	568,381	Sept. 29	2-90	695	76	1877
Tool. Combination.....	W. Topliff.....	559,231	Apr. 28	3076	742	75	629
Tool-fishing apparatus.....	G. L. McKain.....	571,279	Nov. 10	1528	362	77	951
Tool-handle.....	P. H. Lettré.....	565,360	Aug. 4	748	178	76	756
Tool-handle.....	J. Ridge.....	560,546	May 19	2188	499	75	1152
Tool-handle fastening.....	A. Bohy and L. Fritz.....	567,676	Sept. 15	1647	397	76	1615
Tool-handles. Detachable fastening for.....	A. Bohy.....	573,565	Dec. 22	2649	629	77	1833
Tool-holder.....	C. E. Goodspeed.....	570,923	Nov. 10	916	212	77	838
Tool-holder.....	J. S. Norton.....	555,733	Mar. 3	420	97	74	1205
Tool-holder.....	G. Salot.....	560,111	May 12	1415	318	75	964
Tool-holder. Adjusting.....	H. S. Hanstine.....	571,900	Nov. 24	2624	621	77	1188
Tool-holders. Automatic reversing mechanism for.....	A. D. Quint.....	564,223	July 21	1740	407	76	353
Tool. Mechanic's.....	E. C. Strange.....	563,089	June 30	3594	861	75	2130
Tool-post washer.....	R. D. Cody.....	568,428	Sept. 29	2965	712	76	1891
Tool-shank.....	C. A. Maynard.....	565,910	Aug. 18	1770	431	76	984
Tool-support.....	F. Hammer.....	555,092	Feb. 25	2307	548	74	983
Tool-turret.....	N. D. Chard.....	567,080	Sept. 1	618	143	76	1399
Tools to handles. Attaching.....	T. H. Windle.....	568,652	Sept. 29	3398	813	76	1970
Tools while being ground or sharpened. Device for holding.....	J. Mowrer.....	553,010	Jan. 14	957	232	74	193
Tooth. Artificial.....	H. V. Des Portes.....	557,654	Apr. 7	241	59	75	45
Tooth-cleaning instrument.....	J. Weile.....	555,139	Feb. 25	2387	566	74	999
Tooth-crown. Artificial.....	J. B. Wells.....	558,133	Apr. 14	1115	272	75	228
Tooth-crown attachment.....	C. A. Davis.....	553,394	Jan. 21	1639	392	74	334
Tooth-crown. Detachable porcelain.....	W. L. Mason.....	566,695	Aug. 25	3171	761	76	1257
Tooth-crowns. Means for constructing seamless metal.....	A. T. McMillin.....	570,044	Oct. 27	2323	551	77	478
Tooth-crowns. Mold for shaping metallic.....	L. L. White.....	571,102	Nov. 10	1239	288	77	896
Toothpick.....	H. Falkenstein.....	553,610	Jan. 28	2019	478	74	421
Toothpick-machine receiving and delivering spout.....	H. P. Churchill.....	570,744	Nov. 3	602	138	77	749
Tooth powder box.....	J. P. Hendrick, Jr.....	567,942	Sept. 15	2092	504	76	1700
Top.....	W. C. Maynard.....	566,922	Sept. 1	322	75	76	1344
Top. Spinning.....	A. P. Monnier.....	561,944	June 9	1571	381	75	1692
Top. Spinning.....	E. Segassie.....	567,008	Sept. 1	486	113	76	1373
Topographical sections. Apparatus for automatically plotting.....	C. W. Smith and E. B. Noyes.....	565,695	Aug. 11	1369	{ 333 334	{ 76	891
Torch. Oil.....	L. Schutte and A. S. Vogt.....	566,024	Aug. 18	1979	480	76	1027
Torch or breamer for painters' or other purposes. Oil.....	J. P. Hayes.....	558,948	Apr. 28	2522	611	75	524
Torpedo-guard.....	G. H. Jones.....	559,490	May 5	241	54, 55	75	729
Torpedo. Marine.....	L. F. Johnson, W. J. Slacke, and H. Lacy.....	559,711	May 5	601	144	75	797
Torpedo-steering mechanism.....	L. Obry.....	562,235	June 16	2062	{ 499 500	{ 75	1803

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Towel-holder.....	L. F. Bristol, J. O. Baxter, and J. M. Searles.....	569,608	Oct. 20	1553	365	77	324
Tower-rack.....	S. J. Holmes.....	568,905	Oct. 6	320	74	77	61
Tower construction. Tubular.....	C. O. Weidman.....	566,552	Aug. 25	2908	709	76	1217
Tower. Metal.....	J. Todd.....	569,687	Oct. 20	1705	403	77	352
Tower-striker.....	F. W. Cole.....	566,843	Sept. 1	184	42	76	1317
Towing apparatus.....	A. de Bovet.....	570,839	Nov. 3	763	{ 174 175 }	77	780
Towing apparatus. Electric.....	A. E. Schatz.....	572,377	Dec. 1	536	127	77	1380
Towing-machine.....	F. S. Manton.....	562,316	June 16	2197	{ 534 535 }	75	1828
Towing vessels. Compensating mechanism for.....	C. E. Newell.....	561,172	June 2	181	45, 46	75	1401
Toy.....	J. Baer.....	565,254	Aug. 4	569	139	76	723
Toy.....	W. Barth.....	557,756	Apr. 7	425	100	75	80
Toy.....	A. L. Bernardin.....	560,833	May 26	2738	628	75	1273
Toy.....	A. Blum.....	563,354	July 7	210	47	76	42
Toy.....	M. Bolton.....	553,830	Feb. 4	19	6	74	508
Toy.....	J. L. Collins.....	556,333	Mar. 17	1552	363	74	1451
Toy.....	J. J. Deal.....	570,595	Nov. 3	301	74	77	694
Toy.....	C. Demorest.....	571,754	Nov. 24	2356	563	77	1137
Toy.....	G. Eadi.....	561,978	June 16	1631	397	75	1723
Toy.....	C. Engel.....	568,972	Oct. 6	438	98	77	84
Toy.....	S. B. Field.....	561,781	June 9	1297	312	75	1640
Toy.....	W. E. Forbes.....	563,151	June 30	3692	884	75	2148
Toy.....	M. T. Gedney.....	552,881	Jan. 7	722	176	74	135
Toy.....	E. T. Gibson.....	565,450	Aug. 11	901	215	76	803
Toy.....	W. A. Hoffmann.....	572,166	Dec. 1	127	30	77	1302
Toy.....	J. L. Kendall.....	564,083	July 14	1497	351	76	294
Toy.....	J. G. A. Kitchen.....	559,293	Apr. 28	3177	767	75	647
Toy.....	R. Luckenbach.....	560,728	May 26	2556	588	75	1237
Toy.....	R. Luckenbach.....	560,729	May 26	2557	588	75	1238
Toy.....	J. F. Prentice.....	555,181	Feb. 25	2453	581	74	1012
Toy.....	F. B. Scaife.....	555,740	Mar. 3	435	102	74	1207
Toy.....	C. Spiegle, Jr.....	562,674	June 23	2804	681	75	1957
Toy.....	F. R. Treasure.....	569,728	Oct. 20	1788	425	77	366
Toy.....	J. W. Weaver.....	565,309	Aug. 4	665	160	76	738
Toy.....	B. B. Whaley.....	554,555	Feb. 11	1327	311	74	767
Toy.....	E. Wilmont.....	563,533	July 7	503	117	76	96
Toy.....	J. L. Wilson.....	560,607	May 19	2294	525	75	1172
Toy. Advertising.....	R. S. West.....	571,548	Nov. 17	1969	473	77	1050
Toy and advertising-machine. Mechanical.....	C. S. Pocock.....	571,015	Nov. 10	1074	250	77	266
Toy and box. Interchangeable.....	D. Snedeker.....	564,227	July 21	1746	408	76	354
Toy arm.....	F. Burns.....	560,570	May 19	2226	{ 508 509 }	75	1159
Toy balloon.....	W. S. Lane and J. E. Cooney.....	563,287	July 7	89	22	76	19
Toy base-ball game.....	J. M. Roberts.....	554,733	Feb. 18	1645	{ 388 389 }	74	844
Toy bicycle.....	H. H. Martin.....	560,103	May 12	1398	314	75	960
Toy bird. Flying.....	J. Nesbit.....	559,536	May 5	321	77	75	745
Toy building-block.....	H. W. Stratton.....	570,688	Nov. 3	508	118	77	733
Toy cannon.....	C. A. Hotchkiss.....	556,057	Mar. 10	1017	243	74	1338
Toy cannon and target.....	J. Hannan.....	569,282	Oct. 13	974	233	77	201
Toy cotton-boll.....	E. S. Lathrop.....	558,733	Apr. 21	2140	516	75	436
Toy derrick. Self-supporting.....	W. M. Hart.....	568,975	Oct. 6	441	98	77	85
Toy. Detonating.....	F. A. Freygang.....	560,901	May 26	2877	660	75	1298
Toy egg.....	J. W. Gottschalk and S. P. Sipe.....	564,686	July 28	2523	598	76	515
Toy figure. Articulated.....	F. M. Spiegle.....	572,730	Dec. 8	1140	275	77	1514
Toy for making soap-bubbles.....	J. C. Daugherty.....	565,332	Aug. 4	701	167	76	745
Toy furniture.....	J. E. Wilton.....	560,957	May 26	2971	682	75	1316
Toy. Jumping.....	F. P. Shek.....	573,241	Dec. 15	2030	486	77	1702
Toy marble-shooter.....	W. E. Everitt.....	552,634	Jan. 7	223	62	74	44
Toy match-exploder.....	E. A. Trussell.....	560,115	May 12	1421	319	75	965
Toy. Mechanical.....	B. W. Annin.....	564,961	Aug. 4	3	1	76	617
Toy. Mechanical.....	E. Rowe.....	565,570	Aug. 11	1146	276	76	848
Toy. Mechanical.....	W. L. Urquhart.....	563,896	July 14	1156	271	76	232
Toy. Mechanical.....	W. J. Wilcox.....	552,602	Jan. 7	561	136	74	106
Toy money-box.....	R. J. Sellentine.....	569,241	Oct. 13	907	217	77	189
Toy musical wheel.....	A. C. Weston.....	562,995	June 30	3416	821	75	2097
Toy. Optical.....	J. T. Lawrence.....	568,260	Sept. 22	2665	643	76	1623
Toy. Optical.....	R. Pilkington.....	567,863	Sept. 15	1965	471	76	1677
Toy or badge.....	C. J. Rehlin.....	559,343	Apr. 28	3266	789	75	664
Toy or game device.....	W. W. Flye.....	570,544	Nov. 3	195	52	77	674
Toy or puzzle.....	T. W. Patrick.....	570,047	Oct. 27	2327	552	77	478
Toy. Paper.....	E. T. Gibson.....	560,094	May 12	1383	{ 311 312 }	75	957
Toy pistol.....	E. Pruckner.....	560,045	May 12	1282	288	75	938
Toy puzzle.....	M. J. Howlett.....	571,477	Nov. 17	1855	441	77	1026
Toy puzzle.....	A. H. Jones.....	563,968	July 14	1289	302	76	254
Toy. Rotary pneumatic.....	G. Laube.....	571,449	Nov. 17	1807	{ 431 432 }	77	1018
Toy. Self-rotatable.....	L. Senge.....	563,077	June 30	3571	857	75	2126
Toy spectacles.....	W. A. Lorenz.....	560,418	May 19	1975	452	75	1115
Toy. Sounding wheeled.....	S. V. Harbaugh and G. Rudiger, Sr.....	573,217	Dec. 15	1991	478	77	1695
Toy team of horses.....	H. C. Ives.....	564,789	July 28	2714	645	76	547
Toy. Top-spinning.....	J. R. Cluxton.....	561,492	June 2	766	187	75	1514
Toy water-wheel.....	J. D. Kinsley and S. L. Powers.....	568,856	Oct. 6	247	58	77	48
Toy. Yacht-racing.....	E. G. Solomon.....	568,808	Oct. 6	161	38	77	33
Trace and holdback and shaft connection therefor. Combined.....	J. D. Stanley.....	559,544	May 5	338	82	75	748
Trace-carrier.....	H. W. Cooper.....	555,678	Mar. 3	337	77	74	1190
Trace-carrier.....	J. E. Gilliland and F. A. Nevill.....	555,900	Mar. 3	706	170	74	1261
Trace-carrier.....	A. J. McCord and J. F. McGregor.....	566,866	Sept. 1	219	51	76	1324
Trace-carrier.....	F. P. McElfresh.....	563,873	July 14	1108	261	76	223
Trace carrier.....	A. G. Williams.....	567,058	Sept. 1	572	133	76	1390

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Trace-eyeclet	H. C. Holzheimer	567,238	Sept. 8	875	209	76	1458
Trace-fastener	C. B. Easty	556,742	Mar. 24	2259	528	74	1602
Trace-fastener	V. J. Head	563,485	July 7	427	98	76	82
Trace-holder	R. H. Ewing	561,048	May 26	3111	717	75	1343
Trace-holder	G. Laube	572,427	Dec. 1	609	144	77	1394
Trace-holder	G. Laube	572,487	Dec. 1	693	166	77	1410
Trace-loop. Adjustable	S. E. Purdum	574,165	Dec. 29	3757	897	77	2054
Trace or hame hook	J. W. Beckwith	554,228	Feb. 11	764	174	74	661
Trace-releaser, holdback, and brake. Combined	J. Lechner	558,288	Apr. 14	1373	335 336	75	277
Track	H. B. Camp	555,801	Mar. 3	521	126	74	1225
Track and wheel-hanger	W. Loudon	555,321	Feb. 25	2709	635	74	1059
Track and wheel gage	T. N. Ward and M. Crahen	556,790	Mar. 24	2352	554	74	1619
Track-brace	C. J. Redifer	554,728	Feb. 18	1632	385	74	843
Track-brake	L. Kneedler and E. Vorpe	556,723	Mar. 17	2223	518	74	1580
Track-brake	H. Rustin	563,887	July 14	1140	267	76	229
Track-brush holder	W. E. Shepard	565,144	Aug. 4	363	84	76	685
Track-cleaner	J. Baringer	553,823	Feb. 4	3	1, 2	74	505
Track-cleaner	J. H. Frank	552,661	Jan. 7	280	76	74	54
Track-cleaner or current-collector	W. M. Roberts, Jr.	570,339	Oct. 27	2901	689	77	586
Track-cleaning device. Automatic	F. Kiefel	566,456	Aug. 25	2764	672	76	1189
Track construction and fittings	T. Clifton	563,744	July 14	861	205	76	177
Track-drill	J. P. Coleman	572,156	Dec. 1	113	27	77	1299
Track-gage	H. W. Armstrong	558,725	Oct. 6	3	1	77	3
Track-gage	W. R. Payne and W. W. Jeter	555,525	Mar. 3	66	14	74	1143
Track-instrument	T. B. Dixon	570,700	Nov. 3	525	122	77	736
Track instrument	T. B. Dixon	571,472	Nov. 17	1846	440	77	1025
Track-jack	E. P. Caldwell	569,574	Oct. 13	1488	350 351	77	297
Track-jack	P. Larkin	568,141	Sept. 22	2483	597	76	1784
Track-jack	F. Robinson	558,881	Apr. 21	2396	584	75	484
Track or course. Circular	G. V. Russell	567,516	Sept. 8	1371	330	76	1547
Track-sander	F. M. Dean	554,056	Feb. 4	460	103	74	589
Track-sander. Pneumatic	F. M. Dean	563,751	July 14	870	207	76	179
Track-sanding apparatus	H. Tirmann	557,723	Apr. 7	352	82	75	67
Track-sanding apparatus. Automatic	H. L. Leach	572,428	Dec. 1	610	144 145	77	1394
Track-sanding apparatus. Automatic valve for	M. E. Boulter	572,087	Nov. 24	2972	698 699	77	1253
Track-sanding apparatus. Blast-controlling valve for	H. Tirmann	562,049	June 16	1755	424	75	1746
Track-sanding device	D. Pettit	568,489	Sept. 29	3065	737 738	76	1909
Track structure	V. Angerer	553,771	Jan. 28	2288	542	74	471
Track structure	F. P. Howe and V. Angerer	555,772	Mar. 3	473	113	74	1215
Traction-engine	R. S. Angell	571,326	Nov. 17	1609	382	77	981
Traction-engine	S. B. Gray	556,346	Mar. 17	1570	367 368	74	1455
Traction-engine	H. C. Hicks	557,329	Mar. 31	3300	791 792	74	1817
Traction-engine	E. Huber	563,177	June 30	3732	893	75	2156
Traction-engine	E. Huber	565,900	Aug. 18	1734	425	76	976
Traction-engine	C. Keller	566,769	Sept. 1	60	15, 16	76	1291
Traction-engine and harvester attachment	B. Holt	573,593	Dec. 22	2698	640	77	1844
Traction-engine. Gasolene	J. A. Hockett	559,030	Apr. 28	2656	647	75	550
Traction-motor	H. N. Reville, M. M. Ford, and J. W. Kelley	572,371	Dec. 1	508	119 120	77	1374
Traction-motor. Electric	J. F. Place	559,342	Apr. 28	3263	788 789	75	664
Traction-wheel	A. E. Price	555,330	Feb. 25	2722	638	74	1062
Traction-wheel	D. L. Reagan	559,866	May 12	947	212	75	875
Train-despatcher's chart-board	J. T. Williams	565,150	Aug. 4	372	86	76	687
Train-marker and signal-lamp	M. P. Cook	554,986	Feb. 18	2086	496	74	927
Train-order-blank pad	F. W. Weeks	574,349	Dec. 29	4112	977	77	2118
Train-pipe	J. M. Doran	571,755	Nov. 24	2358	563	77	1138
Train-signal	W. Biddle	560,293	May 19	1749	398	75	1075
Train signaling device. Electrical	J. E. Young and E. S. Norton	567,211	Sept. 8	832	197 198	76	1451
Tramway. Aerial	J. H. Dickinson	553,577	Jan. 28	1966	466	74	412
Tramway. Aerial	J. H. Dickinson	570,386	Oct. 27	2977	705 706	77	601
Tramway. Aerial	J. H. Dickinson	570,387	Oct. 27	2979	706	77	601
Tramway or other lines. Apparatus for automatic-ally clearing	A. Morel	562,634	June 23	2745	666 667	75	1946
Tramway-rail. Continuous	W. H. Wright	563,242	June 30	3844	921	75	2177
Tramway-switch	M. W. Hibbard	569,199	Oct. 13	826	193 194 195	77	173
Transferring apparatus	F. H. Richards	572,070	Nov. 24	2923	689 690 691	77	1244
Transformer and cooling same	W. S. Moody	558,090	Apr. 14	1044	255 256	75	213
Transformer regulation. Rotary	R. D. Mershon	571,863	Nov. 24	2545	603	77	1173
Transformer. Rotary	E. Thomson	563,895	July 14	1154	271	76	231
Transit. Surveyor's	C. L. Berger	559,117	Apr. 28	2815	682	75	583
Transmission of intelligence. Apparatus for composite	F. A. Pickernell	558,310	Apr. 14	1413	348	75	285
Transmitter-bracket. Adjustable	A. Y. Gordon	569,376	Oct. 13	1139	271	77	234
Transom-adjuster	H. Newman	571,376	Nov. 17	1706	405	77	899
Transom-lifter	P. Nash	567,193	Sept. 8	805	190	76	1446
Transom-lifter	W. H. Taylor	567,205	Sept. 8	822	195	76	1449
Transom-operating device	V. Larson	558,287	Apr. 14	1372	335	75	277
Transom-rod fastener	C. O. Noack	556,586	Mar. 17	2007	469	74	1537

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Transom-sash adjuster.....	C. E. Frye.....	562,075	June 16	1811	437	75	1755
Transplanter.....	W. L. Field.....	554,669	Feb. 18	1543	364	74	824
Transplanter.....	H. S. Harris.....	565,745	Aug. 11	1463	357	76	908
Transplanter.....	J. S. Ober.....	554,139	Feb. 4	626	141	74	619
Transplanting-machine.....	R. Ames.....	567,439	Sept. 8	1255	{ 302 303 }	76	1526
Transportation. Means for.....	S. A. Mustain.....	567,861	Sept. 15	1961	470	76	1676
Transportation system.....	W. Grosvenor.....	569,280	Oct. 13	966	{ 231 232 }	77	200
Trap:							
See Animal-trap. Rat-trap.							
Ant-trap. Roach-trap.							
Bug or flea trap. Sediment or sand trap.							
Fish-trap. Sewer-trap.							
Fly-trap. Sink-trap.							
Game-trap. Steam-trap.							
Insect-trap. Target-throwing trap.							
Mole-trap. Thermostatic trap.							
Mouse-trap. Water-trap.							
Overflow-trap.							
Trap.....	M. Avramovitz.....	562,879	June 30	3198	774	75	2050
Trap and grappling device. Combined.....	A. B. Clayton.....	560,973	May 26	2988	686	75	1319
Trap for ice-boxes, &c.....	C. A. Stockstrom and R. Curran.....	557,449	Mar. 31	3505	838	74	1857
Trap for waste-pipes for bowls, &c.....	T. J. Sullivan.....	559,504	May 5	268	64	75	734
Trap-release. Electric.....	J. A. R. Elliott.....	558,051	Apr. 14	978	240	75	201
Trap-screen.....	G. N. Winslow.....	568,185	Sept. 22	2556	615	76	1799
Trapeze. Revolving.....	G. J. Kinemann and J. De Zamora.....	567,543	Sept. 8	1409	{ 338 339 }	76	1554
Traveling-bag.....	G. Lowther.....	570,809	Nov. 3	702	160	77	768
Traveling-case.....	O. P. Hurd.....	571,124	Nov. 10	1282	297	77	904
Traveling swing-drill.....	W. H. Law.....	562,005	June 16	1678	408	75	1732
Traversing-machine.....	J. E. Sweet.....	565,642	Aug. 11	1268	{ 306 307 308 309 }	76	871
Tray attachment.....	J. Sellman.....	566,479	Aug. 25	2800	681	76	1196
Treadle.....	J. E. Bradley.....	558,716	Apr. 21	2111	510	75	430
Treadle.....	C. A. Svensson.....	558,228	Apr. 14	1276	312	75	258
Treadle attachment. Hand.....	D. Curtin.....	559,684	May 5	562	133	75	790
Treadle mechanism.....	F. Ljungström.....	573,016	Dec. 15	1631	{ 391 392 }	77	1627
Treadle mechanism.....	G. S. Sanford and H. H. Barnard.....	555,739	Mar. 3	434	102	74	1207
Treadles or levers. Mechanism for changing points of application of loads on.....	F. Ljungström.....	561,331	June 2	469	117	75	1461
Tree-box.....	M. H. Stephens.....	572,133	Dec. 1	72	16	77	1292
Tree-conveyer.....	E. D. Williamson.....	556,605	Mar. 17	2037	477	74	1542
Tree extractor and carrier.....	H. P. Lentz.....	572,902	Dec. 8	1408	341	77	1567
Tree-felling and log-sawing machine.....	J. Lomas.....	552,963	Jan. 14	884	215	74	179
Tree jacket. Orange.....	P. F. Brown.....	560,966	May 26	2981	684	75	1312
Tree-limb supporter. Fruit.....	E. Morgan.....	567,813	Sept. 15	1884	451	76	1661
Tree-protector.....	H. H. Belknap.....	569,082	Oct. 6	632	144	77	121
Tree-protector.....	H. H. Belknap.....	569,083	Oct. 6	633	145	77	121
Tree-protector.....	H. H. Belknap.....	569,084	Oct. 6	633	145	77	121
Tree-protector.....	J. D. Smith.....	557,905	Apr. 7	666	160	75	126
Trees. Device for transporting.....	C. O. Halling.....	569,042	Oct. 6	561	129	77	107
Trees from vermin. Means for protecting.....	A. D. Goodwin.....	555,901	Mar. 3	707	170	74	1261
Trenches for pipes, conduits, &c. Machine for making and refilling.....	E. P. C. Girouard.....	558,683	Apr. 21	2063	{ 498 499 }	75	421
Trestle.....	T. T. Moulton.....	552,964	Jan. 14	886	215	74	180
Trestle. Adjustable.....	J. C. Crist.....	564,048	July 14	1439	335	76	282
Trestle. Extensible folding.....	W. B. Sigby.....	561,138	June 2	105	29	75	1387
Trestle for plasterers, &c.....	E. Sprague.....	555,269	Feb. 25	2609	612	74	1040
Trestle-liner or power-jack.....	W. P. Toomer.....	558,121	Apr. 14	1096	268	75	224
Triangle and protractor. Combined.....	W. J. Belcher.....	570,977	Nov. 10	1002	232	77	853
Tricycle.....	A. T. Condon.....	564,408	July 21	2056	482	76	410
Tricycle.....	T. V. Handloser.....	553,615	Jan. 28	2024	479	74	422
Tricycle.....	D. M. Pfantz.....	573,285	Dec. 15	2117	{ 508 509 }	77	1718
Trigonometrical elucidator.....	R. H. Edmiston.....	570,157	Oct. 27	2528	599	77	517
Trimmer:							
See Cue-trimmer. Paper-trimmer.							
Hedge-trimmer. Rand-trimmer.							
Trimmer-guide.....	F. J. Freese.....	570,392	Oct. 27	2998	710	77	604
Trimming-machine.....	H. M. Leland.....	569,789	Oct. 20	1897	450	77	385
Trimming-machine. Rotary.....	A. S. Vose.....	560,873	May 26	2928	648	75	1289
Trimming. Millinery.....	S. Symons.....	563,817	July 14	993	236	76	202
Triplacating-register.....	W. T. Blaine.....	564,046	July 14	1434	334	76	281
Tripod.....	F. A. Brownell.....	572,326	Dec. 1	428	101	77	1360
Tripod. Camera.....	W. V. Esmond.....	556,966	Mar. 24	2641	621	74	1673
Tripod. Enamellers'.....	E. W. Ball and L. E. Vacheron.....	569,160	Oct. 13	766	172	77	162
Tripods. Adjustable leg for.....	T. H. B. Pierce.....	565,216	Aug. 4	494	118	76	708
Trocar.....	S. E. Baker.....	564,581	July 28	2359	556	76	483
Trolley.....	F. W. Canales.....	567,118	Sept. 1	679	158	76	1411
Trolley.....	B. Dale.....	552,631	Jan. 7	218	60	74	43
Trolley.....	J. A. Hance.....	570,475	Nov. 3	63	15	77	650
Trolley.....	J. H. Holland and P. F. Glazier.....	561,991	June 16	1650	402	75	1726
Trolley.....	W. Kaup.....	553,410	Jan. 21	1667	398	74	340
Trolley.....	D. Lippy, I. E. Finfrock, G. A. Rinehart, and D. R. Francis.....	564,793	July 28	2721	647	76	548
Trolley.....	D. Lippy, I. E. Finfrock, G. A. Rinehart, and D. R. Francis.....	564,794	July 28	2722	647	76	548
Trolley.....	D. Lippy, I. E. Finfrock, G. A. Rinehart, and D. R. Francis.....	564,795	July 28	2723	647	76	549

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Trolley	C. E. Powell	562,972	June 30	3379	813	75	2089
Trolley	E. D. Priest	567,411	Sept. 8	1209	289	76	1517
Trolley	J. H. Rabbitt	558,741	Apr. 21	2158	520	75	439
Trolley	H. A. Seymour	562,494	June 23	2492	604	75	1899
Trolley	N. D. Stanley and J. S. Reynolds	574,345	Dec. 29	4108	976	77	2117
Trolley	F. T. Walton	570,740	Nov. 3	598	137	77	748
Trolley adjusting and regulating device	C. F. Randall	573,535	Dec. 22	2592	615	77	1822
Trolley and switch. Electric-railway	L. L. Stimpson	554,350	Feb. 11	986	228 229	74	702
Trolley and trolley-support for electric cars	W. Grunow, Jr.	567,975	Sept. 22	2157	519 520	76	1725
Trolley-arms. Apparatus for operating	P. J. Dowling	562,591	June 23	2674	647	75	1933
Trolley attachment. Electric car	F. S. Smith	556,941	Mar. 24	2596	611	74	1664
Trolley attachment. Electric-car	R. Skeen	558,429	Apr. 14	1631	393	75	326
Trolley carrier and hanger	W. J. Sumner	564,949	July 28	2995	713	76	598
Trolley-catcher	C. F. Randall	569,352	Oct. 13	1102	261	77	227
Trolley-catcher	O. R. Sackett	567,690	Sept. 15	1668	401	76	1620
Trolley-catcher	C. F. Wilson	563,531	July 7	501	117	76	95
Trolley contact device	R. Skeen	567,754	Sept. 15	1779	427	76	1640
Trolley cut-out	T. Fletcher	553,061	Jan. 14	1043	254	74	209
Trolley device	H. A. Gray	562,523	June 23	2541	618	75	1908
Trolley. Electric	G. R. Mitchell	557,008	Mar. 24	2723	645 646	74	1688
Trolley. Electric	N. Muslar	553,927	Feb. 4	235	51	74	549
Trolley. Electric-car	J. L. Foster	559,275	Apr. 28	3147	761	75	642
Trolley. Electric-car	J. E. Hewes	567,474	Sept. 8	1304	316	76	1535
Trolley. Electric-car	W. H. Russell	564,395	July 21	2035	478	76	406
Trolley. Electric-car	S. F. Tufts	571,710	Nov. 17	2256	541	77	1099
Trolley. Electric-railway	R. N. Dyer	567,306	Sept. 8	1021	244 245	76	1483
Trolley. Electric-railway	R. N. Dyer	567,307	Sept. 8	1022	245	76	1484
Trolley. Electric-railway	M. T. Graf	562,132	June 16	1898	459	75	1772
Trolley. Electric-railway	H. D. Hinckley	571,120	Nov. 10	1269	294	77	902
Trolley. Electric-railway	P. O. Macevoy	571,092	Nov. 10	1210	283	77	892
Trolley. Electric-railway	P. F. O'Shaughnessy and O. T. Crosby	557,015	Mar. 24	2745	650 651	74	1692
Trolley. Electric-railway	H. A. Seymour	557,442	Mar. 31	3495	836	74	1855
Trolley. Electric-railway	H. A. Seymour	572,933	Dec. 8	1482	356	77	1562
Trolley. Electric-railway	W. M. Whiting	570,078	Oct. 27	2393	567	77	492
Trolley. Electric-railway-car	J. Van Hoogstrate	566,252	Aug. 18	2344	574	76	1096
Trolley-finder	H. H. Blanchard	563,998	July 14	1335	311	76	263
Trolley-finder	W. J. Donahue and W. B. Hausman	571,994	Nov. 24	2782	656	77	1218
Trolley-finder	H. Ogborn	564,638	July 28	2457	578	76	501
Trolley for electric-railway cars	H. P. Wellman	558,869	Apr. 21	2372	572 579	75	479
Trolley for electric railways	H. A. Seymour	569,889	Oct. 20	2049	488	77	413
Trolley-guard	J. H. Beazan	554,571	Feb. 11	1355	317	74	773
Trolley-guard	F. S. Birth	567,879	Sept. 15	1986	476	76	1681
Trolley-head	W. H. Carr	555,674	Mar. 3	332	76	74	1129
Trolley mechanism	J. M. Kennedy	557,827	Apr. 7	544	130	75	102
Trolley-pole and connection	C. H. Finson	555,571	Mar. 3	145	34, 35	74	1157
Trolley-pole for electric cars	S. H. Short	566,237	Aug. 18	2323	568	76	1091
Trolley-pole governor	V. T. Lynch	573,517	Dec. 22	2562	608	77	1817
Trolley-pole safety device	B. H. Bórreson	573,257	Dec. 15	2056	497	77	1707
Trolley-pole support	N. H. Davis	557,114	Mar. 31	2896	692	74	1746
Trolley-pole supports. Means for reversing	H. P. Wellman	558,668	Apr. 21	2370	570	75	478
Trolley-pulley. Ball-bearing	H. N. Gale	569,631	Oct. 20	1597	377	77	333
Trolley-stand	F. N. Kelsey	561,168	June 2	166	42	75	1398
Trolley-support	F. E. Homer	554,694	Feb. 18	1582	372	74	833
Trolley-support	E. B. W. Reichel	556,864	Mar. 24	2475	583	74	1642
Trolley-support. Electric-railway	S. H. Short	566,345	Aug. 25	2510	615	76	1143
Trolley-support for electric railways	S. H. Short	569,772	Oct. 20	1868	443	77	380
Trolley-support for trolley-cars	O. Holz	569,756	Oct. 20	1843	437	77	375
Trolley-switch	M. Rangey and P. Plante	561,128	June 2	86	24	75	1324
Trolley-switch. Automatic	L. M. Erb	571,517	Nov. 17	1930	460	77	1040
Trolley system. Electric-railway	W. C. Keithly	563,244	June 30	3848	922	75	2177
Trolley system for electric railways	C. E. Davis	568,523	Sept. 29	3159	760	76	1925
Trolley system. Underground	N. H. Anspach	553,635	Jan. 28	2055	486	74	428
Trolley system. Underground	J. Hoffman	565,985	Aug. 18	1915	464	76	1013
Trolley system. Underground	R. E. Sherman and D. E. Kenyon	565,240	Aug. 4	568	133	76	719
Trolley-track	L. Coburn	564,004	July 14	1349	314	76	266
Trolley-track and hanger	L. Coburn	564,868	July 28	2845	682	76	572
Trolley-track switch and bracket	W. J. Sumner	564,950	July 28	2996	713	76	599
Trolley. Underground	M. D. Law	555,959	Mar. 10	821	195	74	1303
Trolley. Underrunning	N. C. Bassett	569,738	Oct. 20	1801	427	77	369
Trolley-way	M. Dillenburgh	572,874	Dec. 8	1371	331	77	1560
Trolley-wheel	W. C. Cottrell	563,749	July 14	868	206	76	178
Trolley-wheel	J. B. Dailey	565,725	Aug. 11	1430	348	76	902
Trolley-wheel	M. C. Furstenau	566,161	Aug. 18	2205	537	76	1067
Trolley-wheel	J. McKenna	559,461	May 5	197	43	75	720
Trolley-wheel	I. B. Metzger	562,904	June 30	3240	783	75	2059
Trolley-wheel support	C. F. L. Orth	572,940	Dec. 8	1495	358	77	1585
Trolley-wheel switch	P. A. Williams	555,145	Feb. 25	2396	563	74	1000
Trolley-wheels. Yielding and self-adjusting support for	A. M. Brunswick and G. E. Johnson	564,955	July 28	3002	715	76	600
Trolley-wire and trolley therefor	H. R. Keithley	560,097	May 12	1390	313	75	958
Trolley-wire and trolley therefor	H. R. Keithley	560,098	May 12	1391	313	75	958
Trolley-wire and trolley-wheel	P. Cassidy	567,166	Sept. 8	785	188	76	1444
Trolley-wire clip	R. H. Beach	566,766	Mar. 24	2497	529	74	1646
Trolley-wire crossing	H. M. Handshy	567,133	Sept. 8	719	168	76	1430
Trolley-wire frog	M. F. Bean	563,546	July 7	524	121	76	99
Trolley-wire hanger	W. Cooper	566,376	Aug. 25	2580	630	76	1155

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Trolley-wire hanger.....	W. S. Kisinger.....	569,338	Oct. 13	1077	256	77	222
Trolley-wire hanger.....	W. A. McCallum.....	557,860	Apr. 7	596	141	75	112
Trolley-wire support.....	W. A. McCallum.....	568,452	Sept. 29	3005	723	76	1898
Trolley-wire support.....	L. McCarthy.....	565,174	Aug. 4	424	102	76	695
Trolley-wire suspending and supporting device.....	C. H. Fisk.....	564,984	Aug. 4	42	10	76	625
Trolley-wire switch.....	S. D. Cushman.....	562,356	June 16	2275	552	75	1842
Trolley-wires. Spring supporting-ear for.....	C. A. Lieb.....	553,858	Feb. 4	84	17	74	521
Trolling-hook.....	A. H. Smith.....	570,344	Oct. 27	2908	690	77	588
Trough:							
See Feed-trough. Sheet-metal trough.							
Hog-trough. Watering-trough.							
Trough floor. Metallic.....	M. F. X. Foley.....	568,436	Sept. 29	2980	716	76	1393
Trousers.....	E. Brückner.....	560,683	May 26	2486	570	75	1224
Trousers.....	L. S. Shaner.....	555,587	Mar. 3	174	40, 41	74	1162
Trousers. Bicycle.....	M. A. ron.....	573,173	Dec. 15	1908	458	77	1680
Trousers-creaser.....	E. J. Boyd.....	562,276	June 16	2129	517	75	1814
Trousers-guard.....	M. E. Blood.....	558,146	Apr. 14	1133	276	75	332
Trousers-guard for bicycle-riders.....	R. S. Bowman.....	562,274	June 16	2127	516	75	1814
Trousers-leg folding device.....	Y. E. Holloway.....	573,784	Dec. 22	3038	720	77	1908
Trousers-presser and stretcher.....	R. B. Colley.....	571,991	Nov. 24	2774	654	77	1217
Trousers-protector. Bicycle.....	J. E. Newton.....	562,150	June 16	1925	468	75	1776
Trousers-stretcher.....	W. T. Brown.....	561,863	June 9	1436	346	75	1666
Trousers-stretcher.....	C. Burnham.....	572,155	Dec. 1	111	26	77	1299
Trousers-stretcher.....	H. C. Hatch.....	569,021	Oct. 6	528	121	77	100
Trousers-stretcher.....	H. Keane and M. Guider.....	565,544	Aug. 11	1097	265	76	840
Trousers-stretcher.....	W. J. McCoy.....	561,806	June 9	1334	319	75	1647
Trousers-stretcher.....	F. G. Petersen.....	566,221	Aug. 18	2300	563	76	1087
Trousers-supporter.....	H. Shrier.....	552,785	Jan. 7	528	129	74	99
Trousers-waistband.....	S. Katz.....	562,615	June 23	2714	657	75	1940
Trousers-waistband.....	S. Katz.....	562,616	June 23	2715	657	75	1941
Trousers-waistband.....	S. Katz.....	562,617	June 23	2716	658	75	1941
Trousers-waistband.....	J. Rosenberg.....	569,840	Oct. 20	1975	470	77	400
Trousers-waistband.....	J. Schwarz.....	554,035	Feb. 4	427	94	74	583
Truck.....	D. L. Barnes.....	567,444	Sept. 8	1260	305	76	1527
Truck.....	W. Case.....	565,406	Aug. 4	822	194	76	769
Truck.....	V. Chartener.....	572,104	Dec. 1	15	4	77	1281
Truck.....	W. P. Henszey.....	557,472	Sept. 8	1302	315	76	1535
Truck.....	C. S. Percy.....	555,532	Mar. 3	80	18	74	1145
Truck.....	W. Richman.....	553,661	Jan. 28	2104	498	74	436
Truck.....	J. A. Tackaberry.....	569,072	Oct. 6	611	139	77	117
Truck.....	H. O. Thomas. (Reissue).....	11,530	Apr. 7	921	229 240	75	173
Truck and brake. Car.....	H. C. Williamson.....	567,428	Sept. 8	1232	296	76	1521
Truck and its gear. Car.....	E. Peckham.....	555,526	Mar. 3	67	15	74	1143
Truck. Baggage.....	W. D. Over.....	554,196	Feb. 4	713	162	74	636
Truck. Barrel.....	W. A. Hull.....	565,989	Aug. 18	1929	467	76	1016
Truck. Barrel.....	C. P. Johnson.....	564,284	July 21	1850	433	76	372
Truck bearing. Car.....	W. J. O'Byrne.....	564,532	July 21	2255	529	76	446
Truck-bolster.....	W. H. Marshall.....	565,481	Aug. 11	960	229	76	816
Truck brake connection.....	M. G. Hubbard, Jr.....	572,992	Dec. 15	1592	381	77	1620
Truck. Car.....	W. S. Adams.....	566,118	Aug. 18	2136	520	76	1054
Truck. Car.....	W. S. Adams.....	568,079	Sept. 22	2367	572	76	1762
Truck. Car.....	W. S. G. Baker.....	553,297	Jan. 21	1479	355	74	305
Truck. Car.....	W. S. G. Baker.....	553,298	Jan. 21	1479	355 356	74	305
Truck. Car.....	J. C. Barber.....	565,421	Aug. 11	851	200 201	76	794
Truck. Car.....	J. C. Barber.....	569,077	Oct. 6	619	141	77	119
Truck. Car.....	J. C. Barber.....	571,914	Nov. 24	2649	627 628	77	1192
Truck. Car.....	J. C. Barber.....	573,636	Dec. 22	2794	661	77	1863
Truck. Car.....	W. H. Boynton.....	562,212	June 16	2029	490	75	1797
Truck. Car.....	J. A. Brill.....	554,233	Feb. 11	779	178 179	74	663
Truck. Car.....	J. A. Brill.....	571,824	Nov. 24	2471	586 587	77	1159
Truck. Car.....	C. E. Canfield.....	562,884	June 30	3207	776	75	2052
Truck. Car.....	E. Cliff.....	553,104	Jan. 14	1134	275	74	227
Truck. Car.....	E. Cliff.....	560,779	May 26	2654	609 610	75	1256
Truck. Car.....	E. Cliff.....	562,579	June 23	2654	642	75	1929
Truck. Car.....	E. Cliff.....	564,363	July 21	1982	465 466	76	395
Truck. Car.....	T. Crawford.....	571,263	Nov. 10	1500	353 354	77	946
Truck. Car.....	E. A. Curtis.....	560,155	May 12	1484	335 336	75	976
Truck. Car.....	T. C. Du Pont.....	567,864	Sept. 15	1966	471	76	1677
Truck. Car.....	J. H. Graham.....	570,473	Nov. 3	60	14	77	649
Truck. Car.....	H. Haupt.....	570,798	Nov. 3	689	158	77	765
Truck. Car.....	H. H. Hewitt.....	571,524	Nov. 17	1941	463 464	77	1042
Truck. Car.....	F. H. Kindl.....	559,292	Apr. 28	3175	767	75	647
Truck. Car.....	F. H. Kindl.....	570,286	Oct. 27	2706	658	77	563
Truck. Car.....	C. W. King.....	553,346	Jan. 21	1562	373	74	320
Truck. Car.....	G. W. Lacy.....	563,187	June 30	3755	899	75	2161
Truck. Car.....	G. W. Lacy.....	563,188	June 30	3759	899	75	2162
Truck. Car.....	F. L. Lamkey.....	554,277	Feb. 11	864	199	74	679
Truck. Car.....	F. L. Lamkey.....	554,278	Feb. 11	865	199	74	680
Truck. Car.....	F. L. Lamkey.....	563,285	July 7	86	22	76	18
Truck. Car.....	G. W. Mansfield and I. F. Baker.....	566,202	Aug. 18	2270	554 555	76	1081

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Truck. Car.....	W. A. McGuire and M. G. Hubbard, Jr.	566,526	Aug. 25	2869	697	76	1210
Truck. Car.....	E. Peckham	555,530	Mar. 3	76	17	74	1144
Truck. Car.....	E. Peckham	563,685	July 7	754	178 179	76	142
Truck. Car.....	W. Robinson	572,686	Dec. 8	1050	255	77	1498
Truck. Car.....	H. Tesseymann	564,904	July 28	2892	693	76	580
Truck. Car.....	J. C. Wands	554,469	Feb. 11	1197	279	74	743
Truck. Car.....	J. C. Wands	561,459	June 2	711	175	75	1504
Truck. Car.....	J. C. Wands	562,262	June 16	2105	510 511	75	1810
Truck center plate. Car.....	C. Hackney	557,069	Mar. 24	2820	671	74	1709
Truck corner-iron.....	E. Dietz	564,740	July 28	2626	96	76	532
Truck. Drier.....	W. A. Leary	570,644	Nov. 3	417	98	77	715
Truck. Electric-car.....	C. F. Baker	557,535	Apr. 7	5	2	75	3
Truck. Electric-car.....	E. Lundqvist	556,893	Mar. 24	2526	595	74	1651
Truck. Electric-car.....	J. Taylor	561,530	June 2	244	203	75	1529
Truck. Electric-locomotive.....	W. P. Henszey	562,607	June 23	2705	654 655	75	1939
Truck. Electric-motor.....	N. C. Bassett	568,891	Oct. 6	302	69	77	58
Truck. Electric-motor railway.....	J. A. and G. M. Brill	571,825	Nov. 24	2475	587	77	1160
Truck. Elevating.....	D. Fergessen	561,161	June 2	152	40	75	1395
Truck-end casting.....	T. Eubank	569,964	Oct. 20	2189	519 520	77	439
Truck equalizer. Car.....	J. H. Housman	570,875	Nov. 3	830	193	77	794
Truck for cars. &c.....	J. W. Cloud	560,258	May 19	1690	385	75	1064
Truck for rolling-stock. Bogie.....	J. J. Adler	566,119	Aug. 18	2138	520 521	76	1055
Truck-frame. Built-up pressed-steel.....	C. T. Schoen	553,431	Jan. 21	1699	405	74	345
Truck frame. Car.....	E. Cliff	567,579	Sept. 15	1488	356 357	76	1584
Truck-frame for railway-cars. Pressed-steel.....	C. T. Schoen	571,934	Nov. 24	2683	635	77	1200
Truck-frame. Metallic.....	C. T. Schoen	563,072	June 30	3563	855 856	75	2124
Truck. Freight-car.....	E. Cliff	553,103	Jan. 14	1131	275	74	226
Truck. Freight-car.....	E. Cliff	555,563	Mar. 3	133	31	74	1155
Truck. Freight-car.....	E. Cliff	560,700	May 26	2657	610	75	1256
Truck gearing. Motor.....	C. H. Johnson	566,400	Aug. 25	2627	641	76	1164
Truck. Hand.....	E. O'Neill	552,696	Jan. 7	345	91	74	67
Truck. Hand.....	J. Pleukharp	555,584	Mar. 3	168	39	74	1161
Truck. Hand.....	H. O. Thomas	571,705	Nov. 17	2246	540	77	1098
Truck. Hand.....	H. York and G. E. Slaughter	560,457	May 19	2050	467	75	1127
Truck. Lumber.....	A. T. Bemis	569,992	Oct. 27	2241	532	77	462
Truck. Lumber.....	V. L. Emerson	569,962	Oct. 20	2186	519	77	439
Truck. Lumber.....	V. Hodell and A. Olson	573,269	Dec. 15	2076	498	77	1710
Truck. Metallic-car.....	J. S. Hardie	569,044	Oct. 6	564	130	77	107
Truck. Mining-machine.....	H. B. Dierdorff. (Reissue)	11,540	May 26	3152	728	75	1351
Truck. Motor.....	L. Warfield	553,022	Jan. 14	976	236	74	196
Truck. Motor-car.....	P. W. Leffler	573,823	Dec. 22	3119	742 743	77	1923
Truck pedestal. Car.....	J. A. Markley	552,768	Jan. 7	486	120	74	92
Truck. Pivotal car.....	W. A. McGuire and M. G. Hubbard, Jr.	573,029	Dec. 15	1648	396	77	1631
Truck-platform for handling heavy articles.....	E. H. Turner	559,552	May 5	349	84	75	751
Truck. Radial car.....	J. H. Graham	556,857	Mar. 3	618	148	74	1243
Truck. Radial car.....	W. Robinson	554,956	Feb. 18	2032	481 482	74	918
Truck. Railway-car.....	L. W. Kallam	553,068	Jan. 14	1063	259	74	213
Truck. Railway-car.....	W. Pennock	574,074	Dec. 29	3582	856	77	2022
Truck. Railway-car.....	E. N. Richards	571,932	Nov. 24	2680	634 635	77	1200
Truck side frame. Car.....	H. H. Hewitt	571,522	Nov. 17	1938	462 463	77	1042
Truck side frame. Car.....	H. H. Hewitt	571,523	Nov. 17	1940	463	77	1042
Truck side frames. Making-car.....	H. H. Hewitt	571,525	Nov. 17	1943	464	77	1043
Truck. Sleigh.....	S. C. Nutter	569,050	Oct. 6	577	132	77	110
Truck spring-hanger. Locomotive.....	C. Lindstrom	556,399	Apr. 14	1560	380	75	311
Truck. Stair and floor.....	F. E. Breed	554,359	Feb. 11	1002	231 232	74	706
Truck. Stove.....	L. O. Wiswell	554,386	Feb. 11	1042	242	74	713
Truck. Street-car.....	T. H. Lovejoy	571,091	Nov. 10	1208	283	77	891
Truck. Street-car.....	S. R. Skov	553,268	Jan. 21	1417	344	74	295
Truck. Warehouse.....	M. J. Cunningham	572,411	Dec. 1	584	139	77	1389
Truck. Weighing.....	J. N. Brown	569,997	Oct. 27	2246	533	77	463
Truck. Yarn-beam.....	W. E. Sharples	567,417	Sept. 8	1217	291	76	1519
Trucks. Journal and journal-box for railway.....	A. D. Abbenzeller and H. S. Faunce	567,673	Sept. 15	1640	396	76	1614
Trucks. Power-gearing for.....	E. A. Sperry	567,418	Sept. 8	1218	291 292	76	1519
Trucks. Power-transmitting gearing for electric-railway.....	E. A. Sperry	565,938	Aug. 18	1820	442	76	995
Trunk.....	G. Crouch	571,152	Nov. 10	1324	308	77	913
Trunk.....	P. Giraud	560,062	May 12	1317	295	75	944
Trunk.....	F. J. Palica	572,714	Dec. 8	1107	268 269	77	1508
Trunk.....	F. J. Pavak	562,652	June 23	2769	672 673	75	1950
Trunk.....	C. R. Starr	568,927	Oct. 6	355	82	77	68
Trunk and dressing-case. Combined.....	E. Witteborg	566,262	Aug. 18	2358	578	76	1098
Trunk and hinge therefor.....	F. Keifel	574,095	Dec. 29	3627	866	77	2030
Trunk attachment.....	R. L. Cohen	562,759	June 23	2961	717	75	1988
Trunk-cabinet.....	M. C. Cavanaugh and J. M. Lüsberg	563,841	July 14	1046	246	76	211
Trunk. Convertible.....	A. W. Newell	571,681	Nov. 17	2202	530	77	1069
Trunk. Dresser.....	P. H. Smith	563,624	July 7	652	152	76	123

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Trunk-fastening	J. Deritis	566,148	Aug. 18	2186	531	76	1064
Trunk-lock	E. T. Shelley	556,906	Mar. 24	2547	600	74	1655
Trunk. Telescopic	F. J. Palica	554,298	Feb. 11	900	208	74	687
Trunk-tray. Adjustable	N. L. Baker	556,526	Mar. 17	1917	446	74	1520
Truss	J. U. Adams	568,324	Sept. 29	2791	671	76	1859
Truss	F. R. Bell	565,592	Aug. 11	1189	286	76	855
Truss	J. Brickner and A. S. Herr	566,738	Sept. 1	12	3	76	1283
Truss	C. Cluthe	563,449	July 7	361	83	76	70
Truss	C. Colves	556,620	Mar. 17	2061	482	74	1546
Truss	P. Fredin	571,969	Nov. 24	2736	646	77	1210
Truss	A. Hessels	567,568	Sept. 8	1455	349	76	1563
Truss	J. P. Lander	554,825	Feb. 18	1808	424	74	877
Truss	R. I. Pearson	566,530	Aug. 25	2873	699	76	1211
Truss	J. W. Pfeiffer	567,997	Sept. 22	2209	532	76	1734
Truss	C. M. Richmond	566,700	Aug. 25	3125	764	76	1258
Truss	J. D. Rowley	569,236	Oct. 13	900	216	77	188
Trusses. Metallic block for roof or other	L. Duvinage	553,903	Feb. 4	182	38	74	539
Tub: See Bath-tub. Washtub. Coaling-tub.							
Tub-support, clothes-horse, and ironing-board. Combined	E. L. Bergstresser	573,756	Dec. 22	3000	711	77	1901
Tube: See Boiler-tube. Metal tube. Collapsible tube. Pneumatic tube. Compound tube. Pneumatic-despatch tube. Conduit-tube. Sheet-metal tube. Double-shell tube. Smoking-tube. Duplex tube. Speaking-tube.							
Tube	A. Kirschbaum	573,602	Dec. 22	2713	644	77	1847
Tube	M. Svagrovsky	566,243	Aug. 18	2331	571	76	1093
Tube and making	E. L. Zalinski	556,126	Mar. 10	1143	269	74	1361
Tube-bending machine	L. H. Brinkman	559,839	May 12	892	199	75	864
Tube-cleaner	F. Haight	572,359	Dec. 1	482	113	77	1370
Tube-cleaning device	H. W. Forslund and A. P. Rumely	558,553	Apr. 21	1827	445	75	379
Tube-cutter	A. Kranzer	560,099	May 12	1392	313	75	959
Tube-drawing apparatus	C. D. Rice	565,726	Aug. 11	1431	349	76	902
Tube-drawing device	C. G. Larson	561,327	June 2	463	115	75	1459
Tube-expander	C. D. Mosher	559,189	Apr. 23	2978	719	75	611
Tube-machine	F. L. Baker	557,636	Apr. 7	195	49, 50	75	38
Tube-machine. Metal	G. W. Peters	563,797	July 14	956	227	76	196
Tube or pipe cleaner	A. Jackson	572,994	Dec. 15	1594	382	77	1620
Tube-plate-hole cutter	T. W. Felton	558,583	Apr. 21	1886	457	75	389
Tube punctures. Device for closing	W. B. Merritt	570,941	Nov. 10	950	220	77	844
Tube punctures. Device for closing	W. B. Merritt	570,942	Nov. 10	951	221	77	844
Tube-rolls. Automatic feed mechanism for step-by-step	M. and R. Mannesmann	556,013	Mar. 10	926	220 221 163 164 165	74	1322
Tubes. Apparatus for manufacturing metal	B. Price	570,816	Nov. 3	717	164 165	77	771
Tubes. Apparatus for removing mandrels from metal	R. Wootton and L. W. Goold	562,778	June 23	2993	724	75	1994
Tubes, hollow articles, &c. Machine for forming	J. C. Stevens	553,573	Jan. 28	1954	461 462 885 886	74	410
Tubes. Machine for making compressible	H. Goodwin	574,147	Dec. 29	3715	885 886	77	2046
Tubes. Machine for making seamless tapered	J. Findlay	557,791	Apr. 7	484	115	75	92
Tubes. Making metal	P. Swanger	572,523	Dec. 8	869	209	77	1463
Tubes with fibrous material. Lining metal	E. T. Greenfield	570,165	Oct. 27	2542	604 605	77	520
Tubing	M. M. Nicholls	568,870	Oct. 6	273	63	77	53
Tubing and casing elevator	W. H. Hay	553,711	Jan. 28	2185	518	74	451
Tubing. Apparatus for tipping gas	C. D. Frees	572,419	Dec. 1	595	141	77	1391
Tubing. Compound reinforced	G. T. Warwick	569,261	Oct. 13	939	225	77	195
Tubing. Manufacture of seamless	H. H. Jack	562,728	June 23	2909	706	75	1977
Tubing. Thread-protector for	J. W. Abrahams	556,127	Mar. 10	1144	269	74	1361
Tubular bodies. Process of and apparatus for electrolytically forming	I. Klein	555,452	Feb. 25	2946	700 701	74	1103
Tubular fabric. Endless	G. C. Moore	570,137	Oct. 27	2491	590	77	510
Tubular fabric. Endless	H. N. Wayne	552,940	Jan. 14	850	206	74	173
Tubular fabric. Woven	O. Frowein and W. Oberstebrink	570,012	Oct. 27	2269	539	77	467
Tufted articles. Apparatus for making	W. M. Jamison and F. Tuttle	572,759	Dec. 8	1189	286	77	1523
Tufts. Machine for making	J. Schuchat and D. G. Butts	570,685	Nov. 3	496	116 117	77	731
Tug	E. C. Garden	561,387	June 2	574	143	75	1480
Tug clip. Hame	C. W. Weigle	563,631	July 7	665	156	76	125
Tug fastener. Hame	J. S. Gillman	563,159	June 30	3705	886	75	2151
Tug fastener or attachment	G. Davidson	568,083	Sept. 22	2386	575	76	1766
Tug. Harness	A. J. Krantz	560,724	May 26	2550	566	75	1236
Tug-holder	S. B. Lucas	573,889	Dec. 29	3242	772	77	1960
Tug. Shaft	L. B. Allen	568,080	Sept. 22	2369	573	76	1762
Tug. Shaft	J. P. Crews	555,484	Feb. 25	3005	716	74	1114
Tug. Shaft	A. D. Goetz	561,049	May 26	3112	717	75	1343
Tug. Thill	W. R. Chapin	570,904	Nov. 10	883	206	77	831
Tug. Thill	A. W. Cook	562,066	June 16	1795	434	75	1752
Tug. Thill	W. W. Gleckner	560,206	May 19	1583	358	75	1046
Tug. Thill	A. L. Lindsay	572,552	Dec. 8	808	194	77	1447
Tuning-key	D. Fidler	554,254	Feb. 11	822	187	74	672
Tuning-peg	W. and W. A. Lang	566,776	Sept. 1	71	18	76	1293
Tunnel	A. J. Moxham	558,094	Apr. 14	1057	258 259	75	217
Tunnel. Metallic	J. and W. R. Thomas	558,436	Apr. 14	1638	394	75	327

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Tunnels, &c., free from rubbish produced by blasting. Method of and apparatus for keeping	A. Brandt	557,958	Apr. 7	771	184	75	145
Tunneling-machine	J. L. Mitchell	565,494	Aug. 11	1014	{ 245 246 }	76	824
Tunneling-machine. Electric	H. R. Keithley	563,491	July 7	434	101	76	83
Turbine	W. H. Elmer	565,848	Aug. 11	1634	400	76	940
Turbine	E. G. Libby	563,194	June 30	3768	902	75	2163
Turbine	H. Trenta	572,667	Dec. 8	1016	246	77	1492
Turbine. Elastic-fluid	C. G. Curtis	566,967	Sept. 1	401	{ 93, 94 94 95 96 }	76	1359
Turbine. Elastic-fluid	C. G. Curtis	566,968	Sept. 1	406	{ 97, 98 98 99 100 }	76	1360
Turbine. Elastic-fluid	C. G. Curtis	566,969	Sept. 1	415	101	76	1361
Turbine motor	C. A. Parsons	553,658	Jan. 28	2102	497	74	435
Turbine. Steam	R. Hewson	570,756	Nov. 3	622	143	77	752
Turbine. Steam	H. A. House	571,861	Nov. 24	2541	602	77	1173
Turbine. Steam	C. A. Parsons	553,659	Jan. 28	2102	497	74	435
Turbine. Steam	C. A. Parsons	553,932	Feb. 4	243	52	74	550
Turbine wheels. Making	J. B. McCormick, Jr.	554,292	Feb. 11	887	204	74	684
Turbines. Automatic speed-regulator for steam	J. L. Jönsson	554,425	Feb. 11	1118	262	74	728
Turbing implement	J. H. Morse and W. R. Parsons	556,019	Mar. 10	935	223	74	1324
Turkish bath. Portable	J. M. Murphy	554,527	Feb. 11	1286	301	74	759
Turning bicycle mud-guards, rims, &c. Machine for	R. A. Gibson	554,925	Feb. 18	1983	469	74	909
Turning machine. Form-	E. J. McClellan	552,717	Jan. 7	379	99	74	73
Turning machine. Taper-	A. Peterreit	567,549	Sept. 8	1422	342	76	1556
Turning machine. Wood-	G. H. Hardman	563,034	June 30	3474	835	75	2108
Turning wood moldings. Rotary cutter for	G. E. Mertz	561,721	June 9	1188	282	75	1620
Turnstile	R. C. Contardo	552,893	Jan. 14	751	183	74	155
Turnstile	A. Gajardo	562,293	June 16	2159	525	75	1821
Turnstile	O. H. Williams	560,386	May 19	1916	{ 436 437 }	75	1104
Turn-table	W. B. Doddridge	561,974	June 16	1620	{ 394 395 }	75	1721
Turn-table	C. A. Greenleaf	563,480	July 7	417	97	76	80
Turpentine-box	G. I. Smith	555,268	Feb. 25	2608	611	74	1040
Turpentine-hack	E. Blount	554,210	Feb. 4	738	168	74	641
Turret	R. B. Dashiell	553,056	Jan. 14	1036	252	74	208
Turret	R. B. Dashiell. (Reissue)	11,531	Apr. 14	1628	406	75	336
Turret. Revolving gun-	J. A. Deport	565,610	Aug. 11	1218	{ 293 294 }	76	861
Turrets, &c. Support for rotary	J. A. Deport	565,608	Aug. 11	1214	292	76	860
Tweezers	E. N. Parker	561,176	June 2	190	47	75	1403
Tweezers. Diamond-	L. A. Piaget	573,036	Dec. 15	1665	399	77	1635
Twine and yarn. Machine for manufacturing	T. Finigan	564,275	July 21	1832	429	76	369
Twine-holder	G. W. Fields and V. A. Boynton	574,317	Dec. 29	4056	963	77	2108
Twine-holder	W. H. Tivy and J. E. Hill	558,437	Apr. 14	1639	394	75	327
Twine-holder and cutter	A. Heck	554,688	Feb. 18	1575	371	74	831
Twine-holder for binding corn, grain, &c.	W. Z. Harmon	565,167	Aug. 4	408	98	76	692
Twine-lock	W. W. Martin	566,272	Aug. 18	2372	581	76	1100
Twine-machines. Stop-motion and testing mechanism for	G. H. Ellis	567,127	Sept. 8	702	{ 163 164 }	76	1426
Twine or cord making machine	G. Florence	572,479	Dec. 1	681	163	77	1409
Twist-drill	W. F. Beardshaw	554,642	Feb. 18	1499	351	74	816
Twisting-machine	L. Briggs	559,565	May 5	370	89	75	754
Twisting-machine	G. L. Brownell	560,680	May 26	2477	{ 568 569 }	75	1222
Twisting-machine	G. L. Brownell	565,957	Aug. 18	1852	450	76	1000
Twisting-machine. Fringe-	W. Gledhill	567,590	Sept. 15	1505	{ 360 361 362 }	76	1587
Twisting-tube for twisting fibrous material into threads.	J. W. and J. G. Bedale	552,657	Jan. 7	275	74	74	53
Typan-gage	B. McGinty	573,345	Dec. 15	2229	533	77	1737
Type and means for justifying same	W. S. Scudder	565,514	Aug. 11	1053	253	76	831
Type-bars for writing-machines. Apparatus for making aligned	J. M. Fairfield	553,521	Jan. 28	1860	{ 440 441 442 }	74	393
Type-binder	J. Seide	571,625	Nov. 17	2110	506	77	1072
Type-case cabinet	C. Stolzer	565,703	Aug. 11	1382	336	76	894
Type-casting device	W. Berri	558,145	Apr. 14	1132	276	75	232
Type-casting machine	G. H. Ziegler	553,575	Jan. 28	1962	464	74	411
Type-casting pump	J. West	554,405	Feb. 11	1072	251	74	719
Type-casting pump	J. West	554,406	Feb. 11	1073	251	74	719
Type-containing channel	L. K. Johnson and A. A. Low	562,079	June 16	1815	439	75	1756
Type-containing channel	L. K. Johnson and A. A. Low	562,080	June 16	1817	{ 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	75	1756
Type-distributor	A. Dow	572,050	Nov. 24	2870	{ 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	77	1235
Type-distributing machine	C. D. Hughes	572,705	Dec. 8	1088	264	77	1505
Type-distributing machine	R. J. Moxley	567,252	Sept. 8	898	{ 215 216 217 }	76	1462
Type-justifying machine	C. F. Hilder	559,707	May 5	598	142	75	796
Type-justifying mechanism	P. T. Dodge	565,439	Aug. 11	878	208	76	799
Type-justifying mechanism	C. F. Hilder	565,749	Aug. 11	1471	{ 359 360 }	76	909
Type-justifying mechanism	O. Mergenthaler	565,483	Aug. 11	964	230	76	816
Type-justifying mechanism	O. Mergenthaler	565,489	Aug. 11	994	{ 239 240 }	76	821
Type-line justifier	G. W. Sherer	555,907	Mar. 3	713	172	74	1262

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Type. Machine for making justified lines of	T. Lanston	557,994	Apr. 7	831	197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	75	156
Type-making machine	A. T. Brown	572,673	Dec. 8	1023	248 249	77	1493
Type. Manufacturing stencil	F. D. Belknap	573,851	Dec. 29	3163	754	77	1947
Type-matrix	W. Kemp, Jr.	569,876	Oct. 20	2030	484	77	410
Type. Means for justifying	B. L. Fairchild	572,974	Dec. 15	1566	376	77	1615
Type-mold	I. Baas, Jr.	565,661	Aug. 11	1311	316 317	76	879
Type. Mold for casting lines of	A. H. Alexander	562,751	June 23	2947	714	75	1985
Type-molding machine	F. Wicks	565,820	Aug. 11	1587	388	76	931
Type-preparing machine	V. J. A. Rey	561,063	May 26	3134	724	75	1347
Type, printing-bars, &c. Knife for trimming	C. Holliwell	560,000	May 12	1196	265	75	923
Type setting and distributing machine	E. J. Andrews	567,212	Sept. 8	834	198	76	1451
Type-setting apparatus	L. K. Johnson and A. A. Low	561,993	June 16	1653	403 404 440	75	1727
Type-setting apparatus	L. K. Johnson and A. A. Low	562,081	June 16	1818	441	75	1756
Type-setting apparatus	L. K. Johnson and A. A. Low	562,083	June 16	1822	442	75	1757
Type-setting appliance	L. K. Johnson and A. A. Low	569,337	Oct. 13	1075	255 256	77	222
Type-setting appliance	L. K. Johnson and A. A. Low	570,098	Oct. 27	2429	576 577	77	499
Type-setting case	L. K. Johnson and A. A. Low	562,082	June 16	1821	441	75	1756
Type-setting machine	S. H. and P. E. Hodgkin	564,076	July 14	1484	347	76	291
Type-setting machine. Electric	J. Sachs	567,256	Sept. 8	912	218	76	1464
Type-setting machine. Simultaneous	V. Calendoli	552,745	Jan. 7	439	110 111 112	74	84
Type-setting machines. Space-bar for	W. Berri	557,540	Apr. 7	15	4	75	5
Type setting or composing machine	S. H. and P. E. Hodgkin	564,075	July 14	1483	347	76	290
Type. Surface treatment of movable	J. W. Osborne	553,312	Jan. 21	1502		74	309
Type-transferring apparatus	L. K. Johnson and A. A. Low	562,078	June 16	1814	438	75	1755
Type-writer	L. K. Coe	570,453	Nov. 3	21	5	77	642
Type-writer	B. Granville	570,433	Oct. 27	3075	730 731 74	77	619
Type-writer and telegraphic transmitter. Combined	C. E. Yetman	565,128	Aug. 4	310	75 76	76	674
Type-writer attachment	J. B. Baker	566,229	Aug. 25	2404	590	76	1123
Type-writer cabinet	J. H. Heyward	558,388	Apr. 14	1547	377 378	75	309
Type-writer cabinet	W. Horrocks	563,663	July 7	713	168	76	134
Type-writer cabinet	W. Horrocks	571,765	Nov. 24	2374	567	77	1141
Type-writer cabinet	D. D. Walton, J. Barker, and H. Van Dyke	569,259	Oct. 13	937	224	77	194
Type-writer carriage	A. W. Steiger	557,912	Apr. 7	681	162 163 161	75	129
Type-writer carriage-shift	A. W. Steiger	557,910	Apr. 7	677	162	75	128
Type-writer desk	F. Field	569,914	Oct. 20	2096	499	77	422
Type-writer desk	J. T. Strahan	556,707	Mar. 17	2182	510	74	1570
Type-writer desk	H. Tyler and J. F. Ohmer	559,421	May 5	135	29	75	707
Type-writer holder. Drop-leaf	J. B. Elliott and R. J. Mawhinney	558,790	Apr. 21	2244	542	75	454
Type-writer letter-spacing mechanism	A. W. Steiger	557,911	Apr. 7	679	162	75	129
Type-writer line-number and position attachment	C. W. Atwood	569,909	Oct. 20	2085	496	77	421
Type-writer practice-keyboard	J. S. Rhodes	565,179	Aug. 4	431	103	76	696
Type-writer word-register	C. O. Blandin	557,474	Mar. 31	3547	848	74	1865
Type-writer's chair	H. L. Andrews	552,502	Jan. 7	1	1	74	3
Type-writing machine	N. L. Anderson	554,567	Feb. 11	1345	315 316 107 108 109 110	74	771
Type-writing machine	H. L. Arnold	572,350	Dec. 1	458	108 109 110	77	1365
Type-writing machine	A. E. Ayer	555,917	Mar. 10	734	178	77	1287
Type-writing machine	L. Bailey	569,737	Oct. 20	1799	427	77	369
Type-writing machine	W. J. Barron	557,755	Apr. 7	424	99	75	80
Type-writing machine	W. J. Barron	559,071	Apr. 28	2727	663 664	75	563
Type-writing machine	W. J. Barron	565,716	Aug. 11	1405	343 344	76	897
Type-writing machine	W. M. Blackstock and J. Conley	567,937	Sept. 15	2080	501 502	76	1698

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Type-writing machine	W. H. Briggs	554,232	Feb. 11	768	175 176 177 178	74	662
Type-writing machine	B. A. Brooks	572,289	Dec. 1	355	85	77	1347
Type-writing machine	T. Cahill	566,442	Aug. 25	2712	661 662 663 664 665	76	1181
Type-writing machine	J. D. Daugherty	553,153	Jan. 14	1202	293 294	74	241
Type-writing machine	J. D. Daugherty	556,460	Mar. 17	1787	414 415	74	1497
Type-writing machine	A. Davidson	558,484	Apr. 21	1725	416 417	75	359
Type-writing machine	G. H. Davis	560,572	May 19	2228	509 510	75	1159
Type-writing machine	G. H. Davis	560,573	May 19	2231	510	75	1160
Type-writing machine	P. Deming	553,842	Feb. 4	54	11	74	515
Type-writing machine	P. Deming	554,659	Feb. 18	1528	361	74	821
Type-writing machine	A. B. Dick	554,660	Feb. 18	1529	361	74	821
Type-writing machine	A. B. Dick	558,582	Apr. 21	1885	457	75	389
Type-writing machine	G. C. Elliott	573,081	Dec. 15	1754	421	77	1651
Type-writing machine	C. S. Ellis	559,125	Apr. 28	2827	685	75	586
Type-writing machine	C. S. Ellis	559,126	Apr. 28	2834	685 686 686	75	586
Type-writing machine	C. S. Ellis	559,127	Apr. 28	2841	687 688 689	75	587
Type-writing machine	C. S. Ellis	559,128	Apr. 28	2856	690 691	75	589
Type-writing machine	C. S. Ellis	559,325	Apr. 28	3231	781 782	75	658
Type-writing machine	C. S. Ellis	559,326	Apr. 28	3235	782 783	75	659
Type-writing machine	S. A. Ellis	556,812	Mar. 24	2386	561	74	1625
Type-writing machine	J. M. Fairfield	553,519	Jan. 28	1849	439 440	74	390
Type-writing machine	J. M. Fairfield	565,728	Aug. 11	1436	350	76	903
Type-writing machine	J. M. Fairfield	566,302	Aug. 25	2428	595 596	76	1127
Type-writing machine	W. C. Farnum	570,158	Oct. 27	2529	600	77	517
Type-writing machine	W. C. Farnum	570,159	Oct. 27	2531	600 601	77	518
Type-writing machine	W. C. Farnum	571,757	Nov. 24	2360	564	77	1138
Type-writing machine	J. Felbel	574,144	Dec. 29	3712	885	77	2045
Type-writing machine	R. J. Fisher	569,491	Oct. 13	1322	311 371 372 373	77	266
Type-writing machine	R. J. Fisher	569,625	Oct. 20	1578	371 372 373	77	329
Type-writing machine	R. J. Fisher	569,626	Oct. 20	1583	373 374	77	330
Type-writing machine	R. J. Fisher	569,627	Oct. 20	1587	374 375	77	331
Type-writing machine	R. J. Fisher	572,535	Dec. 8	780	186 187	77	1441
Type-writing machine	R. J. Fisher	573,868	Dec. 29	3200	762 763	77	1952
Type-writing machine	E. Fitch	570,389	Oct. 27	2990	707 708	77	603
Type-writing machine	A. Fosgate	568,301	Sept. 22	2748	660 661	76	1836
Type-writing machine	W. Fredrick	570,546	Nov. 3	202	53, 54	77	675
Type-writing machine	W. Fredrick and H. W. Wachter	570,545	Nov. 3	198	52, 53	77	674
Type-writing machine	J. H. Freeman, Jr.	558,795	Apr. 21	2251	544	75	456
Type-writing machine	F. P. Gorin	559,449	May 5	178	39	75	716
Type-writing machine	B. Granville	555,443	Feb. 25	2932	696	74	1100
Type-writing machine	B. Granville	570,432	Oct. 27	3073	729 730	77	618
Type-writing machine	G. W. Hall	564,749	July 28	2646	629 630	76	535
Type-writing machine	A. E. Harnsberger and E. Wright	573,654	Dec. 22	2836	669 670	77	1870
Type-writing machine	G. S. Heath	560,162	May 12	1493	338	75	978
Type-writing machine	G. S. Heath	560,163	May 12	1496	339	75	979
Type-writing machine	G. S. Heath	560,164	May 12	1500	340	75	979
Type-writing machine	T. T. Heath and A. N. Verdin	553,909	Feb. 4	193	41, 42	74	341
Type-writing machine	F. W. Hillard	554,874	Feb. 18	1893	445 446	74	892
Type-writing machine	W. K. Jenne	571,002	Nov. 10	1046	245	77	862
Type-writing machine	W. P. Kidder	567,242	Sept. 8	882	211	76	1460
Type-writing machine	W. G. Lane	569,928	Oct. 20	2119	504	77	427
Type-writing machine	N. R. Marshman and L. S. Burrledge	565,171	Aug. 4	413	99 100	76	693
Type-writing machine	J. N. Maskelyne, Jr.	560,142	May 12	1461	329 330	75	973
Type-writing machine	A. Matteson	567,349	Sept. 8	1099	264 265	76	1497
Type-writing machine	O. F. Mayer	565,482	Aug. 11	963	229 230	76	816
Type-writing machine	O. F. Mayer	572,348	Dec. 1	455	107	77	1365

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.
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Type-writing machine	J. F. McLaughlin	553,173	Jan. 14	1242	302	74 247
Type-writing machine	J. F. McLaughlin	553,174	Jan. 14	1247	303	
Type-writing machine	H. W. Merritt	560,041	May 12	1276	2-7	75 248
Type-writing machine	H. W. Merritt	574,159	Dec. 29	3738	892	77 2049
Type-writing machine	M. G. Merritt	573,472	Dec. 22	2494	591	77 1804
Type-writing machine	T. Oliver	562,337	June 16	2232	543	75 1835
					544	
Type-writing machine	H. G. Perry	552,774	Jan. 7	497	122	74 94
					123	
Type-writing machine	W. P. Quentell	556,863	Mar. 24	2470	581	74 1641
					582	
Type-writing machine	J. Richardson	554,730	Feb. 18	1636	386	74 843
Type-writing machine	W. B. Schwartz	566,232	Aug. 18	2315	387	76 1090
Type-writing machine	G. B. Selden	557,239	Mar. 31	3143	754	74 1787
					755	
Type-writing machine	C. H. Shepard	573,626	Dec. 22	2773	657	77 1859
					658	
Type-writing machine	S. J. and E. S. Shimer	563,080	June 30	3576	858	75 2127
Type-writing machine	C. L. Sholes	558,428	Apr. 14	1618	392	75 322
					393	
Type-writing machine	C. L. Sholes	559,621	May 5	464	107	75 771
					108	
Type-writing machine	C. L. Sholes	559,755	May 5	692	164	75 813
					165	
Type-writing machine	C. L. Sholes	559,756	May 5	698	166	75 814
					167	
Type-writing machine	C. L. Sholes	568,630	Sept. 29	3349	802	76 1962
					803	
Type-writing machine	Z. G. Sholes	557,617	Apr. 7	153	40	75 30
Type-writing machine	Z. G. Sholes	557,618	Apr. 7	156	41	75 31
Type-writing machine	Z. G. Sholes	557,619	Apr. 7	158	41	75 31
Type-writing machine	T. S. Spivey	567,365	Sept. 8	1136	272	76 1504
Type-writing machine	A. W. Steiger	557,909	Apr. 7	675	161	75 128
Type-writing machine	A. W. Steiger	557,913	Apr. 7	683	163	75 130
Type-writing machine	B. C. Stickney	557,711	Apr. 7	325	78, 79	75 62
Type-writing machine	A. W. Street	561,834	June 9	1382	331	75 1655
					332	
Type-writing machine	E. Terry	555,541	Mar. 3	96	21	74 1148
Type-writing machine	E. Terry	565,148	Aug. 4	370	85, 86	76 686
Type-writing machine	E. Terry	570,886	Nov. 3	857	199	77 800
					200	
Type-writing machine	R. Toepper	571,414	Nov. 17	1746	416	77 1006
					417	
Type-writing machine	W. H. Travis	557,728	Apr. 7	360	84, 85	75 68
Type-writing machine	F. L. Twiss and L. A. Barber	560,012	May 12	1214	270	75 925
					271	
Type-writing machine	H. H. Unz	560,244	May 19	1659	378	75 1060
Type-writing machine	H. H. Unz	569,255	Oct. 13	931	223	77 193
Type-writing machine	H. H. Unz	570,522	Nov. 3	152	37	77 666
Type-writing machine	L. F. Urbanus	574,230	Dec. 29	3920	932	77 2082
					933	
Type-writing machine	H. L. and F. X. Wagner	559,345	Apr. 28	3268	789	75 665
					791	
Type-writing machine	C. W. Walker	568,645	Sept. 29	3382	810	76 1967
Type-writing machine	C. W. Walker	572,737	Dec. 8	1153	278	77 1517
Type-writing machine	C. W. Walker	572,845	Dec. 8	1329	320	77 1551
Type-writing machine	G. B. Webb	555,138	Feb. 25	2385	566	74 998
Type-writing machine	G. B. Webb	559,089	Apr. 28	2764	669	75 571
					670	
Type-writing machine	G. B. Webb	567,799	Sept. 15	1850	444	76 1654
					445	
Type-writing machine	G. B. Webb	570,523	Nov. 3	154	37, 38	77 667
Type-writing machine	F. Wolter	555,504	Mar. 3	183	43, 44	74 1163
Type-writing-machine attachment	W. E. Derrick	559,571	May 5	376	91	75 756
Type-writing-machine attachment	N. W. Hartwell	557,203	Mar. 31	3078	738	74 1776
Type-writing-machine attachment	P. F. Nilson	554,831	Feb. 18	1817	425	74 879
					426	
Type-writing-machine cleaning device	F. Van Fleet	556,116	Mar. 10	1122	266	74 1356
Type-writing machine cushion-key	W. P. Devine	558,872	Apr. 21	2380	580	75 481
Type-writing machine cushion-key	R. S. Graham and W. B. Savell	569,196	Oct. 13	822	192	77 172
Type-writing machine. Electric	J. L. Garber	554,594	Feb. 11	1401	3-9	74 782
Type-writing-machine feeding attachment	G. L. Rawdon	568,118	Sept. 22	2417	587	76 1778
Type-writing-machine indicator device	J. M. Fairfield	553,520	Jan. 28	1856	440	74 392
Type-writing machine inking mechanism	V. F. Lake	563,357	Aug. 4	740	177	76 754
Type-writing-machine key	R. S. Graham and W. B. Savell	562,163	June 30	3711	888	75 2152
Type-writing-machine key-action	W. P. Kidder	567,241	Sept. 8	841	211	76 1459
Type-writing-machine keyboard	A. von Kunowski	556,422	Mar. 17	1719	400	74 1483
Type-writing machine platen	J. D. Daugherty	569,092	Oct. 6	648	149	77 124
Type-writing-machine platen	C. W. Seamans	574,175	Dec. 29	3789	904	77 2059
Type-writing-machine platen-shift	W. P. Kidder	564,689	July 28	2550	603	76 519
Type-writing-machine ribbon	T. W. Manvell	554,706	Feb. 18	1602	377	74 837
Type-writing-machine ribbon-holder	E. L. Foster	554,500	Feb. 11	1396	328	74 761
Type-writing machine. Stenographic	F. E. Curtis	556,533	Mar. 17	1926	449	74 1522
					450	
Type-writing machines. Carbon-holder for	M. J. Sunderlin	555,748	Mar. 3	446	106	74 1210
Type-writing machines, &c. Carriage-feeding mechanism for	C. Sears	565,694	Aug. 11	1366	332	76 891
					333	
Type-writing machines. Device for shifting rollers of	J. W. Rich and R. H. Ross	566,536	Aug. 25	2883	701	76 1212

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Type-writing machines. Duplex-ribbon mechanism for	J. T. Davis	555,435	Feb. 25	2911	691 692	74	1096
Type-writing machines. Mechanical movement for.	J. B. Lyford	565,009	Aug. 4	80	19	76	632
Type-writing machines to dropping leaves of cabinets, &c. Device for detachably securing	J. B. Elliott and R. J. Mawhinney	558,789	Apr. 21	2243	542	75	454
Type-writing machines. Word-counter for	J. A. Hasty	557,674	Apr. 7	271	65	75	51
Type-writing or other machines. Character-selecting device for	C. E. Allen	562,562	June 23	2612	634	75	1920
Typograph	F. E. Bright	557,184	Mar. 31	3022	722 723 724 725 726	74	1769
Typograph	H. W. Libbey	555,519	Mar. 3	58	13	74	1141
Typograph	J. R. Rogers	557,232	Mar. 31	3121	748 749 750 751	74	1784
Typographic machines. Tablet-holder for	T. T. Heath and A. N. Verdin	553,986	Feb. 4	337	73	74	566
Typographic machines. Type-carrier for	T. T. Heath and A. N. Verdin	553,985	Feb. 4	333	73	74	566
Umbrella	G. H. Dudley	567,082	Sept. 1	621	144	76	1400
Umbrella	F. Hadfield	559,577	May 5	385	93	75	757
Umbrella	M. G. McGuire	555,729	Mar. 3	415	95, 96	74	1204
Umbrella	H. Plack, Jr., and C. H. Pimlott	570,857	Nov. 3	798	183	77	787
Umbrella	R. P. Saffold	574,219	Dec. 29	3896	927	77	2077
Umbrella	C. Simmons	568,806	Oct. 11	158	37	77	32
Umbrella	J. W. Snowden	569,248	Oct. 13	923	220	77	192
Umbrella	R. Waples, Jr.	569,569	Oct. 13	1479	348	77	294
Umbrella attachment	J. J. McIntyre	569,762	Oct. 20	1851	438	77	377
Umbrella attachment	J. B. Newman and D. H. Roberts	566,610	Aug. 25	2985	729	76	1233
Umbrella-cane	R. Waples, Jr.	558,867	Apr. 21	2367	578	75	478
Umbrella-carrier	J. Bolt	559,053	Apr. 29	2699	657	75	558
Umbrella-carrier. Adjustable	V. A. Stumph	558,914	Apr. 21	2461	599	75	495
Umbrella-case	G. K. Lloyd	562,863	July 14	1088	256	76	219
Umbrella-cover. Detachable	W. Boustead	564,241	July 21	1770	414	76	360
Umbrella-drip attachment	F. Hinde	559,101	Apr. 28	2785	675	75	575
Umbrella-fixture	H. D. Sabin	554,313	Feb. 11	925	212	74	692
Umbrella-fixture	W. J. Slyder	567,009	Sept. 1	487	113	76	1374
Umbrella. Folding	A. Beauchamp	562,507	June 23	2510	609	75	1903
Umbrella. Folding	W. O. Whitney	573,375	Dec. 15	2280	544	77	1747
Umbrella. Folding	S. J. Wilson	554,329	Feb. 11	953	220	74	696
Umbrella or parasol	E. E. Mallory	568,093	Sept. 22	2400	578	76	1769
Umbrella or parasol	C. S. Stokes	571,911	Nov. 24	2644	626	77	1191
Umbrella or parasol	G. W. Swift, Jr.	574,080	Dec. 29	3592	858	77	2024
Umbrella or parasol cover or lining	J. den Hartog	556,846	Mar. 24	2436	572	74	1635
Umbrella or parasol retainer and stop	W. Morrison	572,765	Dec. 8	1200	290	77	1525
Umbrella or parasol rib-tip holder	H. Scudder	572,833	Dec. 8	1314	315	77	1548
Umbrella or walking stick	L. Sandberg	559,043	Apr. 28	2686	654	75	555
Umbrella-rack	A. H. Davison	553,109	Jan. 14	1143	277	74	229
Umbrella rib and stretcher	R. P. Hull	559,288	Apr. 28	3169	765	75	646
Umbrella rib and stretcher	D. H. Redmond and C. B. Baldwin	571,623	Nov. 17	2108	506	77	1072
Umbrella-ribs. Machine for forming connections for	C. F. Wurster	553,603	Jan. 28	2005	475	74	419
Umbrella-ribs. Machine for making tip-caps for	C. F. Wurster	553,604	Jan. 28	2008	476	74	419
Umbrella-ribs. Name or mark tablet for	S. Learoyd	555,780	Mar. 3	482	116	74	1217
Umbrella-runner	J. Simmons	558,530	Apr. 21	1798	437	75	374
Umbrella-runner retainer	D. S. Swarbrig	554,897	Feb. 18	1939	456	74	900
Umbrella. Self-opening	F. J. Müller	559,144	Apr. 28	2905	702	75	597
Umbrella-sheath	H. Gochbauer	567,827	Sept. 15	1912	458	76	1666
Umbrella stand and lock	H. Ellsworth	554,618	Feb. 11	1447	339	74	790
Umbrellas, canes, &c. Support for	F. X. Waldron and J. Paquet	569,257	Oct. 13	933	224	77	194
Umbrellas, &c. Handle and stick for	E. Weidlich	558,884	Apr. 21	2401	585	75	485
Umbrellas or parasols. Rib-tip holder for	H. Scudder	558,851	Apr. 21	2338	568	75	472
Umbrellas, &c. Rib-holder for	A. W. Leigh	552,581	Jan. 7	133	37	74	27
Umbrellas. Rib-tip-holding ring for	C. Bromhall	565,601	Aug. 11	1202	289	76	858
Unchecking-hook	W. H. Ferris and J. P. Hart	561,780	June 9	1296	311	75	1640
Undergarment	C. A. Brown	570,696	Nov. 3	520	121	77	735
Undergarment	D. I. Devoe	562,287	June 16	2150	523	75	1819
Undergarment	J. L. Nisbet	561,173	June 2	183	46	75	1402
Undergarment	J. C. Sanford	565,182	Aug. 4	437	105	76	698
Undergarment	A. G. Velasko	570,971	Nov. 10	995	231	77	852
Undershirt	A. G. Velasko	560,307	May 19	1779	405	75	1079
Undershirt	M. J. Colver	559,681	May 5	559	132	75	789
Undertaker's pedestal	A. C. Dillman	563,264	July 7	53	13	76	12
Undertaker's pedestal	W. A. Penfield	566,934	Sept. 1	342	80	76	1348
Underwaist	J. C. Andrews	571,636	Nov. 17	2133	512	77	1076
Underwaist	G. D. McKay	561,427	June 2	654	160	75	1494
Unloading apparatus	B. S. Randolph	568,369	Sept. 29	2867	689 690	76	1873
Upholstering-machine	G. W. Young and A. J. Locher	557,748	Apr. 7	411	96, 97	75	78
Upholstering-pin	J. M. Bolton and G. H. Howell	570,838	Nov. 3	762	174	77	780
Upholstery	J. A. Staples	572,581	Dec. 8	866	208 209	77	1462
Uppier	A. Seaver	559,617	May 5	460	106	75	771
Upright boiler	P. J. McGrath	567,768	Sept. 15	1797	431	76	1644
Urinal guard or screen	M. W. Brockman	557,762	Apr. 7	437	103	75	82
Urinal guard or screen	E. L. Maxwell and H. W. Gorman	571,275	Nov. 10	1524	361	77	950
Vacuum. Apparatus for producing	E. J. Byrne	564,554	July 21	2292	538 539	76	452
Vacuum-pan	H. H. Dow	554,916	Feb. 18	1969	464 465	74	906
Vacuum-pan	S. D. Rowland	565,637	Aug. 11	1260	304	76	869
Vacuum-pan	J. Smith	572,382	Dec. 1	542	128	77	1381
Valise. Extension	P. I. and E. Andrews	562,695	June 23	2839	689	75	1964
Valise. Telescopic	G. T. Conine	566,663	Aug. 25	3057	747	76	1246

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Valise to be carried upon bicycles.....	F. Mueller.....	553,786	Jan. 28	2307	547	74	475
Valve.....	O. J. Baldwin.....	558,708	Apr. 21	2100	507	75	428
Valve.....	E. A. Benner.....	555,202	Feb. 25	2496	589	74	1019
Valve.....	H. T. Bush.....	555,759	Mar. 3	459	109	74	1212
Valve.....	A. M. Clark.....	563,742	July 14	857	203 204	76	177
Valve.....	T. V. Coony.....	557,975	Apr. 7	799	191	75	151
Valve.....	W. Curlett.....	561,658	June 9	1060	256	75	1595
Valve.....	J. Dale, Jr.....	562,282	June 16	2143	521	75	1817
Valve.....	R. M. Dixon.....	554,915	Feb. 18	1968	464	74	905
Valve.....	G. W. Driggs.....	561,096	June 2	33	9	75	1373
Valve.....	J. A. and S. Fletcher.....	556,006	Mar. 10	904	216	74	1319
Valve.....	C. Gullmann.....	556,312	Mar. 10	1510	351	74	1428
Valve.....	W. F. Harrison.....	561,989	June 16	1645	401	75	1726
Valve.....	W. Heston.....	560,993	May 26	3018	695	75	1325
Valve.....	W. Heston.....	560,994	May 26	3019	696	75	1326
Valve.....	B. W. Hill.....	573,656	Dec. 22	2843	670	77	1871
Valve.....	H. E. Hunt.....	555,377	Feb. 25	2803	658 659	74	1077
Valve.....	E. G. Kimmell.....	563,183	June 30	3746	897	75	2159
Valve.....	T. Linke.....	568,858	Oct. 6	249	58	77	48
Valve.....	A. Marichal.....	556,547	Mar. 17	1947	454	74	1526
Valve.....	A. Marichal.....	556,549	Mar. 17	1949	455	74	1526
Valve.....	A. Marichal.....	573,607	Dec. 22	2721	647	77	1848
Valve.....	W. J. McKay.....	554,455	Feb. 11	1173	273	74	738
Valve.....	J. N. Pew.....	556,023	Mar. 10	944	225	74	1325
Valve.....	J. N. Pew.....	556,024	Mar. 10	945	225	74	1325
Valve.....	W. G. Prescott.....	559,908	May 12	1036	230	75	890
Valve.....	E. J. Rea.....	564,291	July 21	1860	435	76	374
Valve.....	J. Robinson.....	553,939	Feb. 4	253	55	74	552
Valve.....	E. L. Rowe.....	556,695	Mar. 17	2167	506	74	1567
Valve.....	E. L. Rowe.....	572,451	Dec. 1	645	152	77	1401
Valve.....	S. W. Sampson.....	570,772	Nov. 3	648	148	77	757
Valve.....	G. H. F. Schrader.....	565,572	Aug. 11	1151	277	76	849
Valve.....	F. H. Sharar.....	570,568	Nov. 3	255	63, 64	77	685
Valve.....	H. Sieben.....	557,902	Apr. 7	662	159	75	125
Valve.....	W. W. Smith.....	567,011	Sept. 1	489	113	76	1374
Valve.....	P. Spitzenberg.....	572,580	Dec. 8	865	208	77	1462
Valve.....	S. Tyldesley.....	568,965	Oct. 6	429	95	77	82
Valve.....	C. W. Weiss.....	556,037	Mar. 10	973	233	74	1330
Valve.....	F. J. Weiss.....	559,316	Apr. 28	3208	775	75	653
Valve.....	H. E. Wells.....	563,946	July 14	1245	291	76	246
Valve.....	W. H. Wilder.....	561,638	June 9	1030	247	75	1590
Valve.....	T. S. Wilkin.....	569,366	Oct. 13	1121	267 268	77	231
Valve.....	H. K. Wood.....	566,108	Aug. 18	2120	516	76	1052
Valve-actuating mechanism.....	G. Alderson.....	573,194	Dec. 15	1950	469	77	1687
Valve. Air.....	J. Poulson.....	553,041	Jan. 14	1002	245	74	201
Valve. Air.....	T. Wheatley.....	566,954	Sept. 1	372	87	76	1353
Valve. Air-brake coupling.....	T. A. Taylor and G. W. S. Austin.....	558,235	Apr. 14	1288	315	75	260
Valve and elbow for hot-water radiators.....	C. J. Balhasar.....	563,120	June 30	3641	872	75	2139
Valve and seat grinding device. Combined.....	A. R. Spaulding.....	563,331	July 7	175	39	76	36
Valve and stopper.....	G. H. F. Schrader.....	555,664	Mar. 3	315	73	74	1186
Valve and valve-gear.....	E. Reynolds.....	552,926	Jan. 14	820	199 200	74	167
Valve apparatus.....	J. N. Sanger.....	559,611	May 5	445	104	75	769
Valve. Atomizer.....	R. Lockwood.....	557,589	Apr. 7	109	28	75	22
Valve attachment. Safety.....	M. L. Bush.....	553,897	Feb. 4	167	35	74	536
Valve. Automatic.....	A. G. Paul.....	563,879	July 14	1122	264	76	226
Valve. Automatic.....	A. G. Paul.....	563,880	July 14	1125	264	76	226
Valve. Automatic drain.....	J. E. Howard and J. C. Taite.....	568,684	Sept. 29	3456	826	76	1982
Valve. Automatic pressure-reducing.....	T. P. Ford.....	558,794	Apr. 21	2249	543	75	456
Valve. Automatic relief.....	C. Ahrens and C. H. Fox.....	559,881	May 12	979	218	75	881
Valve. Automatic stop.....	H. A. Beidler.....	565,424	Aug. 11	856	202	76	795
Valve. Automatic stop.....	J. S. Dodge.....	564,008	July 14	1355	315 316	76	267
Valve. Back-pressure.....	F. Henneböhle.....	572,296	Dec. 1	368	87	77	1349
Valve. Balanced check.....	T. E. Brown, Jr., and R. H. Thorpe.....	558,034	Apr. 14	947	233	75	196
Valve. Balanced piston.....	J. A. Smith.....	560,550	May 19	2193	500 501	75	1153
Valve. Balanced slide.....	G. Cook.....	566,501	Aug. 25	2830	629	76	1201
Valve. Balanced slide.....	W. T. Reaser.....	556,373	Mar. 17	1627	381	74	1466
Valve. Balanced slide.....	G. S. Vaughn.....	558,866	Apr. 21	2366	578	75	478
Valve. Balanced throttle.....	F. A. Phelps, Jr.....	553,040	Jan. 14	1001	244	74	201
Valve. Ball-cock.....	J. Porteous.....	573,530	Dec. 22	2533	613	77	1821
Valve. Blowing-engine.....	J. Kennedy.....	552,909	Jan. 14	793	192 193	74	162
Valve. Boiler check.....	C. Linstrom.....	573,788	Dec. 22	3043	721	77	1909
Valve. Check.....	H. Burns.....	553,390	Jan. 21	1629	388 389	74	333
Valve. Check.....	E. Kuichling and E. L. Rowe.....	556,636	Mar. 17	2081	487	74	1551
Valve. Check.....	W. I. Miller.....	573,342	Dec. 15	2225	532	77	1736
Valve. Check.....	J. S. Wyndham and J. H. Hallett.....	574,295	Dec. 29	4024	956	77	2102
Valve. Clean-out.....	T. McCormick and K. B. Fletcher.....	554,344	Feb. 11	978	226 227	74	700
Valve. Closet-cistern.....	J. L. Mott, Jr.....	571,168	Nov. 10	1343	313	77	917
Valve-controlling device.....	J. F. Batchelor.....	552,811	Jan. 7	592	143	74	111
Valve-controlling device.....	C. E. Ongley.....	570,045	Oct. 27	2324	551	77	478
Valve. Cylindrical rotary.....	R. H. Rice.....	571,687	Nov. 17	2210	532	77	1091
Valve device. Compound-engine.....	E. F. C. Davis.....	564,050	July 14	1441	335 336	76	283
Valve device. Gas-engine.....	W. L. Crouch.....	573,322	Dec. 15	2190	523 524	77	1730
Valve. Electric.....	C. L. Fortier.....	560,703	May 26	2516	577	75	1229

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Valve. Engine.....	H. R. Fay.....	564,917	July 28	2912	697 698	76	584
Valve. Engine.....	C. A. Wheeler.....	563,827	July 14	1006	668 240	76	204
Valve. Engine cut-off.....	J. B. Pitchford.....	555,397	Feb. 25	2834	667 668	74	1083
Valve. Engine reversing.....	A. D. Ferguson and R. W. Whitney.....	554,667	Feb. 18	1539	363	74	823
Valve. Engineer's brake.....	G. Westinghouse, Jr.....	557,463	Mar. 31	3527	843 844	74	1861
Valve. Flush-tank.....	E. L. Powell.....	564,338	July 21	1937	457	76	388
Valve. Flush-tank.....	C. F. Schumacher.....	573,540	Dec. 22	2606	618	77	1825
Valve for air-brake systems. Engineer's.....	A. M. Willets.....	561,300	June 2	415	102 103	75	1450
Valve for air-brakes. Triple.....	H. L. Howe.....	568,979	Oct. 6	449	100 101	77	87
Valve for automatic sprinkler systems. Dry-pipe.....	J. T. Hill.....	570,018	Oct. 27	2277	541	77	468
Valve for beer-barrels. Bushing.....	W. W. Jackson.....	561,320	June 2	451	112	75	1457
Valve for boilers. Safety.....	T. Poterton.....	569,670	Oct. 20	1664	393	77	345
Valve for bottles. Automatic.....	H. Dotzenroth, Jr.....	558,785	Apr. 21	2236	540	75	453
Valve for cisterns, &c.....	M. H. W. Hermann.....	552,998	Jan. 14	941	228	74	190
Valve for engines. Automatic shut-off.....	H. Rochemovitz.....	556,939	Mar. 24	2594	610	74	1664
Valve for fluid-pressure brakes. Engineer's.....	G. B. Williams.....	559,243	Apr. 28	3096	747	75	633
Valve for gas-engines. Discharge.....	W. Burger.....	570,376	Oct. 27	2961	703	77	597
Valve for hydraulic apparatus, &c.....	W. James.....	556,419	Mar. 17	1707	398 399	74	1482
Valve for hydraulic freight-elevators, &c.....	A. M. Haley.....	553,404	Jan. 21	1654	396	74	337
Valve for hydrocarbon-reservoirs.....	J. A. Lannert and W. R. Jeavons.....	561,326	June 2	462	115	75	1459
Valve for pneumatic tools. Throttle.....	J. Keller.....	560,802	May 26	2686	617	75	1262
Valve for service-pipes. Automatic.....	W. M. Williams.....	570,833	Nov. 3	755	172	77	779
Valve for steam or water heating apparatus. Air.....	D. F. Morgan.....	554,286	Feb. 11	875	201	74	682
Valve for steering apparatus, elevators, &c.....	A. R. Boluss.....	570,246	Oct. 27	2693	640	77	548
Valve for water-tanks. Automatic.....	C. Kubach.....	562,543	June 23	2570	624	75	1913
Valve for water-tanks. Siphon.....	M. H. Wilcox.....	565,314	Aug. 4	676	162	76	741
Valve for water-tanks. Supply.....	J. M. Closson.....	565,881	Aug. 18	1707	418	76	971
Valve. Gas-controlling.....	W. P. Powers.....	555,399	Feb. 25	2837	668 669	74	1083
Valve. Gate.....	W. H. H. Sheets.....	565,239	Aug. 4	567	133	76	719
Valve-gear.....	G. A. Anderson.....	555,298	Feb. 25	2667	624 625	74	1051
Valve-gear.....	M. N. Forney.....	557,794	Apr. 7	487	116 117	75	93
Valve-gear.....	O. P. Hart.....	573,875	Dec. 29	3216	765	77	1955
Valve-gear.....	P. Jennings.....	555,955	Mar. 10	810	194	74	1301
Valve-gear.....	A. Riedler.....	561,342	June 2	497	125	75	1466
Valve-gear.....	A. Riedler.....	572,720	Dec. 8	1119	271	77	1511
Valve-gear.....	F. M. Rites.....	572,721	Dec. 8	1120	271 272	77	1511
Valve-gear.....	F. M. Rites.....	572,722	Dec. 8	1125	272	77	1512
Valve-gear.....	H. C. Sergeant.....	565,803	Aug. 11	1561	380	76	926
Valve-gear.....	H. Wojan.....	558,544	Apr. 21	1819	442 443	75	378
Valve-gear clutch.....	F. W. Gordon.....	556,817	Mar. 24	2396	563	74	1626
Valve-gear. Engine.....	C. W. Chadwick.....	561,696	June 9	1128	269	75	1608
Valve-gear. Engine.....	P. Mundt.....	573,100	Dec. 15	1782	429	77	1657
Valve-gear. Expansion-engine.....	C. H. Parshall.....	556,897	Mar. 24	2530	596	74	1652
Valve-gear. Link-motion.....	R. Scheidler.....	562,921	June 30	3264	788	75	2064
Valve-gear. Oscillating-engine.....	J. Rarick, Jr., and J. L. Walker.....	557,228	Mar. 31	3113	747	74	1783
Valve-gear. Reversing.....	J. M. Worth.....	559,018	Apr. 28	2639	643	75	547
Valve-gear. Slide.....	J. T. F. Conti.....	562,804	June 30	3046	736	75	2021
Valve-gear. Steam-engine.....	D. Ashworth.....	554,855	Feb. 18	1-65	439	74	887
Valve. Governor.....	J. W. Smith.....	560,655	May 26	2435	557	75	1213
Valve-guard.....	W. F. Niebling.....	567,279	Sept. 8	967	230	76	1474
Valve handle. Steam.....	R. McKeever.....	570,764	Nov. 3	636	146	77	754
Valve. Hydraulic.....	J. A. Zinn.....	569,907	Oct. 20	2083	496	77	420
Valve. Hydraulic-pressure-regulating.....	E. O. Thompson.....	564,167	July 14	1655	386 387	76	323
Valve. Inflation.....	S. M. Schindel.....	566,811	Sept. 1	122	30	76	1304
Valve locking or unlocking device.....	R. W. Bayley and F. L. Clark.....	557,943	Apr. 7	733	176	75	139
Valve. Lubricating.....	J. Curran.....	553,553	Jan. 28	1913	453	74	402
Valve mechanism.....	J. M. Bouck.....	569,166	Oct. 13	773	180	77	163
Valve mechanism.....	D. Cooper.....	553,776	Jan. 28	2294	544	74	473
Valve mechanism.....	H. B. Gale.....	570,727	Nov. 3	564	130 131	77	743
Valve mechanism. Cut-off.....	C. W. Thompson.....	557,916	Apr. 7	690	165	75	131
Valve mechanism for automatic air-brakes. Triple.....	P. Synnestvedt.....	556,221	Mar. 10	1317	308	74	1392
Valve mechanism for water-gas apparatus.....	O. N. Guldin.....	567,709	Sept. 15	1701	408	76	1625
Valve mechanism. Hydraulic relief.....	J. H. Habbell.....	569,921	Oct. 20	2108	102	77	424
Valve mechanism. Steam-engine.....	T. H. Haberkorn and J. A. Haley.....	555,858	Mar. 3	619	148 149	74	1244
Valve mechanism. Steam-engine.....	C. Schmid.....	554,145	Feb. 4	634	143	74	621
Valve mechanism. Triple.....	G. W. Hayden.....	556,8-6	Mar. 24	2509	592	74	1649
Valve motion for gas and petroleum engines. Ec- centric outlet.....	W. Seck.....	555,342	Feb. 25	2743	642	74	1065
Valve-operating device.....	E. F. C. Davis.....	564,051	July 14	1444	336	76	283
Valve-operating device. Compound-engine.....	E. F. C. Davis.....	566,266	Aug. 18	2363	579	76	1099
Valve-operating mechanism. Engine.....	G. W. Sheff and E. W. Riggs.....	564,112	July 14	1549	364	76	304
Valve-operating mechanism. Engine.....	J. D. Williamson, Jr.....	567,671	Sept. 15	1636	395	76	1613
Valve-operating mechanism. Throttle.....	K. Rushton.....	555,738	Mar. 3	433	102	74	1207
Valve or faucet. Supply.....	H. C. Montgomery.....	570,811	Nov. 3	704	161	77	768
Valve. Piping.....	W. B. Spencer.....	565,588	Mar. 3	175	41	74	1162
Valve. Piston.....	E. W. Naylor.....	552,582	Jan. 7	134	37	74	27
Valve. Plunger.....	J. G. Himler.....	552,707	Jan. 7	361	94	74	70
Valve. Power-motor.....	J. Anderson.....	572,396	Dec. 1	565	133	77	1385
Valve. Pressure-reducing.....	E. N. Dickerson and J. J. Suckert.....	571,346	Nov. 17	1639	389	77	987

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Valve. Pressure reducing and regulating	L. H. Hawley	573,462	Dec. 22	2475	{ 586 587	77	1801
Valve. Quick-action triple	W. Hirst	563,766	July 14	899	{ 215 216	76	185
Valve. Quick-action triple	W. Hirst	564,073	July 14	1475	{ 345 346	76	289
Valve. Radiator	F. C. Goff	562,957	June 30	3359	808	75	2085
Valve. Railway-tank	S. E. Long	566,592	Aug. 25	2959	722	76	1227
Valve. Reducing	C. H. Prüssmann	558,839	Apr. 21	2318	564	75	469
Valve. Regulating	R. M. Hunter	571,833	Nov. 24	2482	590	77	1164
Valve. Relief	W. W. Shirley	569,943	Oct. 20	2157	511	77	434
Valve. Renewable check	C. H. Easter	556,962	Mar. 24	2632	619	74	1671
Valve. Renewable-seat	W. C. Jennings	564,378	July 21	2002	470	76	399
Valve. Safety	E. E. Gold	563,371	July 7	232	53	76	47
Valve. Safety	F. Henneböhle	572,297	Dec. 1	369	87	77	1349
Valve. Safety	F. N. Winne	564,812	July 28	2752	654	76	533
Valve. Safety gas	C. O. Jackson	563,966	July 14	1285	301	76	254
Valve. Safety stop	J. M. Foster	566,452	Aug. 25	2755	668	76	1188
Valvescreen-cleaning device. Pneumatic signaling	J. R. Ide	562,301	June 16	2173	528	75	1824
Valve-seat cleaner	J. W. Moore	556,895	Mar. 24	2528	595	74	1651
Valve. Shut-off	C. E. Senna	567,200	Sept. 8	815	193	76	1448
Valve. Signaling safety	J. J. Roy	564,107	July 14	1540	361	76	302
Valve. Siphon-bottle	F. E. Morrill	565,173	Aug. 4	423	102	76	695
Valve. Slide	J. Rodgers	561,031	May 26	3083	711	75	1337
Valve. Slide-gate	J. T. Christie	559,677	May 5	551	129	75	788
Valve. Sliding-gate	D. Baker	559,926	May 12	1064	{ 236 237	75	895
Valve. Steam	C. Jenkins	565,682	Aug. 11	1350	328	76	887
Valve. Steam	C. Schneider	570,609	Nov. 3	323	80	77	698
Valve. Steam-cylinder	M. Berger	558,473	Apr. 21	1706	413	75	356
Valve. Steam dash	C. C. Worthington	561,747	June 9	1232	292	75	1629
Valve. Steam-engine	D. W. Branch	563,648	July 7	688	162	76	129
Valve. Steam-engine	S. F. Brousseau	560,467	May 19	2060	{ 469 470	75	1129
Valve. Steam-engine	M. C. Bullock	571,893	Nov. 24	2611	{ 618 619	77	1185
Valve. Steam-engine	S. Eide	554,506	Feb. 11	1254	293	74	753
Valve. Steam-engine	A. D. Ferguson	564,274	July 21	1831	428	76	369
Valve. Steam-engine	E. C. Knapp	560,803	May 26	2688	617	75	1262
Valve. Steam-engine	C. Knudsen	572,608	Dec. 8	919	222	77	1472
Valve. Steam-engine	I. N. Moore	561,682	June 9	1104	264	75	1603
Valve. Steam-engine	E. F. Spaulding	572,579	Dec. 8	862	{ 207 208	77	1461
Valve. Steam-engine cylinder	J. C. Getty	554,364	Feb. 11	1009	234	74	707
Valve. Steam-engine exhaust	A. Bollinckx	561,197	June 2	222	53	75	1410
Valve. Steam-engine outlet	W. Schmidt	562,039	June 16	1738	421	75	1743
Valve. Steam radiator	J. L. Judge	556,421	Mar. 17	1717	400	74	1483
Valve. Steam stop	R. and W. McLaughlin	571,010	Nov. 10	1062	{ 248 249	77	865
Valve. Stop	H. R. Frisbie	568,719	Sept. 29	3510	641	76	1993
Valve-stop	A. M. Morrell	553,785	Jan. 28	2306	547	74	475
Valve. Stop and waste	W. B. Guimarin	565,205	Aug. 4	472	113	76	704
Valve-stopper	C. E. Long	570,671	Nov. 3	474	110	77	726
Valve-stopper and measuring device	C. E. Wyckoff	557,931	Apr. 7	716	173	75	135
Valve. Straightway	E. H. Lunkin	571,880	Nov. 24	2576	610	77	1179
Valve. Straightway stop	G. P. Vincent	554,205	Feb. 4	731	166	74	639
Valve. Tank	P. Harvey	555,861	Mar. 3	626	150	74	1245
Valve. Tank	B. F. Mills	573,025	Dec. 15	1643	395	77	1630
Valve. Tank	A. Riegler	563,311	July 7	135	31	76	29
Valve. Tank flush	T. Kruse	565,465	Aug. 11	927	221	76	808
Valve. Tank-supply	W. Scott	571,023	Nov. 10	1083	253	77	868
Valve. Tap or other	W. H. Foss	558,020	Apr. 7	913	228	75	171
Valve. Thermostatic	M. Leitch	564,791	July 28	2717	645	76	548
Valve. Throttle	J. V. Beekman	561,556	June 9	888	213	75	1563
Valve. Tire or like	G. H. F. Schrader	555,665	Mar. 3	317	74	74	1187
Valve. Triple	H. L. Howe	568,980	Oct. 6	454	{ 102 103	77	87
Valve. Triple	W. E. Prindle	558,838	Apr. 21	2316	564	75	468
Valve. Vent	W. Meyrick and L. Wilson	557,412	Mar. 31	3449	826	74	1846
Valve. Water-pipe air	A. H. Schierholz	557,343	Mar. 31	3327	799	74	1823
Valves and valve-seats. Machine for repairing	F. E. Dexter	560,461	May 19	2082	{ 474 475	75	1134
Valves. Electrically-operated means for controlling	C. M. Bush	558,256	Apr. 14	1320	322	75	267
Valves of baths, basins, &c. Apparatus for controlling	H. W. Pearson	552,544	Jan. 7	72	19, 20	74	16
Vamp-marking machine	J. F. Rogers	560,865	May 26	2610	645	75	1286
Vanillin. Manufacture of	M. Otto and A. Verley	553,593	Jan. 28	1990	471	74	416
Vanillin. Obtaining	F. Ach	561,077	June 2	1	.....	75	1367
Vanillin. Obtaining	C. Bergmann	571,917	Nov. 24	2654	.....	77	1193
Vanillin. Obtaining	W. Haarmann	560,494	May 19	2105	.....	75	1138
Vanillin. Obtaining	J. L. Novarine	565,918	Aug. 18	1782	.....	76	987
Vanillin. Obtaining	J. L. Novarine	565,919	Aug. 18	1784	.....	76	987
Vanillin, &c. Obtaining	M. Otto and A. Verley	553,039	Jan. 14	1000	.....	74	201
Vanillin parafenetidin	C. Goldschmidt	572,890	Dec. 8	1392	.....	77	1564
Vanner	E. A. Sperry	561,355	June 2	519	130	75	1470
Vanning-machine and concentrator	W. H. Hooper	565,355	Aug. 4	739	177	76	754
Vapor-bath. Collapsible	G. M. Sternkopf	558,857	Apr. 21	2344	{ 570 571	75	474
Vapor-burner	G. W. Billings	555,070	Feb. 25	2259	539	74	973
Vapor-burner	H. A. House	571,860	Nov. 24	2539	602	77	1172
Vapor-burner	J. A. Lannert and W. R. Jeavons	556,355	Mar. 17	1599	{ 373 374	74	1460
Vapor-burner	J. A. Lannert and W. R. Jeavons	570,854	Nov. 3	792	182	77	786
Vapor-burner	J. B. de Léry	565,471	Aug. 11	944	224	76	812
Vapor-burner	L. Stockstrom	569,524	Oct. 13	1388	327	77	278

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Vapor burner and igniter	H. A. House	559,895	May 12	1011	224	75	887
Vapor-burner attachment	G. W. Billings	568,228	Sept. 22	2633	632	76	1813
Vapor burner. Hydrocarbon	H. Ruppel	567,659	Sept. 15	1622	390	76	1611
Vapor burner with overheater. Petroleum	L. Dürr	568,842	Oct. 6	213	50	77	42
Vapor-burning apparatus	H. A. House	559,894	May 12	1009	224	75	886
Vapor-engine	I. F. Allman	556,237	Mar. 10	1342	315 316	74	1397
Vapor-engine	A. F. Rober	560,149	May 12	1475	333	75	975
Vapor-motor	L. S. Gardner	558,943	Apr. 28	2511	609	75	522
Vaporizer and burner. Hydrocarbon	J. Heilbron	562,961	June 30	3363	809	75	2086
Vaporizer and mixer for gasoline-engines	J. Pratt	567,253	Sept. 8	908	217	76	1463
Vaporizer for petroleum-engines	E. Kaselowsky	559,290	Apr. 28	3173	766	75	646
Vaporizer. Oil-engine	I. F. Allman	563,541	July 7	516	119	76	98
Vaporizer. Oil-engine	A. Barker	566,125	Aug. 18	2147	533	76	1057
Vaporizer. Retort	G. Young	558,247	Apr. 14	1305	318	75	264
Variable-cut-off engine	J. Abell	560,182	May 19	1543	349	75	1039
Varnish-can.	J. L. Humphrey	563,178	June 30	3733	894	75	2156
Vat: See Milk-heating vat.							
Vault. Grave	L. Warstler	564,354	July 21	1559	461	76	392
Vault for banks. Emergency	W. C. Page	567,110	Sept. 1	667	156	76	1408
Vault-light	J. G. Pennycuik	568,789	Oct. 6	134	32	77	27
Vault. Safety bank	T. Barnes	554,411	Feb. 11	1097	255	74	724
Vault. Sectional adjustable burial	W. Eckels	557,783	Apr. 7	465	110	75	88
Vaults or safes. Removable sill for	F. S. Holmes	557,389	Mar. 31	3404	817 818	74	1838
Vegetable-cutter	M. Beamer	553,385	Jan. 21	1624	387	74	332
Vegetable-cutter	C. A. Gordon	558,063	Apr. 14	1005	245	75	205
Vegetable cutter and grater	A. J. Hofmann	560,715	May 26	2537	583	75	1233
Vegetable cutter, grater, and dish-drainer	F. B. Cunningham	564,595	July 28	2387	582	76	488
Vegetable cutting and grating machine	C. A. Langer	573,431	Dec. 15	2407	573	77	1770
Vegetable-cutting machine	W. H. Burgin	552,512	Jan. 7	18	6	74	6
Vegetable-fork	G. W. Paige	557,016	Mar. 24	2746	651	74	1693
Vegetable-mincer	J. W. Taylor	555,834	Mar. 3	572	138	74	1234
Vegetation-exterminator. Electrical	M. S. Cummings	565,671	Aug. 11	1327	320	76	883
Vehicle	J. Appleton	569,779	Oct. 20	1880	446	77	382
Vehicle	J. J. Burnshire	566,374	Aug. 25	2578	629	76	1155
Vehicle	C. A. Hennicke	571,859	Nov. 24	2535	601	77	1171
Vehicle	F. F. Landis	562,623	June 23	2726	662	75	1942
Vehicle	M. Mishel	569,343	Oct. 13	1086	258	77	224
Vehicle	S. M. Schindel	558,002	Apr. 7	874	220 221	75	164
Vehicle	C. L. Schwarz	561,287	June 2	397	99	75	1447
Vehicle and motor power. Automatic	A. B. Andrews	559,561	May 5	365	88	75	753
Vehicle-body	J. N. Miller	569,794	Oct. 20	1906	452 453	77	387
Vehicle-bolster	W. H. Johnston	566,401	Aug. 25	2628	642	76	1165
Vehicle-boot attachment	S. E. Lillja	563,045	June 30	3491	839	75	2111
Vehicle box and axle	J. L. Cook	556,809	Mar. 24	2382	560	74	1624
Vehicle box and spindle. Combined	H. H. Porter	559,146	Apr. 28	2908	702	75	597
Vehicle-brake	C. B. Fairchild	567,951	Sept. 15	2107	508	76	1703
Vehicle-brake	C. B. Fairchild	569,150	Oct. 6	747	174 175	77	141
Vehicle-brake	C. B. Fairchild	572,939	Dec. 8	1491	358	77	1584
Vehicle-brake	J. A. Frazier	561,705	June 9	1155	275	75	1614
Vehicle-brake	J. P. Holman	564,562	July 21	2320	545	76	456
Vehicle-brake	I. N. Keeling	558,282	Apr. 14	1366	333	75	275
Vehicle-brake	O. M. Kirlin	564,019	July 14	1372	819	76	271
Vehicle-brake	D. P. Martin, E. Hervais, and F. Loppé	555,871	Mar. 3	646	155 156	74	1249
Vehicle-brake	J. H. Miller	569,342	Oct. 13	1085	257	77	224
Vehicle-brake	I. W. Price	571,240	Nov. 10	1463	343	77	938
Vehicle-brake	C. Snow	570,345	Oct. 27	2909	690	77	588
Vehicle-brake	V. T. Sweeney	573,246	Dec. 15	2038	489	77	1703
Vehicle-brake	J. E. and J. G. Walton	564,669	July 28	2500	591	76	510
Vehicle-brake	J. W. York	557,747	Apr. 7	410	96	75	77
Vehicle-brake. Automatic	H. L. Bailey	555,720	Mar. 3	397	92, 93	74	1201
Vehicle-brake. Automatic	L. H. Hewitt	558,175	Apr. 14	1182	288	75	241
Vehicle-brake. Automatic	H. C. Osburn	573,995	Dec. 29	3447	824 825	77	1997
Vehicle-coupling	S. Grim	564,484	July 21	2179	510 511	76	432
Vehicle-door fastener	J. Stivers	558,226	Apr. 14	1273	311	75	258
Vehicle-door opening or closing device	J. Frye	566,900	Sept. 1	281	65	76	1336
Vehicle draft appliance	E. Kunau	553,600	Jan. 28	2134	505	74	441
Vehicle draft-bar	S. Parks	562,970	June 30	3377	812	75	2089
Vehicle driving-gear	F. W. Haviland	570,395	Oct. 27	3002	710 711	77	605
Vehicle driving-gear	F. W. Haviland	570,396	Oct. 27	3005	711 712	77	606
Vehicle folding seat	J. A. Edwards	574,310	Dec. 29	4046	961	77	2106
Vehicle folding step	J. M. and A. T. Prator	560,752	May 26	2593	597	75	1244
Vehicle. Foot-propelled	G. G. J. Millar	565,117	Aug. 4	294	70	76	671
Vehicle for single-rail elevated railways. Motor	F. B. Behr	552,812	Jan. 7	593	144 145	74	111
Vehicle-gear	W. Atkinson	571,589	Nov. 17	2051	489	77	1061
Vehicle-gear	R. D. Scott	553,692	Jan. 28	2153	509	74	445
Vehicle guiding device	J. G. Alexander	557,471	Mar. 31	3542	847	74	1864
Vehicle-heater	T. H. C. Beall	554,106	Feb. 4	562	125	74	607
Vehicle ice-shoe	A. A. Williams and T. Wilmore	562,506	June 23	2509	608	75	1903
Vehicle-jack	C. W. Schmueser	559,224	Apr. 28	3067	740	75	628
Vehicle king-bolt socket	H. C. Swan	558,232	Apr. 14	1282	313	75	259
Vehicle luggage-carrier	C. J. Brosnan	555,472	Feb. 25	2982	710	74	1110

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Vehicle. Motor.....	C. H. Barrows.....	564,584	July 28	2362	556 557	76	483
Vehicle. Motor.....	C. H. Barrows.....	567,445	Sept. 8	1261	305 306	76	1527
Vehicle. Motor.....	E. Capitaine.....	572,498	Dec. 1	718	171	77	1414
Vehicle. Motor.....	J. M. Cook.....	569,175	Oct. 13	785	183 184	77	166
Vehicle. Motor.....	J. F. Duryea.....	572,051	Nov. 24	2880	679 680	77	1237
Vehicle. Motor.....	A. H. Kennedy.....	561,997	June 16	1658	405	75	1722
Vehicle. Motor.....	G. Langer.....	573,010	Dec. 15	1622	389 390	77	1625
Vehicle. Motor.....	E. J. Pennington.....	570,440	Oct. 27	3093	737	77	623
Vehicle. Motor.....	E. J. Pennington.....	570,441	Oct. 27	3095	737	77	623
Vehicle. Motor.....	E. J. Pennington.....	574,262	Dec. 29	3967	942 943	77	2090
Vehicle motor and wheel.....	C. F. Goddard.....	574,200	Dec. 29	3852	918	77	2069
Vehicle. Motor-propelled.....	C. Delahunt.....	568,431	Sept. 29	2970	714	76	1892
Vehicle-rim.....	J. A. Woodworth.....	563,901	July 14	1162	273	76	233
Vehicle. Road.....	W. W. Grant.....	552,757	Jan. 7	467	116 117	74	58
Vehicle-runner.....	S. E. Oviatt.....	560,279	May 19	1729	393	75	1071
Vehicle running-gear.....	I. M. Allen and J. M. Miller.....	568,809	Oct. 6	299	68	77	57
Vehicle running-gear.....	O. Gravel.....	571,856	Nov. 24	2532	600	77	1171
Vehicle running-gear.....	B. F. Haldeman.....	572,481	Dec. 1	686	164	77	1409
Vehicle running-gear.....	A. S. Hand.....	553,489	Jan. 21	1799	428	74	364
Vehicle running-gear.....	A. A. Holt.....	571,764	Nov. 24	2373	566 567	77	1141
Vehicle running-gear.....	E. J. Lahan.....	564,088	July 14	1502	352	76	295
Vehicle running-gear.....	T. G. Mandt.....	553,664	Feb. 4	91	19	74	522
Vehicle running-gear.....	H. C. Swan.....	558,229	Apr. 14	1278	312	75	259
Vehicle running-gear.....	H. C. Swan.....	558,230	Apr. 14	1279	312	75	259
Vehicle running-gear.....	H. C. Swan.....	558,231	Apr. 14	1281	312 313	75	259
Vehicle running-gear.....	O. Wilson.....	554,472	Feb. 11	1204	280	74	744
Vehicle-screen.....	J. M. Fleming.....	560,203	May 19	1579	358	75	1045
Vehicle-seat.....	A. G. Avery.....	566,836	Sept. 1	164	38	76	1314
Vehicle-seat.....	B. J. McGrann.....	558,585	Apr. 21	1908	464	75	393
Vehicle-seats. Folding canopy-cover for.....	A. G. Henery.....	573,974	Dec. 29	3412	818	77	1990
Vehicle. Self-propelling.....	R. H. Plass.....	570,952	Nov. 10	967	225	77	847
Vehicle. Self-propelling.....	R. H. Plass.....	571,392	Nov. 17	1712	407 408	77	1000
Vehicle. Self-propelling.....	R. F. Stewart.....	554,319	Feb. 11	934	214 215	74	693
Vehicle spindle and box.....	D. M. Loucks.....	566,200	Aug. 18	2267	554	76	1080
Vehicle-spring.....	J. F. Bickel.....	553,201	Jan. 14	1301	315	74	258
Vehicle-spring.....	G. T. Glover.....	553,558	Jan. 23	1920	454	74	403
Vehicle-spring.....	R. T. Lombard.....	551,235	June 2	274	69	75	1421
Vehicle-spring.....	H. T. Richmond.....	559,085	Apr. 23	2748	668	75	567
Vehicle-spring.....	M. L. Senderling.....	565,238	Aug. 4	565	132 133	76	719
Vehicle-spring.....	H. C. Swan.....	572,133	Dec. 8	1147	277	77	1515
Vehicle-spring.....	O. Wilson.....	566,434	Aug. 25	2692	657	76	1177
Vehicle spring draft attachment.....	H. Barber.....	558,143	Apr. 14	1129	275	75	231
Vehicle spring draft attachment.....	H. Barber.....	563,437	July 7	343	77	76	67
Vehicle spring-gear.....	E. C. Hoffman.....	562,399	June 23	2337	570	75	1870
Vehicle spring-seat.....	A. H. Holland.....	567,314	Sept. 8	1031	247	76	1425
Vehicle spring-wheel.....	F. H. Richards.....	560,648	May 26	2425	554	75	1211
Vehicle-starter.....	C. Dietz.....	572,970	Dec. 15	1559	373 374	77	1613
Vehicle steering connection.....	J. M. Fuller.....	552,524	Jan. 7	37	11	74	10
Vehicle-step.....	G. D. Lewis and P. S. Bosworth.....	566,919	Sept. 1	317	74	76	1343
Vehicle-stop.....	W. F. Redding.....	567,842	Sept. 15	1935	463	76	1670
Vehicle storm-guard.....	S. Norton.....	569,466	Oct. 13	1278	301	77	258
Vehicle-top.....	E. Lenney.....	556,500	Mar. 17	1999	467	74	1536
Vehicle-top adjuster.....	L. C. Sweet.....	565,814	Aug. 11	1578	384	76	929
Vehicle-top bow.....	E. F. Hill.....	557,581	Apr. 7	100	25	75	20
Vehicle-top. Collapsible.....	P. Pellefigues.....	560,068	May 12	1332	298	75	947
Vehicle-top connection.....	D. H. Bucher.....	572,595	Dec. 8	893	216	77	1467
Vehicle. Two-wheeled.....	J. C. F. Dick.....	565,201	Aug. 4	467	112	76	703
Vehicle-washing device.....	J. P. Baird.....	570,890	Nov. 3	863	201	77	801
Vehicle-wheel.....	J. N. Altman.....	563,703	July 7	787	188	76	148
Vehicle-wheel.....	E. Aze.....	573,635	Dec. 22	2793	661	77	1863
Vehicle-wheel.....	F. J. Ball.....	566,556	Aug. 25	2913	711	76	1218
Vehicle-wheel.....	E. J. Birtcherd.....	568,398	Sept. 29	2912	702	76	1881
Vehicle-wheel.....	F. H. Bolte, T. A. Donlevy, and J. R. Connell.....	558,930	Apr. 23	2489	605	75	518
Vehicle-wheel.....	O. M. Bowghner and G. Smith.....	563,646	July 7	685	161	76	129
Vehicle-wheel.....	A. F. Chace.....	570,697	Nov. 3	521	121	77	735
Vehicle-wheel.....	N. D. Coe.....	573,764	Dec. 22	3011	713	77	1903
Vehicle-wheel.....	J. S. Copeland.....	556,004	Mar. 10	902	216	74	1319
Vehicle-wheel.....	J. S. Copeland.....	574,194	Dec. 29	3842	916	77	2067
Vehicle-wheel.....	J. S. Copeland.....	568,112	Sept. 22	2435	584	76	1775
Vehicle-wheel.....	H. C. Hicks.....	562,224	June 16	2047	495	75	1800
Vehicle-wheel.....	A. M. Howard.....	561,892	June 9	1486	358	75	1676
Vehicle-wheel.....	J. W. Jacobs.....	566,760	Sept. 1	76	19	76	1294
Vehicle-wheel.....	J. Lind.....	569,118	Oct. 6	681	159	77	130
Vehicle-wheel.....	S. A. Motheral.....	564,446	July 21	2120	496	76	421
Vehicle-wheel.....	J. F. McCormick.....	566,524	Aug. 25	2866	696	76	1209
Vehicle-wheel.....	A. L. H. Messmer.....	566,618	Aug. 25	2996	731	76	1235
Vehicle-wheel.....	A. Pinover.....	566,869	Sept. 1	223	52	76	1325
Vehicle-wheel.....	J. C. Reuter.....	554,731	Feb. 18	1641	387	74	844
Vehicle-wheel.....	F. Rice.....	573,238	Dec. 15	2026	486	77	1701
Vehicle-wheel.....	P. Richardson.....	558,316	Apr. 14	1424	349	75	227

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Vehicle-wheel.....	J. R. Terry.....	561,738	June 9	1213	287	75	1625
Vehicle-wheel.....	J. White.....	566,704	Aug. 25	3137	767	76	1259
Vehicle-wheel.....	A. J. Wolff.....	556,132	Mar. 10	1131	268	74	1358
Vehicle-wheel.....	A. J. Wolff.....	556,123	Mar. 10	1133	268	74	1358
Vehicle-wheel.....	A. J. Wolff.....	558,124	Mar. 10	1136	268	74	1359
Vehicle-wheel.....	A. J. Wolff.....	556,125	Mar. 10	1139	268	74	1360
Vehicle-wheel.....	B. S. Wood.....	558,890	Apr. 21	2413	588	75	487
Vehicle-wheel.....	F. J. Woods.....	565,198	Aug. 4	464	111	76	702
Vehicle-wheel. Road.....	P. Fyfe.....	558,796	Apr. 21	2254	545	75	456
Vehicle. Wheeled.....	J. J. Kulage.....	573,334	Dec. 15	2208	{ 523 529 }	77	1734
Vehicle wind-screen.....	T. L. Monaghan.....	567,860	Sept. 15	1960	470	76	1676
Vehicle with three or more wheels.....	B. Ljungström.....	561,330	June 2	467	{ 116 117 }	75	1460
Vehicles. Construction and propulsion of.....	J. Gambetta.....	573,214	Dec. 15	1984	477	77	1694
Vehicles. Contact device for electrically-propelled.....	E. B. W. Reichel.....	555,283	Feb. 25	2598	609	74	1038
Vehicles. Detachable mud-guard for.....	I. L. Oakes.....	562,192	June 16	1969	484	75	1791
Vehicles. Device for propelling wheeled.....	F. L'Heureux and G. A. Faneuf.....	566,579	Aug. 25	2943	718	76	1224
Vehicles. Driving mechanism for self-moving.....	A. de Dion and G. T. Bouton.....	562,229	June 16	2153	524	75	1820
Vehicles. Evener for two-horse.....	J. Hook, Jr.....	571,134	Nov. 10	1297	301	77	907
Vehicles. Foot-rest for light driving.....	L. S. Logan.....	555,576	Mar. 3	155	37	74	1159
Vehicles. Front gear for.....	O. Armleder.....	568,828	Oct. 6	193	46	77	39
Vehicles. Sunshade for canopied.....	A. W. Hollingsworth.....	571,443	Nov. 17	1798	429	77	1016
Vehicles. Thorough-brace for.....	O. B. Fuller.....	569,451	Oct. 13	1259	296	77	254
Veil-fastener.....	L. M. Graham.....	554,059	Feb. 4	463	104	74	589
Veil-fastener.....	C. E. Luce.....	567,907	Sept. 15	2023	485	76	1688
Veil-holder.....	M. E. Cartwright.....	561,760	June 9	1256	299	75	1633
Velocipede.....	F. H. Bolte.....	558,928	Apr. 28	2487	604	75	517
Velocipede.....	F. H. Bolte, T. A. Donlevy, and J. R. Connell.....	558,929	Apr. 28	2488	604	75	517
Velocipede.....	F. S. Buckingham.....	564,171	July 14	1661	388	76	325
Velocipede.....	C. Byrne.....	556,733	Mar. 24	2240	524	74	1598
Velocipede.....	J. S. Copeland.....	558,260	Apr. 14	1330	324	75	269
Velocipede.....	E. L. Evens.....	573,456	Dec. 22	2467	585	77	1799
Velocipede.....	W. I. Grubb.....	559,281	Apr. 28	3156	763	75	643
Velocipede.....	T. Hall.....	570,015	Oct. 27	2273	540	77	467
Velocipede.....	B. C. Hicks.....	557,387	Mar. 31	3401	817	74	1837
Velocipede.....	B. C. Hicks.....	557,388	Mar. 31	3403	817	74	1838
Velocipede.....	B. C. Hicks.....	561,710	June 9	1160	276	75	1615
Velocipede.....	C. T. Hoskins and D. Walker.....	564,282	July 21	1846	432	76	371
Velocipede.....	E. Humbrecht.....	571,069	Nov. 10	1159	{ 270 271 }	77	883
Velocipede.....	E. G. Latta.....	555,647	Mar. 3	287	67	74	1182
Velocipede.....	E. G. Latta.....	555,648	Mar. 3	289	67, 68	74	1182
Velocipede.....	H. J. Lawson.....	561,798	June 9	1322	317	75	1644
Velocipede.....	R. S. Lovelace.....	564,797	July 28	2726	648	76	549
Velocipede.....	R. Miehle.....	568,862	Oct. 6	255	60	77	50
Velocipede.....	A. Miller.....	570,761	Nov. 3	631	145	77	754
Velocipede.....	F. T. Millet.....	564,155	July 14	1623	{ 380 381 382 }	76	319
Velocipede.....	N. Newman.....	561,270	June 2	332	83	75	1433
Velocipede.....	A. L. Peirce.....	567,160	Sept. 8	762	178	76	1438
Velocipede-brake.....	G. Baxter.....	564,862	July 28	2835	{ 677 678 }	76	569
Velocipede-brake.....	T. B. Jeffery.....	561,113	June 2	61	16	75	1379
Velocipede brake-lever.....	T. B. Jeffery.....	568,352	Sept. 29	2845	684	76	1868
Velocipede driving mechanism.....	B. Ljungström.....	556,545	Mar. 17	1944	{ 433 434 }	74	1525
Velocipede-forks. Manufacture of heads for.....	A. Clément.....	556,860	Mar. 24	2501	590	74	1647
Velocipede-frame.....	J. S. Copeland.....	562,067	June 16	1796	434	75	1752
Velocipede-frame.....	H. P. Fowler.....	562,074	June 16	1810	437	75	1755
Velocipede-gear.....	C. S. McIntire.....	567,155	Sept. 8	755	176	76	1436
Velocipede-handle.....	H. H. Luscomb.....	569,877	Oct. 20	2031	484	77	410
Velocipede-handle-bar.....	W. S. Brown.....	556,132	Mar. 10	1150	270	74	1362
Velocipede-hub.....	T. V. Handloser.....	553,616	Jan. 28	2025	479	74	423
Velocipede. Ice.....	E. A. Dean.....	564,306	July 21	1880	442	76	378
Velocipede. Ice.....	J. E. Leahan.....	561,405	June 2	607	151	75	1485
Velocipede. Ice.....	G. von Otto.....	554,346	Feb. 11	980	227	74	701
Velocipede. Ice.....	T. H. Paulson.....	559,202	Apr. 28	3005	726	75	617
Velocipede. Ice.....	E. Ward.....	567,526	Sept. 8	1383	333	76	1549
Velocipede lamp-bracket.....	R. C. Whayne.....	571,101	Nov. 10	1247	288	77	896
Velocipede-locking device.....	C. F. R. A. H. and B. L. Bagot.....	564,498	July 21	2197	515	76	435
Velocipede. Marine.....	S. E. Maxon.....	573,828	Dec. 22	3129	746	77	1925
Velocipede. Marine.....	C. I. Rhone.....	562,098	June 16	1845	448	75	1761
Velocipede. Military.....	A. L. Peirce.....	567,162	Sept. 8	764	179	76	1438
Velocipede or other vehicle.....	T. Hann and W. Bromley.....	563,589	July 7	599	139	76	112
Velocipede-pedal.....	R. F. Hall.....	558,557	Apr. 21	1834	446	75	381
Velocipede-pedal.....	A. L. Peirce.....	567,161	Sept. 8	763	178	76	1438
Velocipede. Railway.....	C. N. Teetor.....	569,683	Oct. 20	1698	402	77	351
Velocipede-saddle.....	S. Pattison.....	570,497	Nov. 3	111	27	77	658
Velocipede-seat.....	H. J. Burgess.....	564,588	July 28	2374	558	76	485
Velocipede spring-motor.....	M. J. McDonald.....	567,437	Sept. 1	533	125	76	1383
Velocipede steering-head.....	F. K. Dunn.....	564,741	July 28	2627	626	76	532
Velocipede toe-clip.....	S. L. Ruden.....	557,025	Mar. 24	2759	655	74	1695
Velocipede-wheel.....	C. de Rossetti.....	568,281	Sept. 22	2717	651	76	1829
Velocipede-working mechanism.....	B. Ljungström.....	571,197	Nov. 10	1387	324	77	924
Velocipedes. Adjustable handle-bar for.....	E. E. Hardy.....	558,489	Apr. 21	1735	420	75	361
Velocipedes and hand-cars. Mechanism for propelling railway.....	J. J. Thompson.....	553,083	Jan. 14	1092	265	74	219
Velocipedes. Device for varying the speed of.....	W. T. Harder.....	564,617	July 28	2419	{ 570 571 }	76	494
Velocipedes. Variable-speed gearing for.....	W. T. Harder.....	564,616	July 28	2415	{ 569 570 }	76	493

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr-g	Vol.	Page.
Velocipedes. Varying-speed gear for	B. Woodward	568,394	Sept. 29	2905	699	76	1880
Velvet. Ornamentation of	A. Wissel, L. Girard, and J. Brunier	556,794	Mar. 24	2357		74	1619
Vending apparatus. Coin-controlled	M. E. Fagan	566,390	Aug. 25	2604	{ 636 637 638 }	76	1160
Vending apparatus. Coin-controlled	C. W. Goldsmith	553,459	Jan. 21	1733	414	74	353
Vending device	W. S. Freeman	552,523	Jan. 7	36	10	74	10
Vending device	G. O. Ranson	572,029	Nov. 24	2831	667	77	1927
Vending-instrument	A. W. and A. H. Roovers	553,872	Feb. 4	102	22	74	524
Vending-machine	F. D. Arthur	572,513	Dec. 8	746	178	77	1435
Vending-machine	J. H. Cravens and W. L. McGoodwin	564,871	July 28	2848	{ 682 683 }	76	572
Vending-machine	L. P. Valiquet	562,439	June 23	2413	586	75	1884
Vending-machine	J. A. Williams	566,433	Aug. 25	2690	656	76	1177
Vending-machine. Coin-actuated	J. P. Beretta	563,906	July 14	1175	{ 276 277 }	76	235
Vending-machine. Coin-controlled	C. Burton	572,523	Dec. 8	764	{ 181 182 }	77	1439
Vending-machine. Coin-controlled	W. A. Ferree	557,306	Mar. 31	3260	782	74	1809
Vending-machine. Coin-controlled	W. A. Ferree	567,128	Sept. 8	704	{ 164 165 }	76	1427
Vending-machine. Coin-controlled	C. E. McDowell	563,789	July 14	939	{ 223 224 }	76	192
Vending-machine. Coin-controlled	S. Vail	569,775	Oct. 20	1873	444	77	381
Vending-machine. Coin-controlled	A. Wilson	552,602	Jan. 7	168	46, 47	74	33
Vending-machine. Newspaper	W. B. and J. S. Norris	553,761	Jan. 28	2275	538	74	469
Vending-machines. Coin-detector for automatic	A. Jaeger	564,824	July 28	2769	658	76	557
Vending of newspapers. Slot-machine for automatic	J. A. Rule	557,235	Mar. 31	3136	752	74	1746
Veneer-dish machine	A. W. Ferres	570,088	Oct. 27	2412	{ 570 571 572 }	77	496
Veneer-patterns. Machine for producing	G. B. Walton	558,883	Apr. 21	2399	585	75	485
Veneers. Composition of matter for manufacturing artificial	C. Köster	572,016	Nov. 24	2813		77	1224
Veneers. Machine for manufacturing	L. A. Morrison and J. Larsen	567,153	Sept. 8	749	{ 174 175 176 }	76	1435
Veneering implement	W. E. Brock	568,156	Sept. 22	2510	604	76	1790
Veneering-machine	W. E. Brock	568,159	Sept. 22	2513	605	76	1790
Veneering-machine	W. E. Brock	568,161	Sept. 22	2515	605	76	1791
Veneering-machine	W. E. and A. M. Brock	568,155	Sept. 22	2509	604	76	1790
Veneering-mold	W. E. Brock	568,158	Sept. 22	2512	{ 604 605 }	76	1790
Veneering-tool	W. E. Brock	568,157	Sept. 22	2511	604	76	1790
Veneering-tool	W. E. Brock	568,160	Sept. 22	2514	605	76	1791
Vent. Safety	J. T. Hayden	571,476	Nov. 17	1854	441	77	1026
Vent. Vessel	A. T. H. Brower	553,389	Jan. 21	1628	388	74	333
Ventilating apparatus	G. O. Miller	564,411	July 21	2061	483	76	411
Ventilating apparatus for vehicles, &c.	E. P. Phelps	572,444	Dec. 1	631	149	77	1398
Ventilating grease-traps. System of	S. Vinot	560,335	May 19	1826	415	75	1087
Ventilating system	C. O. Williams	560,054	May 12	1296	291	75	941
Ventilator: See Bedding-ventilator. Car-awning ventilator. Car-ventilator. Chimney-ventilator.							
Ventilator	L. H. Conard and A. R. Collins	555,431	Feb. 25	2901	690	74	1095
Ventilator	A. O'Brien	567,501	Sept. 8	1351	325	76	1543
Ventilator	E. M. Reynolds	557,607	Apr. 7	134	35	75	26
Ventilator	J. H. Riffe	567,361	Sept. 8	1130	271	76	1503
Ventilator and chimney-cowl	W. H. Nash	561,236	June 2	276	69	75	1421
Vertical boiler	W. Hardwick	555,766	Mar. 3	467	111	74	1214
Vertical boiler	A. Patzelt and A. Schöche	564,640	July 28	2460	588	76	501
Vertical boiler	W. O. Webber	556,293	Mar. 10	1478	344	74	1423
Vessel	W. Buergermeister	559,928	May 12	1067	237	75	896
Vessel	C. Odinet	573,690	Dec. 22	2893	684	77	1881
Vessel and propeller therefor	J. Smith	566,423	Aug. 25	2670	{ 652 653 }	76	1173
Vessel-buffer	J. Ciocki	558,482	Apr. 21	1719	416	75	358
Vessel-cleaner	T. Pawlik	565,632	Aug. 11	1254	{ 302 303 }	76	868
Vessel-closure	F. A. Walsh	571,814	Nov. 24	2455	584	77	1157
Vessel construction	G. F. Williams	563,347	July 7	189	45	76	41
Vessel for removal of house refuse and cover for same	M. Witt	552,948	Jan. 14	863	209	74	175
Vessel. Marine	W. R. Bruner	558,671	Apr. 21	2041	492	75	416
Vessel. Marine	W. King	559,717	May 5	613	{ 146 147 }	75	799
Vessel-motor	G. W. Price	568,117	Sept. 22	2444	587	76	1777
Vessel. Navigable	L. O. Smith	558,575	Apr. 21	1871	454	75	386
Vessel. Sailing	W. King	559,718	May 5	614	{ 147 148 }	75	800
Vessel. Submarine	L. Gathmann	563,714	July 7	804	192	76	151
Vessel with temperature-isolating walls	A. Rothenbach	565,508	Aug. 11	1045	{ 250 251 }	76	829
Vessels. Air and light port for marine	W. K. MacKenzie and C. Chamberlain	552,536	Jan. 7	57	17	74	14
Vessels. Apparatus for raising sunken	I. E. and W. L. Chapman, T. Kivlin, and E. M. Stoddard	563,565	July 7	561	{ 129 130 }	76	105
Vessels. Apparatus for raising sunken	C. Cummings	563,750	July 14	869	207	76	178
Vessels. Apparatus for raising sunken	F. Guttenberg	567,744	Sept. 15	1759	422	76	1637
Vessels. Apparatus for raising sunken	A. G. Midford	572,364	Dec. 1	493	{ 115 116 }	77	1372
Vessels. Apparatus for raising sunken	A. H. Wolf	569,442	Oct. 13	1245	293	77	252
Vessels, &c. Automatic means for closing leaks in marine	H. Bricard	564,144	July 14	1598	374	76	315
Vessels. Coating water-bottoms of	A. McDougall	563,590	Jan. 28	1985	470	74	515

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Vessels. Construction of.....	H. C. Ashlin.....	561,472	June 2	732	180	75	1508
Vessels. Construction of.....	R. A. Roberts.....	573,297	Dec. 15	2142	514	77	1722
Vessels, &c. Construction of roadways for.....	H. See.....	563,074	June 30	3568	856	75	2125
Vessels. Device for indicating the trim of.....	H. B. Nickerson and G. W. Eldridge.....	514,449	July 21	2124	497	76	422
Vessels. Device for preventing injury to colliding.....	W. D. F. H. Trost.....	565,614	Aug. 11	1223	295	76	862
Vessels. Order-transmitting device for.....	W. Chadburn.....	556,332	Mar. 17	1548	362	74	1451
Vessels, receptacles, &c. Material for protecting.....	P. Mercier.....	561,905	June 9	1504	364		
Vessels. System for electroplating.....	J. H. George.....	565,975	Aug. 18	1900	461	76	1010
Vest.....	F. H. Sprague.....	571,543	Nov. 17	1981	471		
Veterinary smoke-injector.....	T. H. Pendergast and B. H. Bueter.....	570,332	Oct. 27	2891	686	77	584
Veterinary speculum.....	M. McNalley.....	555,390	Feb. 25	2822	664	74	1080
Veterinary tooth-cutter.....	T. J. Pence.....	571,283	Nov. 10	1534	363	77	952
Vial for soluble tablets.....	J. N. Moehn.....	567,488	Sept. 8	1330	321		
Violin.....	W. McKenzie and W. W. Rising.....	567,607	Sept. 15	1531	368	76	1592
Violin.....	E. A. Thompson.....	552,555	Jan. 7	92	25	74	19
Violin-bow.....	J. D. Loppentien.....	564,091	July 14	1510	353	76	297
Violin-bow.....	W. J. Murdock.....	558,700	Apr. 21	2091	505	75	426
Violin-bow.....	P. C. Nelson.....	564,448	July 21	2123	496	76	422
Violin-bow.....	E. O. Spitzner.....	565,395	Aug. 4	806	191	76	766
Violin chin rest or holder.....	F. J. Strong.....	560,053	May 12	1295	291	75	940
Violin-players. Correct-position attainer for.....	N. Schenk.....	556,216	Mar. 10	1304	305	74	1390
Violin shoulder rest or support.....	H. O. Peabody.....	566,696	Aug. 25	3118	761	76	1257
Violin-tuning peg.....	G. B. Durkee.....	554,057	Feb. 4	461	103	74	5-9
Vise.....	F. H. Bolte, T. A. Donlevy, and J. R. Connell.....	565,425	Aug. 11	859	203	76	795
Vise.....	G. A. Gumphert.....	561,663	June 9	1068	258	75	1597
Vise.....	C. J. Jackson.....	563,040	June 30	3485	837	75	2110
Vise.....	J. M. Kennedy.....	568,353	Sept. 29	2846	684	76	1868
Vise.....	E. and J. Klingenberg.....	573,886	Dec. 29	3239	771	77	1959
Vise.....	D. C. and J. Sabourin.....	570,340	Oct. 27	2903	689	77	587
Vise.....	W. Thompson.....	557,453	Mar. 31	3510	839	74	1858
Vise.....	W. and W. A. Thompson.....	557,452	Mar. 31	3508	838	74	1858
Vise.....	J. M. Van Meter.....	573,056	Dec. 15	1706	409		
Vise.....	A. White.....	557,090	Mar. 24	2857	683	74	1716
Vise and drill. Combined.....	P. J. Harrah.....	566,170	Aug. 18	2215	539	76	1070
Vise. Bench.....	J. W. McIntyre.....	568,364	Sept. 29	2860	688	76	1671
Vise. Bench.....	J. F. Parker and C. M. Bennett.....	572,367	Dec. 1	499	117	77	1373
Vise. Blacksmith's.....	H. J. Boyce.....	558,927	Apr. 28	2486	604		
Vise. Compound-lever.....	W. P. Bliss.....	567,331	Sept. 8	1071	255	76	1492
Vise. Foot.....	E. B. Newnam.....	556,433	Mar. 17	1742	405		
Vise for holding pipes.....	C. T. Thompson.....	566,246	Aug. 13	2335	572	76	1094
Vise. Hand.....	G. H. Reissig.....	556,163	Mar. 10	1214	284	74	1374
Vise. Plumber's.....	S. R. Parks.....	568,543	Sept. 29	3189	768	76	1931
Vises. Clamping-jaw for.....	R. M. Reilly.....	569,057	Oct. 6	589	135	77	113
Volatilizer.....	J. H. Valentine.....	571,811	Nov. 24	2448	583	77	1156
Voltaic battery.....	S. R. V. Robinson.....	554,427	Feb. 11	1121	262	74	729
Voltaic battery. Secondary.....	W. A. B. Buckland.....	556,660	Mar. 17	2117	494	74	1558
Voltmeter.....	A. A. Simonds.....	572,380	Dec. 1	539	127	77	1381
Vote-recording machine.....	W. A. Swaren.....	569,682	Oct. 20	1688	400	77	350
Voting apparatus.....	C. F. Darnell.....	563,361	July 7	218	49		
Voting-booth.....	F. L. Fairbank and C. B. Langley.....	555,568	Mar. 3	142	34	74	1156
Voting-machine.....	A. O. Abbott.....	560,015	May 12	1219	273	75	926
Voting-machine.....	S. Aronson.....	566,439	Aug. 25	2699	658		
Voting-machine.....	S. Aronson and F. Lambert.....	566,440	Aug. 25	2704	659	76	1179
Voting-machine.....	D. and E. H. Davis.....	563,141	June 30	3674	879	75	2145
Voting-machine.....	W. H. Honiss.....	561,399	June 2	590	143		
Voting-machine.....	F. Lambert and S. Aronson.....	562,836	June 30	3116	754	75	2034
Voting-machine.....	L. Y. McConnell.....	570,812	Nov. 3	706	161		
Voting-machine.....	G. J. Sweeney.....	552,675	Jan. 7	306	83	74	60
Voting-machine. Ballot-printing.....	A. O. Abbott.....	567,572	Sept. 15	1471	352	76	1581
Voting-machine recording mechanism.....	F. Lambert and S. Aronson.....	566,459	Aug. 25	2767	673	76	1190
Voucher instrument for use between principal and agent.....	D. P. Fackler.....	552,635	Jan. 7	224	62	74	44
Vulcanizers. Oil-flame regulator for.....	G. P. Snow.....	556,701	Mar. 17	2174	508	74	1569
Vulcanizers. Oil-flame regulator for.....	G. B. Snow.....	556,702	Mar. 17	2176	508	74	1569
Vulcanizing apparatus.....	P. J. Davis.....	564,129	Sept. 22	2463	591	76	1780
Waffle-iron.....	R. O. Bingham and B. P. Wagner.....	569,444	Oct. 13	1250	293	77	253
Waffle-iron.....	E. F. Nutt.....	569,227	Oct. 13	883	210	77	184
Wagon.....	I. F. Brown.....	567,961	Sept. 22	2131	514	76	1722
Wagon.....	F. Fischer.....	570,467	Nov. 3	47	11	77	647
Wagon.....	W. O. Shadbolt.....	561,822	June 9	1365	328	75	1652
Wagon.....	H. Steeck.....	558,003	Apr. 7	876	221	75	164
Wagon.....	W. B. Stover.....	562,433	June 23	2397	582	75	1832
Wagon.....	W. B. Stover.....	562,434	June 23	2399	583	75	1882
Wagon and velocipede. Combined child's.....	D. F. Long and B. F. Shull.....	564,796	July 28	2724	647	76	549
Wagon-bed hoist.....	T. H. Tabor.....	557,450	Mar. 31	3506	838		
Wagon-bed hoister.....	M. Marrs.....	553,288	Jan. 21	1467	352	74	303
Wagon-bed scoop-board.....	J. E. Bering.....	518,472	Apr. 21	1705	412	75	356
Wagon-body.....	T. Geisel.....	556,345	Mar. 17	1568	367	74	1454

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wagon-body.....	L. Hough.....	560,798	May 26	2680	616	75	1260
Wagon-body.....	J. Muir.....	565,294	Aug. 4	640	152	76	734
Wagon-body brace.....	H. W. Pogue.....	565,177	Aug. 4	428	103	76	696
Wagon-body. Dumping.....	H. D. Lorash.....	569,108	Oct. 6	669	155 156 295 296	77	128
Wagon-body. Folding.....	J. M. Fischer.....	569,450	Oct. 13	1258	295 296	77	254
Wagon-body lifter.....	E. J. Strong.....	564,459	July 21	2144	501	76	425
Wagon-body lifter.....	E. J. Strong.....	573,719	Dec. 22	2945	696	77	1890
Wagon-bolster spring.....	T. G. Mandt.....	563,497	July 7	443	102	76	85
Wagon-box iron.....	C. L. Coston and E. W. Broadhead.....	566,062	Aug. 18	2036	494	76	1037
Wagon-brake.....	H. A. Baxter.....	562,348	June 16	2265	549	75	1840
Wagon-brake.....	W. B. Brown.....	567,375	Sept. 8	1149	276	76	1506
Wagon-brake.....	T. J. Farrell and W. Clancy.....	573,585	Dec. 22	2679	637	77	1840
Wagon-brake.....	P. H. Lambert.....	559,136	Apr. 28	2885	695	75	593
Wagon-brake.....	G. F. Moors.....	570,138	Oct. 27	2493	591	77	510
Wagon-brake.....	W. Pendley.....	570,333	Oct. 27	2892	687	77	585
Wagon-brake.....	A. Pirch.....	557,699	Apr. 7	310	74	75	59
Wagon-brake.....	A. Powers and V. Furstenfeld.....	560,069	May 12	1333	299	75	947
Wagon-brake.....	J. A. Pryor.....	565,365	Aug. 4	755	180	76	757
Wagon-brake.....	W. S. Reynolds and M. D. Shipman.....	562,915	June 30	3256	786	75	2062
Wagon-brake.....	D. Rhoades.....	553,018	Jan. 14	968	234 235	74	195
Wagon-brake.....	W. N. Secord.....	558,990	Apr. 28	2591	630	75	537
Wagon-brake.....	J. F. Shepard.....	553,138	Jan. 14	1180	286	74	237
Wagon-brake.....	W. J. Stephenson.....	568,633	Sept. 29	3357	804 805	76	1962
Wagon-brake.....	L. S. Wheeler.....	553,085	Jan. 14	1096	266	74	220
Wagon-brake. Automatic.....	J. S. Cochran.....	573,446	Dec. 22	2446	581	77	1795
Wagon-brake. Automatic.....	C. P. Hartman and J. H. Strouse.....	556,673	Mar. 17	2133	497	74	1561
Wagon-brake. Automatic.....	G. J. Herman, Jr.....	552,959	Jan. 14	879	213	74	178
Wagon-brake. Automatic.....	G. Larson.....	565,469	Aug. 11	942	224	76	812
Wagon-brake. Hay.....	J. Hofmann, Jr.....	552,708	Jan. 7	363	95	74	71
Wagon. Child's coasting.....	C. L. Whipple.....	556,294	Mar. 10	1479	344	74	1423
Wagon. Coal.....	G. B. Marx.....	558,590	Apr. 21	1897	459	75	391
Wagon. Delivery.....	J. W. Akerman.....	571,324	Nov. 17	1607	382	77	981
Wagon. Delivery.....	L. E. Bessette.....	555,423	Feb. 25	2887	666 687	74	1092
Wagon-dump.....	J. B. and A. R. Courmyer.....	572,630	Dec. 8	955	231	77	1480
Wagon. Dump.....	G. Vaughan.....	556,596	Mar. 17	2023	472	74	1539
Wagon. Dumping.....	R. Anderson and F. O. P. Shutt.....	561,471	June 2	731	1-0	75	1508
Wagon. Dumping.....	J. M. Blake.....	566,492	Aug. 25	2816	686 687	76	1199
Wagon. Dumping.....	W. Haywood.....	557,807	Apr. 7	511	123	75	97
Wagon. Dumping.....	W. Haywood.....	564,995	Aug. 4	64	14, 15	76	629
Wagon. Dumping.....	T. Hill.....	561,398	June 2	589	148	75	1483
Wagon. Dumping.....	J. H. Jack.....	572,344	Dec. 1	450	106	77	1364
Wagon. Dumping.....	M. Killackey and T. Madden.....	565,545	Aug. 11	1098	265 266	76	840
Wagon. Dumping.....	D. S. Lane.....	566,194	Aug. 18	2257	552	76	1078
Wagon. Dumping.....	E. L. Layton.....	573,967	Dec. 29	3430	822	77	1903
Wagon. Dumping.....	J. Neumann.....	559,398	May 5	90	19	75	698
Wagon. Dumping.....	C. E. Plummer.....	561,432	June 2	660	162	75	1495
Wagon. Dumping.....	M. L. Senderling.....	565,236	Aug. 4	563	132	76	718
Wagon. Dumping.....	J. A. B. Smith.....	558,748	Apr. 21	2166	522	75	441
Wagon. Folding.....	V. Krotzinger.....	561,796	June 9	1320	316	75	1644
Wagon for training horses.....	F. A. Clark.....	566,560	Aug. 25	2917	712	76	1219
Wagon-gear.....	J. Parent.....	554,534	Feb. 11	1298	305	74	762
Wagon-gear.....	H. J. Phelps.....	560,280	May 19	1731	393	75	1072
Wagon-jack.....	J. J. Adgate.....	571,078	Nov. 10	1164	277 278	77	887
Wagon-jack.....	A. M. Beard.....	569,080	Oct. 6	624	142	77	119
Wagon-jack.....	J. A. Staples.....	560,048	May 12	1285	2-9	75	939
Wagon-jack.....	B. E. Stevenson.....	557,167	Mar. 31	2995	714	74	1764
Wagon-jack.....	W. R. Wilcox.....	568,468	Sept. 29	3033	728	76	1903
Wagon. Lumber.....	B. F. Sweet.....	556,784	Mar. 24	2342	552	74	1617
Wagon or cart. Dumping.....	J. S. Erickson.....	557,570	Apr. 7	78	20	75	16
Wagon or crate. Covered.....	M. L. Senderling.....	574,078	Dec. 29	3589	857	77	2023
Wagon-reaches. Antifriction-roller for.....	P. Diroll.....	563,576	July 7	580	135	76	109
Wagon-rod fastening device.....	T. B. Pell.....	565,790	Aug. 11	1537	374	76	922
Wagon running-gear.....	J. McCallum.....	553,290	Jan. 21	1469	353	74	303
Wagon-seat attachment.....	C. F. Deplanty and E. E. Wilson.....	557,773	Apr. 7	452	106	75	85
Wagon-seat lock.....	J. G. Romenesko.....	565,035	Aug. 4	130	31	76	642
Wagon. Self-measuring oil.....	A. Bowser.....	561,650	June 9	1046	253	75	1593
Wagon, sleigh, or cabinet. Convertible.....	J. G. Weber.....	565,310	Aug. 4	669	161	76	739
Wagon. Sliding-body dump.....	M. L. Senderling.....	565,237	Aug. 4	564	132	76	719
Wagon spring draft attachment.....	H. Barber.....	559,883	May 12	982	219	75	881
Wagon-standard.....	W. F. Dill.....	571,514	Nov. 17	1927	460	77	1039
Wagon-standard.....	E. Foutrel.....	573,458	Dec. 22	2470	585	77	1800
Wagon-standard.....	H. Markussen.....	553,171	Jan. 14	1239	301	74	247
Wagon. Stone.....	D. N. Butterfield.....	555,673	Mar. 3	331	76	74	1189
Wagon. Street-sprinkling.....	W. A. Koneman.....	560,454	May 26	2789	639	75	1282
Wagon. Supply.....	J. E. Walsh.....	562,162	June 16	1949	473	75	1781
Wagon top-board fastener.....	J. M. Haines.....	567,591	Sept. 15	1507	363	76	1588
Wagon-wheel.....	W. S. O'Brien.....	569,467	Oct. 13	1260	301	77	258
Wagon wheel and axle.....	J. Fannen.....	561,546	June 2	867	208	75	1534
Wagon-wrench.....	E. A. Bayer, F. Nuess, and F. Schaf- fetzl.....	567,561	Sept. 8	1442	347	76	1560
Wagon-wrench.....	G. E. Wood.....	558,246	Apr. 14	1304	318	75	264
Wagons. Power-transmitter for road.....	E. Prouty.....	570,501	Nov. 3	119	29	77	660
Waist.....	W. H. Burns.....	565,959	Aug. 18	1855	451	76	1001
Waist.....	Z. Demarest.....	559,793	May 12	769	185	75	841
Waist.....	T. B. Fitzpatrick.....	557,792	Apr. 7	485	116	75	92

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g	Vol.	Page.
Waist and skirt pin and belt slide and keeper. Combined	C. and E. J. Deitsch	574,084	Dec. 29	3598	860	77	2025
Waist and skirt supporter	J. M. Anck	560,337	May 19	1828	416	75	1088
Waistband	H. Green	553,646	Jan. 28	2083	491	74	432
Waistband	H. Green	553,647	Jan. 28	2084	491	74	432
Waistband. Elastic	J. B. Fautoute	569,411	Oct. 13	1203	283	77	244
Waistbands, &c. Loop-securing device for	H. Green	553,645	Jan. 28	2081	491	74	432
Waistband for nether garments	S. B. and F. F. Lewis	570,317	Oct. 27	2869	680	77	580
Waistband-support	C. V. Richards	567,613	Sept. 15	1537	372	76	1593
Walking-beam attachment	A. Epert	556,340	Mar. 17	1562	365	74	1453
Walking-stick and umbrella. Combined	E. E. Greene	572,983	Dec. 15	1579	379	77	1617
Wall or house construction	W. H. Denney	553,483	Jan. 21	1785	425	74	362
Wall or partition	G. Liebau	564,205	July 21	1716	402	76	349
Wall-plate and pipe connection	W. S. Johnson	567,029	Sept. 1	518	122	76	1380
Wall-rack	A. T. Demorest	570,384	Oct. 27	2975	705	77	600
Walls, &c. Construction of supports for	J. Breuchaud	563,130	June 30	3660	876	75	2142
Walls, &c. Construction of supports for	J. Breuchaud	570,370	Oct. 27	2953	701	77	396
Walls. Construction of supports for building	R. S. Gillespie	570,792	Nov. 3	676	155	77	763
Wardrobe	F. E. Pollard	554,397	Feb. 11	1057	247	74	716
Wardrobe. Traveling	P. A. Shanklin	565,305	Aug. 4	660	158	76	737
Warming and ventilating apparatus	M. H. Cooley	553,070	Jan. 28	2116	501	74	438
Warp-beaming machine	R. Atherton	560,769	May 26	2632	604	75	1251
Warp-beaming machine	J. U. Baker	556,172	Mar. 10	1235	286	74	1376
Warp-beaming machine	A. Scheid and R. Atherton	561,344	June 2	501	126	75	1466
Warp-compressor	D. McTaggart	573,346	Dec. 15	2232	533	77	1738
Warp-drying machine	F. Turnbull	574,289	Dec. 29	4018	954	77	2100
Warp-eizing machine	A. Woodman	557,468	Mar. 31	3538	846	74	1863
Warping machine. Skein	W. P. Kirkpatrick	555,646	Mar. 3	284	66, 67	74	1181
Washbench and ironing-table. Combined	E. D. Norton	557,867	Apr. 7	607	144	75	115
Washboard	W. B. Cannon	557,966	Apr. 7	788	188	75	148
Washboard	D. R. Canny	557,187	Mar. 31	3038	727	74	1770
Washboard	J. A. Carroll and G. Carlson	566,890	Sept. 1	261	61	76	1332
Washboard	M. S. Gurnes and G. H. Zimmerman	554,177	Feb. 4	692	156	74	632
Washboard	H. J. Gilbert	557,199	Mar. 31	3071	736	74	1774
Washboard	P. J. Joecken	556,541	Mar. 17	1938	452	74	1524
Washboard	P. J. Joecken	556,542	Mar. 17	1940	452	74	1524
Washboard	F. J. Merriam and J. A. W. Sears	569,879	Oct. 20	2035	485	77	410
Washboard	N. S. Monroe	571,574	Nov. 17	2029	483	77	1057
Washboard	M. Peck	566,933	Sept. 1	341	79	76	1347
Washboard	J. T. Sargent	556,557	Mar. 17	1960	457	74	1528
Washboard	J. T. Sargent	556,558	Mar. 17	1961	457	74	1529
Washboard	J. T. Sargent	556,560	Mar. 17	1963	459	74	1529
Washboard	J. T. Sargent	556,561	Mar. 17	1965	459	74	1529
Washboard	J. T. Sargent and A. Weiss	556,559	Mar. 17	1962	458	74	1529
Washboard	F. A. Schultz	553,136	Jan. 14	1177	286	74	236
Washboard	A. Weiss	556,569	Mar. 17	1977	461	74	1532
Washboard	A. Weiss	556,570	Mar. 17	1980	462	74	1532
Washboard	R. B. Williams	568,392	Sept. 29	2903	699	76	1880
Washboard-holder	J. A. W. Sears	554,091	Feb. 4	529	118	74	601
Washboiler	L. W. Boynton	564,777	July 28	2697	641	76	544
Washboiler attachment	J. N. Moehn	560,594	May 19	2268	519	75	1167
Washboiler attachment	I. H. Winget	563,349	July 7	202	45	76	41
Washer:							
See Barrel-washer.	Gold-washer.						
Bottle-washer.	Ore-washer.						
Coal-washer.	Tire-tightening washer.						
Coal and ore washer.	Tool-post washer.						
Dish-washer.	Window or buggy washer.						
Washer	H. H. Unz	554,099	Feb. 4	548	122	74	604
Washer	J. M. White	554,431	Feb. 11	1133	264	74	731
Washing and starching machine	S. Barrett	567,574	Sept. 15	1476	353	76	1582
Washing and wringing machine. Combined	M. Killeen	552,842	Jan. 7	642	158	74	121
Washing apparatus. Portable	M. Frisch	564,878	July 28	2859	685	76	574
Washing device	S. G. Hathaway	559,977	May 12	1151	257	75	915
Washing fibrous material. Machine for	W. Watson	565,581	Aug. 11	1167	280	76	852
Washing-machine	W. Acheson	570,360	Oct. 27	2933	697	77	592
Washing-machine	J. A. H. Adolph	555,842	Mar. 3	589	141	74	1237
Washing-machine	F. Alderman	566,370	Aug. 25	2568	627	76	1153
Washing-machine	E. W. and A. W. Allen	555,063	Feb. 25	2247	537	74	971
Washing-machine	I. H. Arnold, J. F. Lillard, and F. Sterzing	566,885	Sept. 1	252	58	76	1330
Washing-machine	J. Bany	559,659	May 5	527	121	75	783
Washing-machine	B. Beland	555,844	Mar. 3	592	141	74	1238
Washing-machine	H. G. Belcher	569,740	Oct. 20	1804	428	77	369
Washing-machine	H. F. Brammer and M. J. Kremer	570,152	Oct. 27	2521	597	77	516
Washing-machine	L. L. Chase	564,003	July 14	1348	314	76	266
Washing-machine	G. R. Chesnut	567,703	Sept. 15	1690	407	76	1624
Washing-machine	A. H. B. Dean	572,337	Dec. 1	441	104	77	1363
Washing-machine	C. Dietz	569,619	Oct. 20	1572	370	77	328
Washing-machine	J. H. Estes	571,304	Nov. 10	1570	373	77	960
Washing-machine	S. Fleming	561,981	June 16	1636	398	75	1724
Washing-machine	W. S. Foster	571,758	Nov. 24	2362	564	77	1139
Washing-machine	L. Grondahl	563,373	July 7	237	53	76	48

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Washing-machine.	J. M. Grover	571,475	Nov. 17	1852	441	77	1026
Washing-machine.	H. M. Hamilton	563,484	July 7	425	98	76	82
Washing-machine.	J. S. Hilyard	570,853	Nov. 3	791	182	77	785
Washing-machine.	J. Hofmann	569,379	Oct. 13	1143	272	77	234
Washing-machine.	C. Kreutziger	559,855	May 12	924	205	75	870
Washing-machine.	J. Lachance	571,671	Nov. 17	2185	526	77	1086
Washing-machine.	J. H. Lamson	555,012	Feb. 18	2143	510	74	937
Washing-machine.	J. H. Lamson	573,336	Dec. 15	2217	530	77	1735
Washing-machine.	Z. M. Lindley	568,361	Sept. 29	2856	687	76	1871
Washing-machine.	W. R. McPherron	570,709	Nov. 3	538	125	77	738
Washing-machine.	A. Mulder	558,697	Apr. 21	2086	504	75	426
Washing-machine.	H. J. Paarmann	573,349	Dec. 15	2237	535	77	1739
Washing-machine.	W. Powe	562,240	June 16	2070	502	75	1804
Washing-machine.	F. Rock, Jr.	559,811	May 12	824	193	75	852
Washing-machine.	J. H. Stewart	569,141	Oct. 6	728	171	77	138
Washing-machine.	J. W. Sunderland	570,190	Oct. 27	2586	{ 614 615 }	77	528
Washing-machine.	W. Thornton	559,507	May 5	272	65	75	735
Washing-machine.	H. Treichler	555,591	Mar. 3	179	42	74	1163
Washing-machine.	W. A. Wallingford	567,368	Sept. 8	1140	273	76	1504
Washing-machine.	L. B. Walters and K. Cadwalader	554,553	Feb. 11	1325	310	74	767
Washing-machine.	J. L. West	571,501	Nov. 17	1906	455	77	1035
Washing-machine.	H. W. Wichman	552,736	Jan. 7	426	108	74	82
Washing-machine.	J. C. Wilson	571,819	Nov. 24	2464	585	77	1158
Washing-machine bearing and journal	C. Dietz	572,745	Dec. 8	1169	{ 280 281 }	77	1520
Washing-machine. Fiber-	F. G. Sargent	561,180	June 2	195	48	75	1404
Washing-machine for piece goods.	A. Turkington	573,936	Dec. 29	3321	793	77	1975
Washing-machine-operating mechanism	H. Bendixen	553,217	Jan. 14	1324	321	74	262
Washing-machines. Automatic water-regulator for	E. Wilson	567,729	Sept. 15	1735	{ 415 416 }	76	1632
Washing-machines. Gearing for	S. M. Windmiller and L. Holford	563,824	Oct. 6	189	45	77	38
Washing-machines. Roller-adjusting mechanism for	J. L. and M. Jefferson	559,710	May 5	600	{ 143 144 501 502 }	75	797
Washing piece goods. Apparatus for	C. L. Jackson and E. W. Hunt	558,690	Apr. 21	2074	{ 501 502 812 813 }	75	423
Washing, scrubbing, and cleaning floors. Machine for	J. E. and W. J. Gee	557,377	Mar. 31	3383	{ 812 813 }	74	1834
Washing utensil	M. M. Davis	562,459	June 23	2446	594	75	1890
Washstand appliance	R. Parrish	561,025	May 26	3070	708	75	1335
Washtub	W. B. Bolton	563,908	July 14	1181	278	76	236
Washtub	P. Connolly	561,493	June 2	765	{ 187 188 }	75	1514
Washtub	J. Conway	572,597	Dec. 8	897	217	77	1468
Washtub cover. Portable.	R. F. Maiden	558,824	Apr. 21	2294	557	75	464
Washtubs. Manufacture of crockery	W. D. Stewart	560,409	May 12	1286	{ 289 290 }	75	939
Waste. Process of and apparatus for cleaning	C. F. Hood	567,316	Sept. 8	1048	250	76	1488
Watch	L. Riche	567,510	Sept. 8	1364	328	76	1546
Watch-balances and hair-springs. Recording mechanism for vibrators for testing	G. E. Hunter	566,177	Aug. 18	2228	{ 543 544 545 }	76	1072
Watch-balances. Mechanism for truing	G. E. Hunter	558,811	Apr. 21	2277	{ 552 553 }	75	460
Watch-bow fastener	E. H. Hunter	553,341	Jan. 21	1552	370	74	318
Watch-bow fastener	F. Mink	553,589	Jan. 28	1984	470	74	415
Watch-bow fastener	F. Mink	560,813	May 26	2700	620	75	1265
Watch-bow fastener	I. Smith	557,034	Mar. 24	2772	658	74	1698
Watch-bow pliers.	H. W. Wildt	562,998	June 30	3419	822	75	2097
Watch-carrier.	W. E. Porter	572,368	Dec. 1	501	118	77	1373
Watch cannon-pinion	C. W. Hoen	558,558	Apr. 21	1834	446	75	381
Watchcase-pendant	F. Moofield	553,760	Jan. 28	2274	538	74	469
Watchcase-pendant.	H. T. Smith	568,375	Sept. 29	2879	692	76	1875
Watchcase-pendants. Mechanism for making.	F. Mink and N. Moore	561,942	June 9	1568	380	75	1691
Watchcase-spring.	F. Mink	560,812	May 26	2699	620	75	1265
Watchcase-spring.	C. Nobs, Jr.	569,297	Oct. 13	1003	240	77	207
Watch-crown chuck	G. A. Scholer	553,265	Jan. 21	1412	343	74	294
Watch-dial fastener.	D. H. Church	556,303	Mar. 10	1497	347	74	1426
Watch-dial-fastening device.	G. E. Hart	554,511	Feb. 11	1264	296	74	755
Watch-guard. Safety	R. Warsaw	567,425	Sept. 8	1229	295	76	1520
Watch hair-spring	W. W. Griscom	570,394	Oct. 27	3000	710	77	605
Watch-holder for conductors, motormen, &c	R. S. Wiles and H. A. Groux	563,534	July 7	504	117	76	96
Watch-mainsprings. Manufacture of	F. Purdy	557,021	Mar. 24	2753	653	74	1694
Watchmaker's-lathe attachment	I. L. Grady	556,182	Mar. 10	1245	291	74	1379
Watchmaker's roller-remover	K. H. Bare	560,461	May 19	2054	468	75	1128
Watch-movement box.	J. Leukart and W. W. Owen	552,534	Jan. 7	53	16	74	13
Watch-movement box.	C. H. Smith	557,444	Mar. 31	3498	836	74	1856
Watch-movement holder.	C. M. Evans	562,516	June 23	2528	{ 614 615 }	75	1906
Watch-regulator	M. Sporleder	569,844	Oct. 20	1931	471	77	401
Watch steady-pin.	H. J. Cain	559,512	May 5	278	66	75	736
Watch stem fastener	E. Flotron	560,898	May 26	2874	659	75	1298
Watch-stem fastener	F. Köhl	566,586	Aug. 25	2952	720	76	1226
Watch. Stem winding and setting	G. A. and J. E. Lockwood	563,777	July 14	917	219	76	188
Watch. Stem winding and setting	W. E. Porter	567,409	Sept. 8	1204	288	76	1517
Watch. Stem winding and setting	J. T. Thim	567,207	Sept. 8	824	{ 195 196 }	76	1449
Watch. Stop.	R. G. Jennings and E. Kuhn	558,958	Apr. 28	2537	615	75	527
Watch. Stop.	H. A. Lugin	552,715	Jan. 7	371	97.98	74	72
Watches. Mailing or shipping package for	E. A. Marsh	555,322	Feb. 25	2711	635	74	1060
Water-alarm for tanks or boilers.	G. V. Sheffield	566,235	Aug. 18	2320	568	76	1091
Water. Apparatus for procuring pure	J. McCabe	565,686	Aug. 11	1354	329	76	888
Water, &c. Apparatus for raising	F. H. Merrill	558,880	Apr. 21	2393	{ 583 584 }	75	483

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Water. Apparatus for rapid heating and purification of	J. E. Prunty	555,019	Feb. 18	2157	514	74	939
Water. Apparatus for using compressed air to elevate	S. W. Titus	566,102	Aug. 18	2108	514	76	1050
Water-bandage	W. H. Welch	557,244	Mar. 31	3160	757	74	1790
Water-carrier	J. A. Bohon	571,640	Nov. 17	2139	513	77	1072
Water-closet	D. D. Buick	558,931	Apr. 28	2490	605	75	518
Water-closet	D. D. Buick	558,932	Apr. 28	2491	605	75	518
Water-closet	W. G. Coles and F. A. Barker	570,543	Nov. 3	194	52	77	674
Water-closet	J. C. Febiger, Jr	556,178	Mar. 10	1236	289	74	1378
Water-closet	A. D. Fowler	567,120	Sept. 1	689	160	76	1412
Water-closet	D. T. Kenney	566,771	Sept. 1	63	16, 17	76	1292
Water-closet	M. L. McGuire	569,383	Oct. 13	1149	273	77	235
Water-closet	J. G. Morrison	563,397	July 7	271	61	76	54
Water-closet	C. H. Muckenhirn	559,304	Apr. 28	3190	771	75	650
Water-closet	A. O'Brien	567,498	Sept. 8	1347	324	76	1543
Water-closet	J. C. Reed	571,244	Nov. 10	1471	345	77	940
Water-closet	W. Simmonds and C. Linegar	568,881	Oct. 6	285	66	77	55
Water-closet	D. S. Wallace	558,130	Apr. 14	1108	271	75	227
Water-closet and hinge therefor	W. Bunting, Jr.	559,478	May 5	224	50	75	726
Water-closet and urinal	S. W. Lewis	555,455	Feb. 25	2951	702	74	1104
Water-closet apparatus	C. H. Moore	574,339	Dec. 29	4100	974	77	2116
Water-closet bowl	L. M. Rumsey	553,790	Jan. 28	2312	548	74	476
Water-closet bowls. Flushing	E. Douglas	562,951	June 30	3338	802	75	2081
Water-closet bowls, &c. Joint-coupling for	C. A. Blessing	557,645	Apr. 7	225	55	75	42
Water-closet bowls. Means for attaching seats and lids to	J. Maddock	564,438	July 21	2108	493	76	419
Water-closet bowls. Pipe connection for	C. R. Schmidt	556,215	Mar. 10	1303	304	74	1390
Water-closet bowls. Venting device for	C. H. Cook	570,982	Nov. 10	1010	235	77	855
Water-closet cistern	D. T. Kenney	566,770	Sept. 1	62	16	76	1292
Water-closet connection	J. J. Ricketts	566,470	Aug. 25	2785	677	76	1193
Water-closet coupling	J. Totham	568,996	Oct. 6	491	111	77	94
Water-closet flush-tank	M. L. Mitchell	560,912	May 26	2895	664	75	1302
Water-closet flushing apparatus	J. H. Devlin	562,174	June 16	1965	476	75	1785
Water-closet flushing attachment	P. J. Madden	569,341	Oct. 13	1081	257	77	223
Water-closet flushing attachment	P. J. Madden	569,559	Oct. 13	1453	343	77	290
Water-closet flushing attachment	P. J. Madden	569,560	Oct. 13	1455	344	77	290
Water-closet flushing attachment	P. J. Madden	574,367	Dec. 29	4142	984	77	2123
Water-closet flushing attachment	P. J. Madden	566,990	Sept. 1	455	105	76	1367
Water-closet flushing device	W. R. Baker	555,798	Mar. 3	516	125	74	1223
Water-closet flushing device	N. P. Emmet	573,582	Dec. 22	2674	634	77	1839
Water-closet flushing-tank	J. P. Locke	565,997	Aug. 18	1940	469	76	1019
Water-closet joint	E. L. Davis	571,471	Nov. 17	1844	439	77	1024
Water-closet pipe connection	A. Loring	569,790	Oct. 20	1899	450	77	385
Water-closet range or latrine. Washout	J. F. McCartney	560,740	May 26	2573	592 } 593 }	75	1241
Water-closet seat	O. T. Duntro	557,780	Apr. 7	461	109	75	87
Water-closet seat	H. B. Riggs	553,789	Jan. 28	2311	548	74	476
Water-closet seat	H. B. Riggs	564,900	July 28	2889	692	76	5-0
Water-closet seat	E. L. Taft	554,501	Feb. 11	1247	292	74	751
Water-closet seat and hinge	J. Barrett	564,583	July 28	2361	556	76	483
Water-closet seats and covers. Means for hinging	W. Bunting, Jr.	559,993	May 12	1182	262	75	921
Water-closet. Siphon	W. Scott	572,575	Dec. 8	854	205 } 206 }	77	1460
Water-closet. Siphon	E. C. Stover	562,047	June 16	1753	424	75	1746
Water-closet. Siphon	E. C. Stover	571,026	Nov. 10	1088	254	77	869
Water-closet-tank siphon	T. J. Sullivan	559,503	May 5	267	64	75	734
Water-closet tank-valve	W. T. Fox	557,659	Apr. 7	254	61	75	48
Water-closets, sinks, sewers, &c. Cleaning device for	J. Wrigley	566,110	Aug. 18	2124	517	76	1053
Water-closets, washstands, or urinals. Hopper or basin for	R. Coburn	556,489	Mar. 17	1835	427	74	1506
Water-cooler	J. Rohleder	553,318	Jan. 21	1513	363	74	311
Water-cooling apparatus	W. J. Loughridge	570,318	Oct. 27	2870	681 } 682 }	77	580
Water-elevating apparatus	A. M. Putnam	555,122	Feb. 25	2358	561	74	993
Water-elevator	W. Claypool and C. E. Dooley	572,596	Dec. 8	894	216	77	1468
Water-elevator	J. M. Corn	573,963	Dec. 29	3384	809	77	1986
Water-elevator	O. O. Goserud	556,844	Mar. 24	2432	572	74	1634
Water-elevator	J. McMurrin	562,480	June 23	2475	600	75	1896
Water-elevator	S. F. Mouck	552,855	Jan. 7	660	161	71	124
Water-elevator	E. C. Plumer	560,146	May 12	1470	332	75	974
Water-elevator	D. di B. Savorgnan	565,800	Aug. 11	1553	378 } 379 }	76	925
Water-elevator	D. di B. Savorgnan	566,625	Aug. 25	3004	733 } 734 }	76	1237
Water-elevator	M. H. White	570,526	Nov. 3	159	38, 39	77	667
Water-elevator and carrier	J. W. Eckerd	563,461	July 7	377	87, 88	76	73
Water-elevator and carrier	T. D. Wilkerson	565,584	Aug. 11	1172	282	76	853
Water-elevator. Compressed-air	G. Lansell	561,230	June 2	269	67	75	1419
Water-elevator. Compressed-air	J. A. Martin and J. L. Latta	569,294	Oct. 13	997	239	77	206
Water-elevator. Windlass	R. W. Faris	570,702	Nov. 3	530	123	77	736
Water-elevators. Bottom wheel for	L. A. Brigel	555,924	Mar. 10	753	132	74	1290
Water-elevators. Foot-piece for compressed-air	A. C. Rand	559,810	May 12	823	193	75	852
Water flowing into tanks. Apparatus for reducing noise of	J. J. Spear	560,287	May 19	1740	396	75	1074
Water for heating purposes. Electrizing	P. Huber	558,176	Apr. 14	1185	288	75	241
Water from water-pipes of houses. Device for controlling the flow of	W. A. Hull. (Reissue)	11,533	June 30	3260	924	75	2180
Water from wells. System for collecting	L. C. Eisenhut	574,198	Dec. 27	3847	917	77	2068
Water-gage	F. M. Ashley	565,714	Aug. 11	1402	342	76	897
Water-gage	W. Britton	569,167	Oct. 13	775	181	77	164
Water-gage	B. Long and H. Riedel	554,283	Feb. 11	871	201	74	681
Water-gage	C. B. Mather	564,095	July 14	1515	354	76	298
Water-gage glass	J. Pissinger	572,181	Dec. 1	152	37	77	1307

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				Spec.	Dr. 56	Vol.	Page.
Water-heater	G. H. Coit	558,633	Apr. 21	1967	477	75	404
Water-heater	E. Detwiler	553,110	Jan. 14	1144	277	74	229
Water-heater	W. J. Edwards	560,848	May 26	2775	637	75	1280
Water-heater	H. Haeblerlin	554,679	Feb. 18	1562	368	74	828
Water-heater	H. Haeblerlin	570,128	Oct. 27	2477	587	77	507
Water-heater	J. W. Hazell	555,767	Mar. 3	468	112	74	1214
Water-heater	D. E. Houser and G. C. Hobrock	555,245	Feb. 25	2566	603	74	1032
Water-heater	O. F. Leibert	568,690	Sept. 29	3464	828	76	1983
Water-heater	M. J. Lordier	563,976	July 14	1300	304	76	256
Water-heater	B. C. Noble	554,371	Feb. 11	1017	236	74	709
Water-heater	J. H. Phillips	559,040	Apr. 28	2682	653	75	554
Water-heater	A. F. Pritschan	566,409	Aug. 25	2645	645	76	1168
Water-heater	A. E. Simons and E. Hixon	567,868	Sept. 15	1970	473	76	1678
Water-heater	J. N. Sturm and H. Froelich	554,745	Feb. 18	1663	392	74	848
Water heater and purifier. Combined	T. Gunning	555,155	Feb. 25	2409	571	74	1003
Water heater and reservoir	E. E. Strank, M. Bromeling, and J. L. Bates	555,980	Mar. 10	862	204	74	1212
Water-heater. Multitubular	W. R. Roney	565,394	Aug. 4	802	191	76	765
Water-heater. Sectional	C. Steel	569,360	Oct. 13	1113	285	77	229
Water-heating apparatus	J. S. Coe	555,675	Mar. 3	333	76	74	1189
Water-heating apparatus	W. and I. Darby and J. H. Punched	569,215	Oct. 20	1936	460	77	392
Water-heating apparatus	D. N. Hurlbut	562,897	June 30	3229	780	75	2056
Water-heating apparatus. Automatic	E. A. Porcher and J. Winterflood	556,641	Mar. 17	2088	489	74	1552
Water-meter	G. B. Bassett	569,271	Oct. 13	954	228	77	198
Water-meter	J. E. A. Bel	563,438	July 7	344	78	76	67
Water-meter	F. W. Hood	568,759	Oct. 6	85	20	77	19
Water-meter	F. A. Hubbuch	557,820	Apr. 7	528	127	75	100
Water-meter	L. H. Nash	561,060	May 26	3129	722	75	1346
Water-meter	L. H. Nash	562,144	June 16	1917	465	75	1775
Water-meter	L. H. Nash	562,146	June 16	1921	467	75	1776
Water-meter	L. H. Nash	562,147	June 16	1922	467	75	1776
Water-meter	L. H. Nash	562,148	June 16	1923	467	75	1776
Water-meter	J. Thomson	568,641	Sept. 29	3374	808	76	1966
Water-meter. Disk	L. H. Nash	562,145	June 16	1920	466	75	1775
Water-meter. Disk	J. Thomson	556,113	Mar. 10	1114	265	74	1455
Water-meter. Disk	J. Thomson	568,640	Sept. 29	3372	808	76	1965
Water-meter. Disk	J. Thomson	562,642	Sept. 29	3376	809	76	1966
Water-meter. Rotary	J. G. Summers	571,703	Nov. 17	2242	539	77	1097
Water-motor	A. R. Lewis	560,559	May 19	2259	518	75	1166
Water-motor	A. D. Moore	559,740	May 5	647	156	75	805
Water-motor	A. D. Oles	572,684	Dec. 8	1045	253	77	1497
Water or other fluid meter	E. W. Shedd	563,623	July 7	651	151	76	122
Water over hills or mountains. Means for conveying	R. Mannesmann	555,014	Feb. 18	2147	512	74	938
Waterproof composition	G. C. F. Hauser	572,295	Dec. 1	367	77	1349	
Waterproof garment	M. D. Beach	570,081	Oct. 27	2397	568	77	493
Waterproofing felt. Composition for	W. Müller	571,584	Nov. 17	1702	77	998	
Waterproofing or other purposes. Electrically treating fabrics for	H. L. Brevort	558,717	Apr. 21	2113	75	431	
Water. Purifying	C. H. Kendrick	566,324	Aug. 25	2475	76	1136	
Water. Purifying	T. Royle	567,919	Sept. 15	2040	76	1692	
Water. Purifying	G. H. Sellers	564,940	July 28	2974	76	595	
Water purifying and storing apparatus	R. H. Thorpe	568,550	Sept. 29	3199	770	76	1933
Water-purifying apparatus	P. H. A. Gaillet	563,660	July 7	701	166	76	132
Water-purifying apparatus	N. O. Goldsmith	558,018	Apr. 7	911	228	75	171
Water-purifying apparatus	J. B. Greer	567,829	Sept. 15	1914	459	76	1666
Water-purifying apparatus	R. T. Scowden	559,216	May 12	830	195	75	853
Water-purifying apparatus	R. T. Scowden	559,217	May 12	833	195	75	854
Water-purifying apparatus	R. T. Scowden	563,811	July 14	980	233	76	199
Water-purifying apparatus	G. H. Sellers	564,939	July 28	2972	708	76	594
Water-purifying apparatus	G. H. Sellers	564,941	July 28	2975	708	76	595
Water-purifying apparatus	G. H. Sellers	564,942	July 28	2978	709	76	595
Water-purifying compound	J. B. Greer	561,884	June 9	1465	75	1671	
Water-raising apparatus	F. H. Merrill	561,268	June 2	327	82	75	1432
Water-raising apparatus	G. R. Young and C. Shaw	562,266	June 16	2114	512	75	1812
Water-raising apparatus	G. R. Young and C. Shaw	572,850	Dec. 8	1336	321	77	1553
Water. Softening hard	S. L. Bailey	553,383	Jan. 21	1623	74	331	
Water-sprinkler	E. R. Gill	564,610	July 28	2408	568	76	491
Water-sprinkler	W. S. Kisinger	572,120	Dec. 1	45	11	77	1287
Water-sterilizing apparatus	H. G. Stiebel, Jr.	564,657	July 28	2481	566	76	506
Water supply for wash-trays, laundry-tubs, &c. Hot and cold	G. W. Conderman	566,296	Aug. 25	2416	593	76	1125
Water-supply system	E. K. Conover	568,522	Sept. 29	3157	760	76	1924
Water-supply system. Electrically-operated	J. P. Barrett	571,328	Nov. 17	1612	383	77	982
Water supply to closets, urinals, &c. Apparatus for regulating	A. Long	570,487	Nov. 3	91	21	77	655
Water-tank. Portable	E. D. Etnyre	573,584	Dec. 22	2678	636	77	1840
Water-tower	W. H. Jackson and B. N. Moss	572,995	Dec. 15	1595	322	77	1620
Water-tower. Portable	D. D. Hayes	562,895	June 30	3225	779	75	2056
Water-trap and boiler-feed. Combined return	W. Norris	558,608	Apr. 21	1928	468	75	397
Water-trap for gas-mains, &c.	M. Farrell	565,970	Aug. 18	1893	460	76	1008
Water-tube boiler	G. Cook	566,500	Aug. 25	2828	689	76	1201
Water-tube boiler	C. Edgerton	572,476	Dec. 1	677	162	77	1407

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Water-tube boiler.....	C. G. P. de Laval.....	557,838	Apr. 7	562	135	75	106
Water-tube boiler.....	F. V. Riviere.....	553,425	Jan. 21	1690	403	74	344
Water-tube boiler.....	G. Schisler.....	589,239	Oct. 13	904	216	77	189
Water-tube boiler.....	H. See.....	556,108	Mar. 10	1104	262 263	74	1353
Water-tube boiler.....	J. I. Thorneycroft.....	555,543	Mar. 3	101	22, 23	74	1149
Water-tube boiler.....	J. W. Ward.....	566,826	Sept. 1	152	36	76	1311
Water-tube boiler and tube-fastening.....	J. Haythorn.....	558,685	Apr. 21	2066	500	75	421
Water-tube boiler. Sectional.....	R. and R. Munroe, Jr.....	565,017	Aug. 4	92	21, 22	76	635
Water-tube boiler. Vertical.....	M. Miller.....	567,913	Sept. 15	2031	487	76	1690
Water-wheel.....	J. B. McCormick.....	560,301	May 19	1764	402	75	1077
Water-wheel.....	A. M. Pascault and J. F. M. H. de } Coursac.....	570,951	Nov. 10	966	224 225	77	817
Water-wheel and gate therefor.....	E. E. Coleman.....	568,603	Sept. 29	3306	793	76	1953
Water-wheel bucket.....	A. Chavanne.....	571,510	Nov. 17	1921	458	77	1038
Water-wheel bucket.....	J. B. McCormick.....	560,300	May 19	1763	401	75	1076
Water-wheel governor. Electric.....	A. Giesler.....	574,320	Dec. 29	4061	965 966	77	2109
Water-wheel. Hurdy-gurdy.....	F. M. Bookwalter.....	553,097	Jan. 14	1117	271	74	224
Water-wheel. Turbine.....	J. and E. Caldwell.....	569,613	Oct. 20	1563	366	77	326
Water-wheel. Turbine.....	C. A. Foreman.....	560,350	May 19	1856	422 423	75	1093
Water-wheel. Turbine.....	A. W. Haag.....	557,802	Apr. 7	504	121	75	95
Water-wheel. Turbine.....	J. B. McCormick, Jr.....	554,291	Feb. 11	886	203 204	74	684
Water-wheels. Electric governor for.....	W. W. Handy.....	571,363	Nov. 17	1666	395	77	992
Waterways. Balance-lock for.....	C. N. Dutton.....	557,564	Apr. 7	51	14 15 16 17	75	11
Watering device. Automatic stock.....	D. H. Bausman.....	569,079	Oct. 6	622	142	77	119
Watering tank. Stock.....	I. J. Hartford.....	570,254	Oct. 27	2710	644	77	552
Watering-trough.....	L. C. North and F. Stake.....	564,635	July 28	2452	577	76	500
Watering-trough.....	A. H. Wilson.....	567,672	Sept. 15	1639	396	76	1614
Watering-trough. Self.....	J. E. Kordick.....	573,005	Dec. 15	1615	388	77	1624
Wattmeter.....	T. Duncan.....	573,078	Dec. 15	1741	417 418	77	1649
Wattmeter.....	G. Hummel.....	570,019	Oct. 27	2280	542	77	469
Wave-motor.....	A. Knudson.....	560,002	May 12	1198	266	75	923
Wave-motor.....	F. H. Lemon and A. B. Bartlett.....	568,487	Sept. 29	3060	736 737	76	1908
Wave-motor.....	C. R. Martin.....	562,317	June 16	2201	535 536	75	1829
Wave-motor.....	A. W. Stahl and R. Gatewood.....	574,177	Dec. 29	3799	907	77	2059
Wave-power.....	W. E. P. Rose.....	559,107	Apr. 28	2798	677	75	579
Wave-power. Apparatus for utilizing.....	F. C. Little.....	570,223	Oct. 27	2646	627 628	77	540
Wave-power-transmitting apparatus.....	T. Harding.....	559,798	May 12	1777	166	75	843
Wax and artificial honeycomb foundation. Method of and apparatus for making sheeted.....	E. B. Weed.....	572,588	Dec. 8	881	213	77	1405
Wax, &c. Apparatus for treating paraffin.....	W. P. Cowan.....	558,358	Apr. 14	1482	364 365	75	298
Wax. Device for melting sealing.....	N. Bimberg.....	554,645	Feb. 18	1501	352	74	816
Weaner. Calf.....	F. S. Albright.....	556,236	Mar. 10	1341	315	74	1396
Weaner. Calf.....	B. W. Bussell.....	552,685	Jan. 7	328	87	74	64
Weaner. Calf.....	G. Disrud.....	572,339	Dec. 1	443	105	77	1363
Weaner. Calf.....	J. B. McCarthy and J. A. Griffin.....	566,335	Aug. 25	2492	611	76	1139
Weather-board clamp.....	W. Kinderman.....	561,003	May 26	3033	698	75	1328
Weather-board gage and support.....	W. Stevenson.....	572,582	Dec. 8	868	209	77	1463
Weather-indicator. Electric.....	W. M. Kelch.....	568,444	Sept. 29	2991	719 720	76	1896
Weather-strip.....	H. W. Albright.....	573,193	Dec. 15	1949	469	77	1687
Weather-strip.....	E. T. Brown.....	554,960	Feb. 18	2076	494	74	925
Weather-strip.....	W. Z. Brown.....	566,653	Aug. 25	3043	744	76	1244
Weather-strip.....	W. C. Crary.....	568,561	Sept. 29	3212	774	76	1935
Weather-strip.....	S. S. Denman.....	559,686	May 5	565	133	75	790
Weather-strip.....	E. Koch.....	572,810	Dec. 8	1277	308	77	1540
Weather-strip.....	O. C. Little.....	569,582	Oct. 13	1506	355	77	300
Weather-strip.....	T. J. Moseley.....	573,683	Dec. 22	2884	631	77	1878
Weather-strip.....	C. Saville.....	565,038	Aug. 4	134	32	76	643
Weather-strip.....	J. R. Smith.....	567,363	Sept. 8	1132	272	76	1503
Weather-strip.....	A. Thorn.....	567,319	Mar. 31	3283	787	74	1813
Weather-strip.....	H. Voth.....	565,946	Aug. 15	1820	444	76	997
Weather-strip.....	W. F. Woodring.....	568,061	Sept. 22	2333	563	76	1755
Weather-strip and door-stop.....	A. M. Doyle.....	558,786	Apr. 21	2837	510	75	453
Weather-strip for doors. Automatically-closing.....	W. Gathany.....	566,162	Aug. 18	2206	537	76	1068
Weather-strips. Machine for manufacturing metallic-framed.....	D. W. Bosley.....	554,907	Feb. 18	1954	460	74	903
Weather-vanes. Ornamental indicator for.....	A. J. Munson.....	563,938	July 14	1233	287	76	244
Weaving apparatus. Selvage.....	G. Browning.....	572,674	Dec. 8	1026	249 250	77	1494
Weaving. Means for.....	R. Simon.....	561,622	June 9	1003	240 241	75	1585
Weaving-needle.....	H. B. Morris.....	564,332	July 21	1926	454	76	386
Wedge for filling and tightening wood-joints.....	J. H., J. R., and W. E. Smith.....	567,048	Sept. 1	558	130	76	1387
Wedge-making apparatus.....	J. W. Hussey.....	573,466	Dec. 22	2482	588 589	77	1802
Weed-puller.....	C. Waterman.....	562,991	June 30	3408	819	75	2095
Weeder.....	W. E. Whitman.....	555,142	Feb. 25	2391	567	74	999
Weeder.....	F. Wiard.....	562,106	June 16	1858	451	75	1764
Weeder and raker. Interchangeable.....	A. S. Topping.....	572,935	Dec. 8	1486	357	77	1583
Weeder. Rotary.....	E. C. Welch.....	556,601	Mar. 17	2031	476	74	1541
Weigher and sacker. Grain.....	J. M. Welbourn.....	561,742	June 9	1222	290	75	1627

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Weigher. Grain.....	E. Huber and J. W. Miller.....	556,149	Mar. 10	1187	277 278	74	1369
Weighing and conveying grain. Apparatus for.....	G. W. Cramer.....	571,571	Nov. 17	2023	481 482	77	1056
Weighing and feeding apparatus. Automatic.....	A. L. Munson.....	566,925	Sept. 1	326	76, 77	76	1345
Weighing and filling apparatus. Automatic.....	H. P. Dennis.....	572,504	Dec. 1	723	173	77	1416
Weighing and package-filling machine.....	G. W. Watson.....	556,231	Mar. 10	1329	311 312 313	74	1394
Weighing and package-filling machine. Automatic.....	W. H. Doble and G. W. Watson.....	556,258	Mar. 10	1377	324 325	74	1403
Weighing and packing machine.....	F. H. Richards.....	565,228	Aug. 4	548	128 129	76	716
Weighing and registering machine.....	G. A. Hanna and F. E. Fairman.....	572,986	Dec. 15	1582	379 380	77	1618
Weighing apparatus.....	V. Ratcliff.....	563,802	July 14	966	229	76	197
Weighing apparatus.....	F. H. Richards.....	561,522	June 2	828	200	75	1527
Weighing apparatus.....	F. H. Richards.....	573,420	Dec. 15	2366	565 566	77	1763
Weighing apparatus.....	B. Simons.....	564,945	July 28	2985	711	76	597
Weighing apparatus. Automatic.....	G. Anderson.....	561,470	June 2	730	179	75	1507
Weighing apparatus. Proportional.....	E. A. Munson.....	557,140	Mar. 31	2944	705	74	1756
Weighing-machine.....	F. H. Richards.....	559,208	Apr. 28	3012	728	75	618
Weighing-machine.....	F. H. Richards.....	559,209	Apr. 28	3016	729 730	75	619
Weighing-machine.....	F. H. Richards.....	559,210	Apr. 28	3022	730 731	75	620
Weighing-machine.....	F. H. Richards.....	559,212	Apr. 28	3033	732 733	75	622
Weighing-machine.....	F. H. Richards.....	559,213	Apr. 28	3040	734 735	75	623
Weighing-machine.....	F. H. Richards.....	559,214	Apr. 28	3046	735 736	75	624
Weighing-machine.....	F. H. Richards.....	559,215	Apr. 28	3053	737	75	625
Weighing-machine.....	F. H. Richards.....	559,747	May 5	664	159 160	75	808
Weighing-machine.....	F. H. Richards.....	559,749	May 5	671	160 161	75	809
Weighing-machine.....	F. H. Richards.....	559,751	May 5	680	161 162	75	811
Weighing-machine.....	F. H. Richards.....	560,542	May 19	2169	163 496	75	1149
Weighing-machine.....	F. H. Richards.....	560,543	May 19	2174	496 497	75	1150
Weighing-machine.....	F. H. Richards.....	560,545	May 19	2183	497 498 499	75	1151
Weighing-machine.....	F. H. Richards.....	560,600	May 19	2279	522 523	75	1169
Weighing-machine.....	F. H. Richards.....	561,521	June 2	818	199 200	75	1525
Weighing-machine.....	F. H. Richards.....	565,219	Aug. 4	498	118 119 120	76	709
Weighing-machine.....	F. H. Richards.....	565,220	Aug. 4	505	120	76	710
Weighing-machine.....	F. H. Richards.....	565,221	Aug. 4	510	121 122	76	711
Weighing-machine.....	F. H. Richards.....	565,222	Aug. 4	515	122	76	711
Weighing-machine.....	F. H. Richards.....	565,223	Aug. 4	521	123	76	712
Weighing-machine.....	F. H. Richards.....	565,224	Aug. 4	528	124	76	713
Weighing-machine.....	F. H. Richards.....	565,225	Aug. 4	536	125	76	714
Weighing-machine.....	F. H. Richards.....	565,226	Aug. 4	541	126 127	76	715
Weighing-machine.....	F. H. Richards.....	565,229	Aug. 4	553	129	76	717
Weighing-machine.....	F. H. Richards.....	565,584	Sept. 29	3261	784	76	1945
Weighing-machine.....	F. H. Richards.....	568,585	Sept. 29	3267	785 786	76	1946
Weighing-machine.....	F. H. Richards.....	568,587	Sept. 29	3273	787	76	1946
Weighing-machine.....	F. H. Richards.....	570,291	Oct. 27	2774	660 661	77	564
Weighing-machine.....	F. H. Richards.....	570,292	Oct. 27	2780	661 662	77	564
Weighing-machine.....	F. H. Richards.....	570,293	Oct. 27	2785	662 663	77	565
Weighing-machine.....	F. H. Richards.....	570,294	Oct. 27	2789	664	77	566
Weighing-machine.....	F. H. Richards.....	570,295	Oct. 27	2796	665 666	77	567
Weighing-machine.....	F. H. Richards.....	570,296	Oct. 27	2803	666	77	568
Weighing-machine.....	F. H. Richards.....	570,297	Oct. 27	2807	667	77	568
Weighing-machine.....	F. H. Richards.....	570,298	Oct. 27	2812	668 669	77	569
Weighing-machine.....	F. H. Richards.....	570,299	Oct. 27	2818	669 670	77	570
Weighing-machine.....	F. H. Richards.....	570,301	Oct. 27	2826	671 672	77	572
Weighing-machine.....	F. H. Richards.....	570,302	Oct. 27	2831	672 673	77	573
Weighing-machine.....	F. H. Richards.....	570,303	Oct. 27	2836	673 674	77	574
Weighing-machine.....	F. H. Richards.....	570,304	Oct. 27	2842	674 675	77	575
Weighing-machine.....	F. H. Richards.....	572,065	Nov. 24	2901	685	77	1240
Weighing-machine.....	F. H. Richards.....	572,066	Nov. 24	2904	685 686	77	1241

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Weighing-machine.....	F. H. Richards.....	572,068	Nov. 24	2914	687 688	77	1243
Weighing-machine.....	F. H. Richards.....	572,069	Nov. 24	2919	688 689	77	1244
Weighing-machine.....	F. H. Richards.....	572,071	Nov. 24	2934	691 692 693	77	1246
Weighing-machine.....	F. H. Richards.....	572,088	Nov. 24	2974	699 700	77	1254
Weighing-machine.....	F. H. Richards.....	572,089	Nov. 24	2985	701 702	77	1255
Weighing-machine.....	F. H. Richards.....	573,418	Dec. 15	2354	562 563	77	1761
Weighing-machine.....	F. H. Richards.....	573,419	Dec. 15	2361	564 565	77	1762
Weighing-machine.....	F. H. Richards.....	573,421	Dec. 15	2371	566 567	77	1763
Weighing-machine.....	F. H. Richards.....	574,168	Dec. 29	3763	898 899 900	77	2055
Weighing-machine.....	F. H. Richards.....	574,169	Dec. 29	3771	901	77	2056
Weighing-machine.....	F. H. Richards.....	574,170	Dec. 29	3775	902	77	2056
Weighing-machine.....	M. Scholz, D. J. O'Connor, and R. J. Bremner.....	557,237	Mar. 31	3140	753	74	1786
Weighing-machine.....	R. H. Taylor.....	569,893	Oct. 20	2061	490	77	415
Weighing-machine.....	F. E. Thompson.....	568,589	Sept. 29	3277	787	76	1947
Weighing-machine.....	F. E. Thompson.....	573,424	Dec. 15	2384	568 569	77	1767
Weighing-machine.....	F. E. Thompson and H. J. Bingham.....	568,590	Sept. 29	3279	788	76	1947
Weighing-machine. Automatic.....	W. E. Nickerson.....	555,393	Feb. 25	2827	665 666	74	1081
Weighing-machine. Automatic.....	C. H. Phillips and W. E. Nickerson.....	554,029	Feb. 4	416	91, 92	74	581
Weighing-machine. Automatic.....	F. H. Richards.....	559,746	May 5	657	158 159	75	807
Weighing-machine. Automatic.....	F. H. Richards.....	572,067	Nov. 24	2909	686 687	77	1242
Weighing-machine. Automatic.....	B. Simons.....	564,946	July 28	2890	711 712	76	597
Weighing-machine. Automatic.....	E. G. Thomas.....	573,247	Dec. 15	2041	489	77	1704
Weighing-machine bagging apparatus.....	F. H. Richards.....	559,211	Apr. 28	3028	732	75	651
Weighing-machine feed mechanism.....	H. E. Smyser.....	570,109	Oct. 27	2443	581 582	77	502
Weighing-machine feeding apparatus.....	F. H. Richards.....	560,544	May 19	2178	497	75	1150
Weighing-machine housing.....	F. H. Richards.....	565,227	Aug. 4	546	127 128	76	716
Weighing-machine supply apparatus.....	F. H. Richards.....	570,300	Oct. 27	2824	671	77	571
Weighing-machines. Door for automatic.....	W. E. Nickerson.....	555,179	Feb. 25	2451	580 581	74	1011
Weighing or measuring machine.....	S. P. Mackey.....	569,878	Oct. 20	2033	484	77	410
Weighing-truck.....	O. W. Parsell.....	566,931	Sept. 1	338	79	76	1347
Welding apparatus.....	C. L. Rowland.....	561,614	June 9	989	237	75	1582
Welding apparatus. Electric.....	H. Lemp.....	553,923	Feb. 4	228	50	74	548
Welding die.....	C. Reinhardt.....	568,043	Sept. 22	2293	556	76	1749
Welding indicator. Electric.....	E. Thomson.....	555,130	Feb. 25	2371	563	74	996
Welding-machine.....	W. C. Kroegher.....	568,911	Oct. 6	328	76	77	63
Welding machine. Electric hub.....	C. E. Harthan.....	556,414	Mar. 17	1699	396	74	1480
Welding machine. Seam.....	M. Baumann.....	563,997	July 14	1533	311	76	263
Well apparatus. Sheave attachment for oil.....	K. G. Roebeling, Jr.....	555,126	Feb. 25	2365	562	74	995
Well augers. Boring-rod for.....	H. C. and L. Bruner.....	557,482	Mar. 31	3562	852	74	1868
Well boring and drilling apparatus.....	W. M. Schenck and J. F. Helton.....	554,315	Feb. 11	927	213	74	692
Well boring and tubing apparatus.....	C. M. Smith.....	570,513	Nov. 3	136	34	77	663
Well-boring machine.....	J. M. Geisinger.....	565,343	Aug. 4	724	172	76	750
Well-boring machine.....	G. Zink.....	569,012	Oct. 6	511	116	77	97
Well-casing spear.....	E. M. Hoagland.....	569,378	Oct. 13	1141	272	77	234
Well casings. Packing collar or sleeve for oil, gas, or Artesian.....	J. Carruthers.....	563,135	June 30	3668	878	75	2144
Well-cleaner.....	T. C. Davison.....	557,113	Mar. 31	2895	692	74	1745
Well-drill.....	L. S. Lewis.....	566,989	Sept. 1	453	105	76	1367
Well drilling and driving machine.....	G. D. Loomis.....	565,909	Aug. 18	1768	430 431	76	984
Well-drilling apparatus.....	S. A. Horton.....	554,820	Feb. 18	1800	422	74	875
Well-drilling machine.....	E. Catlin.....	553,899	Feb. 4	172	36, 37	74	537
Well-drilling machine.....	J. J. Dues.....	566,363	Aug. 25	2594	633	76	1158
Well-drilling machine.....	L. D. Ennes.....	572,973	Dec. 15	1564	375 376	77	1614
Well-drilling machine.....	H. Kelly.....	570,130	Oct. 27	2481	567 568 569	77	508
Well-drilling machine.....	R. H. Kersey.....	558,877	Apr. 21	2387	583	75	482
Well filter-casing. Deep.....	G. W. Durbrow.....	580,399	May 19	1940	443	75	1108
Well grip. Oil.....	N. R. Swartz and F. J. Frizzell.....	564,232	July 21	1757	411	76	356
Well jack and pumping apparatus. Oil.....	E. B. Smith and H. Benard.....	569,068	Oct. 6	604	138	77	116
Well jacks. Rack for oil.....	J. Barrett.....	574,056	Dec. 29	3554	848	77	2017
Well-making machine.....	M. G. Bunnell.....	560,120	May 12	1427	321	75	966
Well or cistern cleaner.....	H. S. Lowderbaugh.....	565,763	Aug. 11	1496	365	76	914
Well-point.....	H. K. Brearley.....	572,860	Dec. 8	1350	325	77	1555
Well-refrigerators. Dumb-waiter for.....	W. M. Larimer and W. H. Argo.....	564,190	June 30	3763	900	75	2103
Well-rope take-up.....	H. L. McWhirter.....	574,258	Dec. 29	3963	941	77	2090
Well-strainer. Artesian.....	M. D. Wheeler.....	572,848	Dec. 8	1335	321	77	1552
Well-strainer. Driven.....	B. F. Smith.....	560,441	May 19	2021	462	75	1123
Well system. Driven.....	B. F. Smith.....	572,034	Nov. 24	2844	669	77	1230
Well tool. Oil.....	H. G. Durnell.....	565,442	Aug. 11	883	209	76	890
Well. Tube.....	D. L. Barker.....	566,371	Aug. 25	2569	627	76	1153
Well tubing. Gas or oil.....	W. Moore.....	554,076	Feb. 4	497	112	74	596
Well-tubing support.....	E. R. Curtin.....	565,843	Aug. 11	1626	398	76	938

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g	Vol.	Page.
Wells. Apparatus for forcing water, &c., from natural-gas or other	J. K. and W. B. Johnston	554,188	Feb. 4	705	159	74	634
Wells. Apparatus for jarring casings in Artesian	G. Palm	563,054	June 30	3505	842	75	2113
Wells. Device for flowing	L. Stephens	554,548	Feb. 11	1318	309	74	766
Wells. Filter for quicksand	T. A. Evans	563,712	July 7	802	192	76	150
Wells. Increasing the flow of oil	H. Frasch	556,669	Mar. 17	2127	496	74	1559
Wells. Increasing the flow of oil	J. W. Van Dyke	556,651	Mar. 17	2102	492	74	1555
Wells. Means for cleaning oil	W. Connelly	572,867	Dec. 8	1358	328	77	1557
Wells. Method of and means for removing paraffin from oil	F. A. Flanegin	573,142	Dec. 15	1861	448	77	1671
Wells. Pipe-valve for oil	J. Kifer	556,850	Mar. 24	2440	573	74	1636
Weld-seam-trimming machine	Z. T. French and W. C. Meyer	558,379	Apr. 14	1526	{ 374 375 }	75	305
Weld-seam-trimming machine	Z. T. French and W. C. Meyer	558,380	Apr. 14	1530	375	75	306
Weld-seam-trimming machine	Z. T. French and W. C. Meyer	558,381	Apr. 14	1532	375	75	306
Weld-seam-trimming machine	Z. T. French and W. C. Meyer	558,382	Apr. 14	1534	376	75	307
Weld-turning and in-seam-trimming machine	A. La Bonté	558,286	Apr. 14	1371	{ 334 335 }	75	277
Wheat-drill	J. R. Harper	559,283	Apr. 28	3158	763	75	644
Wheat for cleaning. Preparing	I. N. Hibberd and R. Herlitz	568,681	Sept. 29	3453	826	76	1981
Wheat mixer and temperer	W. F. Cromwell and J. Schoonover	566,143	Aug. 18	2177	530	76	1062
Wheat, &c. Removing smut from	J. S. Templeton	564,398	July 21	2040	478	76	407
Wheat-washing machine	J. McDaniel	573,686	Dec. 22	2887	682	77	1879
Wheat-washing machine	J. McDaniel	573,687	Dec. 22	2888	{ 682 683 }	77	1880
Wheel:							
See Bicycle-wheel. Musical-instrument spur-wheel.							
Bicycle or tricycle wheel.	Pleasure-wheel.						
Bicycle sprocket-wheel.	Power-wheel.						
Buffing-wheel.	Propeller-wheel.						
Car-wheel.	Scouring or buffing wheel.						
Caster-wheel.	Self-lubricating wheel.						
Chime-wheel.	Sprocket-wheel.						
Cultivator-wheel.	Suspension-wheel.						
Cycle-wheel.	Tidal wheel.						
Elevator power-wheel.	Toy musical wheel.						
Emery-wheel.	Toy water-wheel.						
Fifth-wheel.	Traction-wheel.						
Fly-wheel.	Trolley-wheel.						
Gear-wheel.	Vehicle-wheel.						
Harvester truck-wheel.	Vehicle spring-wheel.						
Metal wheel.	Velocipede-wheel.						
	Wagon-wheel.						
	Water-wheel.						
	Wind-wheel.						
Wheel	S. Carnes	560,970	May 26	2985	685	75	1319
Wheel	E. S. Cobb	565,378	Aug. 4	774	184	76	760
Wheel	J. S. Court	564,473	July 21	2160	506	76	428
Wheel	S. Di Vecchio and P. H. Coward	553,796	Jan. 28	2320	551	74	478
Wheel	W. F. H. Harvey	571,439	Nov. 17	1794	428	77	1015
Wheel	F. C. Hockensmith	560,584	May 19	2252	516	75	1164
Wheel	C. A. Hodge	567,981	Sept. 22	2169	522	76	1727
Wheel	A. G. Jennings	556,848	Mar. 24	2438	573	74	1636
Wheel	H. E. Pridmore	558,519	Apr. 21	1783	433	75	371
Wheel	T. B. Seibert	573,166	Dec. 15	1893	{ 455 456 }	77	1677
Wheel	C. E. Tomlinson	560,660	May 26	2442	559	75	1214
Wheel	C. A. Tower	558,327	Apr. 14	1438	354	75	290
Wheel	W. Tozer, F. B. and H. Stanton	553,295	Jan. 21	1476	355	74	304
Wheel	A. J. Wolff	556,121	Mar. 10	1129	267	74	1358
Wheel	G. P. Yeakel	569,703	Oct. 20	1749	415	77	859
Wheel and axle	J. L. Cook	556,908	Mar. 24	2379	560	74	1624
Wheel and axle connection	J. F. Bible	570,742	Nov. 3	600	138	77	748
Wheel attachment	E. M. Buchanan and D. J. Hughes	554,860	Feb. 18	1874	441	74	888
Wheel box. Carriage	H. Noelte	565,630	Aug. 11	1252	302	76	868
Wheel-brake	G. S. Sanford and H. H. Barnard	563,620	July 7	647	151	76	122
Wheel-chuck	R. B. Hain	560,354	May 19	1859	424	75	1093
Wheel-drag	T. G. Clifford	572,356	Dec. 1	476	111	77	1369
Wheel-fender	S. Norton	569,465	Oct. 13	1276	{ 300 301 413 414 }	77	257
Wheel-fender and step-cover for vehicles	C. H. Stratton	560,331	May 19	1818	75	1086	
Wheel. Flexible-tired	G. Mortson	553,252	Jan. 21	1389	339	74	289
Wheel for tram-cars, &c	T. Miller	554,523	Feb. 11	1380	300	74	758
Wheel-gage. Adjustable	E. A. Thiem	563,944	July 14	1242	290	76	246
Wheel-measure	A. E. Remus	571,313	Nov. 10	1586	377	77	983
Wheel-retainer. Vehicle	A. Josephs and H. Luers	559,896	May 12	1015	225	75	887
Wheel-rim	J. A. Dann	555,306	Feb. 25	2683	628	74	1054
Wheel-rim	A. B. Keyes and C. F. Cowdrey	560,853	May 26	2788	639	75	1282
Wheel-rim	T. Kundtz	563,774	July 14	914	218	76	187
Wheel-rim	F. Taylor	566,244	Aug. 18	2332	571	76	1093
Wheel rim-clamp	C. Schalles	559,612	May 5	447	105	75	769
Wheel-rim joint. Vehicle	F. A. Lomont	561,119	June 2	70	19	75	1380
Wheel rim. Vehicle	G. E. Blake	559,118	Apr. 28	2818	682	75	584
Wheel-rim. Wood	D. R. Canny	561,157	June 2	146	38	75	1394
Wheel-rim. Wooden	J. Berkey	558,470	Apr. 21	1702	411	75	355
Wheel-rim. Wooden	H. G. Shepard	564,802	July 28	2735	650	76	551
Wheel-rims. Device for securing spokes to	C. J. Curry	574,139	Dec. 29	3705	883	77	2044
Wheel-rims. Gluing-press for wooden	O. A. Hanford	565,166	Aug. 4	405	97	76	692
Wheel-rims, &c. Machine for dressing	C. H. Cowdrey	562,172	June 16	1961	476	75	1784
Wheel-rims. Manufacture of	J. Dring	557,196	Mar. 31	3065	735	74	1774
Wheel. Rubber-tired	A. W. Grant	554,675	Feb. 18	1552	366	74	826
Wheel scraper. Vehicle	W. F. Smith	560,440	May 19	2019	462	75	1123

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Wheel-setting machine	C. H. Metz	557,002	Mar. 24	2713	643	74	1686
Wheel-truing device	F. Schrader	569,033	Oct. 6	546	126	77	104
Wheel-truing jack	C. H. Metz	557,001	Mar. 24	2712	642	74	1686
Wheel with electrical motor-hub for vehicles	C. Thérve	572,036	Nov. 24	2846	670	77	1230
Wheels. Attachment for increasing diameter of sprocket	W. E. Warren	570,690	Nov. 3	512	119	77	733
Wheels. Detent for ratchet	W. D. Marks	571,050	Nov. 10	1126	263	77	877
Wheels during construction or repair. Device for supporting bicycle or other	D. W. Ferguson	566,851	Sept. 1	197	45	76	1320
Wheels. Machine for assembling parts of	W. Sanderson	569,888	Oct. 20	2046	{ 487 488 }	77	412
Wheels. Machine for making rims for pneumatic	J. Banwell	571,040	Nov. 10	1189	279	77	888
Wheels. Manufacture of	W. Strait	554,204	Feb. 4	729	166	74	639
Wheels. Manufacturing wrought-iron and steel disk and spoke	H. A. T. Ehrhardt	560,785	May 26	2662	612	75	1257
Wheels. Support for rubber-tired	R. Chandler	556,806	Mar. 24	2376	559	74	1623
Wheelbarrow	W. P. Carmichael	556,616	Mar. 17	2053	480	74	1545
Wheelbarrow	B. C. McCabe	562,139	June 16	1907	462	75	1773
Wheelbarrow	R. Stone	559,001	Apr. 23	2608	635	75	541
Whiffletree	H. Barber	558,024	Apr. 14	927	230	75	191
Whiffletree	H. Barber	562,063	June 16	1778	430	75	1750
Whiffletree	W. A. Bennett	559,353	May 5	6	2	75	682
Whiffletree	J. D. Cason and J. H. Jamison	560,341	May 19	1834	417	75	1089
Whiffletree	J. S. George	562,129	June 16	1892	459	75	1770
Whiffletree	J. H. Moran	553,126	Jan. 14	1165	283	74	233
Whiffletree	W. A. O'Bar	574,071	Dec. 29	3578	855	77	2021
Whiffletree attachment	W. D. Hopkins	558,954	Apr. 28	2530	613	75	526
Whiffletree-coupling	R. J. Vanderbeck	564,264	July 21	1815	435	76	367
Whiffletree-hook	M. L. Hayward	564,016	July 14	1367	318	76	269
Whiffletree-hook	I. L. Landis	560,804	May 26	2688	617	75	1262
Whiffletree-hook	I. L. Landis	561,057	May 26	3125	721	75	1346
Whiffletree-hook	T. G. Mandt	553,863	Feb. 4	90	19	74	522
Whiffletree-hook	J. Olsen	565,688	Aug. 11	1357	329	76	889
Whiffletree-iron	J. W. Jones	561,055	May 26	3122	719	75	1345
Whip	G. E. Kelly and H. A. Cullins	555,776	Mar. 3	478	114	74	1217
Whip-holder	F. Zirkle	567,437	Sept. 8	1248	301	76	1525
Whip-lock	H. H. Cleveland	562,578	June 23	2652	642	75	1929
Whip. Mechanical	W. S. Martin	558,087	Apr. 14	1040	234	75	213
Whip-operating device	J. M. Herman	570,800	Nov. 3	691	158	77	766
Whip-rack	W. Temple	561,243	June 2	284	71	75	1423
Whip-stock tip	T. W. Bluett	566,129	Aug. 18	2152	525	76	1058
Whirligig. Chameleon	R. F. Donovan	561,379	June 2	560	141	75	1478
Whisk-broom attachment	W. H. Burnett	567,217	Sept. 8	842	199	76	1452
Whisk-broom holder	C. Miner	552,921	Jan. 14	813	198	74	165
Whist apparatus. Duplicate	R. M. Bent	569,603	Oct. 20	1544	363	77	322
Whist apparatus. Duplicate	R. M. Bent	571,185	Nov. 10	1369	320	77	921
Whist. Apparatus for duplicate	W. T. Johnson	555,903	Mar. 3	709	171	74	1262
Whist. Apparatus for playing duplicate	L. W. Heath	561,766	June 9	1303	313	75	1641
Whist. Apparatus for playing duplicate	F. Sanderson	564,225	July 21	1743	408	76	353
Whist. Apparatus for playing duplicate	L. C. Slavens, Jr.	552,732	Jan. 7	416	106	74	80
Whist board. Duplicate	F. H. Butler	568,600	Sept. 29	3302	792	76	1952
Whist board. Duplicate	L. C. Thompson	553,741	Jan. 28	2246	532	74	463
Whistle	H. R. Frisbie	571,357	Nov. 17	1658	393	77	990
Whistle. Automatic	C. H. Hall	572,112	Dec. 1	28	8	77	1283
Whistle-controlling device. Electrical	A. E. Colgate	553,900	Feb. 4	176	37	74	538
Whistles. Apparatus for operating locomotive	J. W. Thomas, Jr.	566,245	Aug. 18	2334	572	76	1094
Whistling and musical rattle	A. A. Freeman	553,958	Feb. 4	287	64	74	557
Wick. Lamp	S. B. Morris	555,257	Feb. 25	2529	607	74	1036
Wick raising or lowering device	A. R. Welch	554,404	Feb. 11	1071	250	74	719
Wicker-work	G. E. O'Hearn	555,180	Feb. 25	2452	581	74	1012
Wig-making apparatus	G. B. Siccardi	553,433	Jan. 21	1702	406	74	346
Winch	J. Bell, W. C. Melville, and J. W. Foster	559,158	Apr. 28	2928	707	75	601
Winch	H. Ekrem	557,074	Mar. 24	2227	674	74	1710
Winch. Hoisting	F. B. Grater	573,326	Dec. 15	2196	525	77	1731
Wind and water engine. Combined	C. A. Bircher	558,475	Apr. 21	1709	413	75	357
Wind-engine	B. F. Coon	555,929	Mar. 10	762	184	74	1292
Wind-engine	D. C. Walling	565,191	Aug. 4	453	{ 108 109 }	76	700
Wind-motor	W. C. Bramwell	556,914	Mar. 24	2556	{ 602 603 }	74	1657
Wind-motor gearing	A. D. Hay	558,949	Apr. 28	2523	612	75	524
Wind-power. Mechanical and electrical development and storage of	W. L. Negbaur and J. J. Feely	554,138	Feb. 4	624	141	74	619
Wind-wheel	D. E. Barnard	565,414	Aug. 4	834	197	76	771
Wind-wheel	N. H. Dolsen	555,806	Mar. 3	527	128	74	1286
Wind-wheel	J. F. Ford	561,074	May 26	3147	727	75	1350
Wind-wheel	F. Locke and D. Kennedy	561,117	June 2	68	18	75	1380
Wind-wheel	J. T. Shilling	565,804	Aug. 11	1562	{ 380 381 }	76	926
Wind-wheel	J. L. Thompson	571,056	Nov. 10	1135	266	77	879
Winding apparatus. Cop	S. W. Wardwell, Jr.	567,871	Sept. 15	1974	474	76	1679
Winding-cone	J. C. Coram	555,564	Mar. 3	134	31	74	1155
Winding-machine	A. B. Morse	572,309	Dec. 1	395	94, 95	77	1354
Winding machine. Cop	S. W. Wardwell, Jr.	562,263	June 16	2110	{ 511 512 513 }	75	1811
Winding machine. Shuttle-cop	S. W. Wardwell, Jr.	555,790	Mar. 3	497	{ 120 121 }	74	1220
Winding machine. Spool or bobbin	W. H. H. Sisum	557,620	Apr. 7	160	41	75	31
Winding machine. Yarn	W. R. Harris	573,268	Dec. 15	2074	497	77	1709
Winding machine. Yarn or thread	E. H. Ryon	558,314	Apr. 14	1419	349	75	286
Winding or spooling machine. Thread	J. W. Foster	554,621	Feb. 11	1450	{ 340 341 }	74	791

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Winding or unwinding bands, aprons, &c. Mechan- ism for operating rollers in	J. Richard	557,024	Mar. 24	2758	{ 654 655 655	{ 74	1695
Winding-spindles. Stop-motion for	M. V. Palmer	564,218	July 21	1734	{ 405 406	{ 76	352
Winding thread on spools. Apparatus for	I. E. Palmer	562,651	June 23	2767	{ 672	{ 75	1950
Winding yarn from chains onto filling-bobbins. Ma- chine for	H. L. Pratt and C. T. Upton	573,288	Dec. 15	2121	{ 510 511	{ 77	1718
Windlass	T. W. Hardin	570,200	Oct. 27	2616	{ 156 157	{ 77	534
Windlass. Ship's	J. P. Manton	569,110	Oct. 6	672	{ 156 157	{ 77	128
Windlassing-machine	J. Mathison	555,521	Mar. 3	61	{ 13	{ 74	1142
Windmill	D. W. Auld	556,396	Mar. 17	1663	{ 388	{ 74	1473
Windmill	L. Ballbach	566,961	Sept. 1	386	{ 90	{ 76	1356
Windmill	W. C. Bramwell	556,803	Mar. 24	2371	{ 558	{ 74	1622
Windmill	F. J. Burucker	562,374	June 23	2304	{ 560	{ 75	1863
Windmill	H. Clinton	570,123	Oct. 27	2471	{ 585	{ 77	506
Windmill	A. Duis	553,230	Jan. 21	1349	{ 328	{ 74	282
Windmill	G. C. Flagg	567,339	Sept. 8	1080	{ 260	{ 76	1494
Windmill	F. M. Goodhue	573,510	Dec. 22	2551	{ 605	{ 77	1815
Windmill	L. A. Haight	564,561	July 21	2319	{ 545	{ 76	456
Windmill	J. W. Henry	564,927	July 28	2950	{ 703	{ 76	591
Windmill	S. Johnson	563,596	July 7	610	{ 142 143	{ 76	114
Windmill	W. A. Johnson	557,681	Apr. 7	284	{ 68	{ 75	54
Windmill	J. H. Miller	566,002	Aug. 18	1947	{ 471 472	{ 76	1020
Windmill	A. B. Morse	554,786	Feb. 18	1740	{ 408	{ 74	862
Windmill	O. E. Peterson and G. L. Curtis	561,914	June 9	1515	{ 366 367	{ 75	1681
Windmill	T. Rogers	577,889	Apr. 7	636	{ 152	{ 75	120
Windmill	W. M. Rowan	557,893	Apr. 7	643	{ 154	{ 75	121
Windmill	J. L. and F. M. Rust	562,246	June 16	2082	{ 505	{ 75	1806
Windmill	W. G. Trafton	559,876	May 12	970	{ 215 216	{ 75	879
Windmill	M. Twiss	574,290	Dec. 29	4019	{ 954	{ 77	2101
Windmill	M. B. Williams and G. J. Bremer	559,473	May 5	217	{ 48, 49	{ 75	724
Windmill	A. Zwiebel	561,040	May 26	3099	{ 714	{ 75	1341
Windmill apparatus	L. Engberg	566,747	Sept. 1	24	{ 6, 7	{ 76	1285
Windmill attachment	M. M. Kingman	564,085	July 14	1500	{ 351	{ 76	294
Windmill-gearing	J. G. Carnahan	565,105	Aug. 4	267	{ 64	{ 76	666
Windmill-gearing	W. W. Day	569,277	Oct. 13	962	{ 230	{ 77	200
Windmill-gearing	C. B. Dempster, J. N. McDowell, and F. H. Kline	566,380	Aug. 25	2587	{ 631 632	{ 76	1156
Windmill power-transmitter	J. J. F. McDermott	559,082	Apr. 28	2744	{ 667	{ 75	566
Windmill pumping attachment	F. Miller	567,990	Sept. 22	2186	{ 526	{ 76	1731
Windmill-regulator	E. A. Leonard	553,170	Jan. 14	1238	{ 301	{ 74	247
Windmill-regulator	F. Rice	556,772	Mar. 24	2320	{ 545	{ 74	1613
Windmill-tower	D. E. Barnard	555,799	Mar. 3	517	{ 126	{ 74	1224
Windmill-towers. Adjustable brace for	J. W. Park	562,971	June 30	3378	{ 812	{ 75	2089
Windmills. Power-transmitting gear for	W. C. Hoffner	569,458	Oct. 13	1267	{ 298	{ 77	256
Window	W. H. Dean	577,633	Apr. 7	240	{ 59	{ 75	45
Window	O. M. Edwards	570,916	Nov. 10	903	{ 210	{ 77	835
Window	J. Endres	570,918	Nov. 10	909	{ 211	{ 77	837
Window	T. W. Gabel	573,402	Dec. 15	2320	{ 554 555	{ 77	1754
Window	E. Gay	557,376	Mar. 31	3381	{ 812	{ 74	1833
Window	J. J. Hall	565,617	Aug. 11	1326	{ 296	{ 76	863
Window	F. C. von Heydebrand und der Lasa	555,162	Feb. 25	2421	{ 574	{ 74	1006
Window	F. C. von Heydebrand und der Lasa	563,765	July 14	898	{ 214	{ 76	184
Window	J. F. Higley	558,009	Apr. 21	2274	{ 551	{ 75	460
Window	E. Hipolito	560,063	May 12	1318	{ 295	{ 75	944
Window	O. K. Hugo	555,726	Mar. 3	409	{ 94, 95	{ 74	1203
Window	J. C. Kahle	574,093	Dec. 29	3624	{ 866	{ 77	2030
Window	C. Lenz and J. Stumpf	556,759	Mar. 24	2298	{ 540 541	{ 74	1609
Window	M. Lesser	572,551	Dec. 8	806	{ 193	{ 77	1447
Window	R. J. Mitchell	565,118	Aug. 4	298	{ 70, 71	{ 76	672
Window	M. W. Neuens	570,948	Nov. 10	961	{ 222 223	{ 77	846
Window	J. F. Parker	555,261	Feb. 25	2595	{ 609	{ 74	1037
Window	G. D. Sanford and J. S. Kilby	567,661	Sept. 15	1624	{ 391	{ 77	1611
Window	F. Starace	574,283	Dec. 29	4011	{ 952	{ 77	2089
Window	F. W. Stevens	566,483	Aug. 25	2806	{ 683 684	{ 76	1198
Window	J. E. Sweet	562,935	June 30	3296	{ 795 796	{ 75	2071
Window	S. C. Taylor	559,468	May 5	206	{ 46	{ 75	721
Window	F. G. Uhlich	555,837	Mar. 3	578	{ 139	{ 74	1235
Window	W. H. Wassmann	553,350	Feb. 25	2755	{ 645	{ 74	1068
Window	W. T. Waterstraat	561,461	June 2	713	{ 175	{ 75	1504
Window	J. Wojton	559,557	May 5	359	{ 86, 87	{ 75	752
Window and blind	A. Sommerfeld	554,463	Feb. 11	1189	{ 277	{ 74	741
Window appliance	J. H. Shull	573,489	Dec. 22	2522	{ 597 598	{ 77	1809
Window. Bay	L. G. Quackenboss	568,041	Sept. 22	2291	{ 555	{ 76	1749
Window-bead fastener	F. C. Smalstig and G. Mayer	565,368	Aug. 4	758	{ 181	{ 76	757
Window-casement	F. Loughran	568,723	Sept. 29	3520	{ 644	{ 76	1995
Window-casing	A. Jones	567,240	Sept. 8	880	{ 211	{ 76	1459
Window casing and screen	M. Zugermayer	559,019	Apr. 28	2641	{ 643	{ 75	548
Window-cleaner	W. E. Allen	553,327	Jan. 21	1528	{ 365	{ 74	313
Window-cleaner	M. J. Barron	559,023	Apr. 28	2646	{ 644	{ 75	548
Window-cleaner	P. Multern	554,077	Feb. 4	501	{ 113	{ 74	597
Window-cleaner	J. Ruckstinat	570,231	Oct. 27	2665	{ 633	{ 77	543

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Window-cleaner's safety-support	H. K. Whitner	559,472	May 5	214	48	75	724
Window-cleaning bracket	S. M. Cooper	564,272	July 21	1829	428	76	369
Window-cleaning chair	J. S. Lynch	565,764	Aug. 11	1497	365	76	914
Window-cleaning chair	H. G. Wimmerling	561,844	June 9	1407	338	75	1659
Window-cleaning chair. Metal	S. Rabinowitz	560,644	May 26	2413	552	75	1209
Window-cleaning device	W. H. Ford	556,722	Mar. 17	2221	518	74	1580
Window-fastener	C. M. Fowler	572,052	Nov. 24	2584	681	77	1237
Window-fastener	J. Lowe	557,134	Mar. 31	2935	703	74	1754
Window-fastener	T. F. Murphy	559,808	May 12	821	193	75	852
Window-fastener	M. F. Robinson	565,300	Aug. 4	652	155	76	736
Window-fastener. Storm-	J. Burns	561,962	June 16	1604	390	75	1718
Window-frame	J. P. Doray	570,701	Nov. 3	598	122	77	736
Window-frame	A. Erklm	565,849	Aug. 11	1635	400	76	940
Window-frame	F. X. Payment and J. C. Hartig	554,088	Feb. 4	525	117	74	601
Window-guard	G. W. Pardee and B. McAleese	570,713	Nov. 3	543	126	77	739
Window-guard fastening device	L. F. Ryan	560,937	May 26	2940	675	75	1310
Window in shape of a ladder. Safety-	F. Scherrer	573,165	Dec. 15	1892	455	77	1677
Window-lock	W. Madison	559,982	May 12	1163	259	75	918
Window-lock	T. Robertson	570,503	Nov. 3	122	30	77	661
Window-lock	V. Tolf	563,820	July 14	996	237	76	203
Window-locking device	E. H. Beekman	569,317	Oct. 13	1042	247	77	215
Window-operating device	M. M. Canfield	570,841	Nov. 3	769	176	77	782
Window or buggy washer	C. C. Bridwell	559,510	May 5	275	65	75	735
Window or door screen	H. M. D. Strader	553,793	Jan. 28	2316	550	74	477
Window or skylight operator	J. Woodall	561,848	June 9	1416	340	75	1662
Window pocket and cover	J. M. Thorpe	560,950	May 26	2959	679	75	1314
Window. Reversible.	S. S. Bradshaw	572,521	Dec. 8	759	181	77	1438
Window-screen	W. C. Ackley	573,803	Dec. 22	3074	730	77	1915
Window-screen	S. J. Allinson	560,563	May 19	2214	506	75	1156
Window-screen	P. H. Baukol	567,370	Sept. 8	1142	274	76	1505
Window-screen	A. Beard	567,214	Sept. 8	838	198	76	1452
Window-screen	J. A. Crocker	563,948	July 14	1248	291	76	247
Window-screen	W. T. Jones	553,244	Jan. 21	1371	334	74	286
Window-screen	J. J. Lincks	553,006	Jan. 14	952	230	74	192
Window-screen	A. McCandless	570,326	Oct. 27	2380	684	77	582
Window-screen	F. C. Miller	564,529	July 21	2247	527	76	445
Window-screen	G. K. Monroe	554,192	Feb. 4	708	160	74	635
Window-screen	O. G. Niehaus	566,929	Sept. 1	333	78	76	1346
Window-screen	W. B. Phillips	562,095	June 16	1841	417	75	1760
Window-screen	W. Scott	559,499	May 5	259	61	75	732
Window-screen	C. C. Wheeler	569,732	Oct. 20	1792	425	77	367
Window-screen. Adjustable	W. J. Greenman	565,266	Aug. 4	604	142	76	726
Window-screen. Adjustable	J. A. Smith	573,365	Dec. 15	2265	540	77	1744
Window-screen. Rolling	S. H. Casselberry	566,284	Aug. 18	2391	586	76	1104
Window-screen. Sliding	J. Shankey	565,304	Aug. 4	659	158	76	737
Window securer. Storm-	G. B. Shepard and A. D. Pope	564,294	July 21	1862	436	76	374
Window washing and cleaning device	J. Kiefer	569,105	Oct. 6	666	154	77	127
Windows for cleaning. Device for operating	H. Taylor	560,948	May 26	2956	678	75	1313
Windows. Lead for glazed	J. Lamb	563,189	June 30	3761	899	75	2162
Windows. Locking device for swinging-sash	L. G. Abbott and J. P. Moody	552,950	Jan. 14	865	210	74	176
Windows, &c. Machine for cleaning	C. Kinkel	574,202	Dec. 29	3857	919	77	2069
Windower	C. C. Rex	554,794	Feb. 18	1748	410	74	864
Wire-and-slat-weaving machine	O. F. Matteson	563,197	June 30	3775	903	75	2164
Wire-bars by electrodeposition. Apparatus for producing	J. B. Forsyth and C. R. Fletcher	570,125	Oct. 27	2474	586	77	507
Wire-bender	M. T. Deek	566,379	Aug. 25	2585	631	76	1156
Wire bending and cutting machine	F. B. Griswold	553,908	Feb. 4	189	40, 41	74	540
Wire-coiler	C. H. Hard	554,929	Feb. 18	1991	471	74	909
Wire confining-clamp. Reeled	C. R. Hartmann	564,070	July 14	1469	344	76	289
Wire-connector	A. Gartner	561,388	June 2	574	144	75	1480
Wire-connector	A. Gartner	569,752	Oct. 20	1835	436	77	374
Wire-connector	A. Gartner	569,753	Oct. 20	1836	436	77	374
Wire-connector	H. Haug	569,713	Oct. 20	1765	419	77	362
Wire-connector	C. H. McIntire	557,690	Apr. 7	295	71	75	56
Wire-connector	D. M. Robertson	561,438	June 2	675	165	75	1497
Wire-covering machine	G. L. Brownell	560,682	May 26	2484	569	75	1223
Wire-cutter	A. G. Wilkins	568,010	Sept. 22	2224	537	76	1737
Wire-drawing apparatus	W. L. Hayes	565,748	Aug. 11	1470	359	76	909
Wire-drawing machine	L. H. Brightman	564,302	July 21	1871	439	76	376
Wire-drawing machine	C. H. Morgan	553,353	Jan. 21	1576	376	74	322
Wire-drawing machine	J. H. O'Donnell	560,278	May 19	1732	392	75	1071
Wire fabric. Loom for weaving	W. Orr	563,613	July 7	639	148	76	120
Wire-fabric machine	W. C. Avery	571,079	Nov. 10	1185	278	77	887
Wire-fabric machine	J. C. and W. J. Pope	567,360	Sept. 8	1126	270	76	1502
Wire-fastener	R. E. Curtice	553,748	Jan. 28	2254	534	74	465
Wire-fastener	J. C. Kremer	571,271	Nov. 10	1517	358	77	949
Wire-fastener	W. Wait	556,521	Mar. 17	1910	445	74	1519
Wire-feeding device	J. W. Granger	562,222	June 16	2043	494	75	1799
Wire frame. Spool-	R. Fraser	563,154	June 30	3697	885	75	2149
Wire, &c., from copper. Apparatus for manufactur-	G. A. Dick	572,872	Dec. 8	1367	330	77	1559
Wire gate	G. Roth	564,162	July 14	1645	384	76	322
Wire-grooving machine	W. G. Burnham	569,087	Oct. 6	639	146	77	123
Wire handles. Machine for making	D. L. Hill	554,444	Feb. 11	1154	268	74	735
Wire-handling implement	T. F. Stone, Jr	567,204	Sept. 8	821	195	76	1449

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Wire-holder	L. M. Hakansson	562,528	June 23	2549	619	75	1910
Wire into lengths. Machine for measuring and cutting torsion braided	D. A. Cobb	555,638	Mar. 3	268	63	74	1178
Wire joint	C. E. Brown	573,386	Dec. 15	2298	549	77	1751
Wire. Machine for inserting screw-threaded	S. W. Robinson	554,200	Feb. 4	720	{ 163 164 }	74	637
Wire machines. Stop-motion device for barbed	W. H. Dailey	556,622	Mar. 17	2063	483	74	1547
Wire. Manufacture of tinned	F. H. Daniels	573,573	Dec. 22	2658	631	77	1835
Wire mat	W. Elmes	558,015	Apr. 7	908	227	75	170
Wire. Means for imparting helical forms to	D. A. Cobb	573,763	Dec. 22	3009	713	77	1902
Wire. Method of and apparatus for drawing	T. A. Edison	563,462	July 7	379	88	76	73
Wire-netting	H. K. Swinscoe	573,370	Dec. 15	2272	542	77	1746
Wire-netting machine	G. F. Wright	561,303	June 2	424	105	75	1452
Wire-netting machines. Cop-holder for	A. E. Barlow	554,358	Feb. 11	1001	231	74	705
Wire or cord. Machine for covering	G. L. Brownell	560,681	May 26	2482	569	75	1223
Wire or metal bars. Machine for truing flat	W. C. Stiles	556,724	Mar. 17	2224	{ 518 519 }	74	1581
Wire or rod cutter	W. H. Flinn	552,831	Jan. 7	623	151	74	117
Wire-reel	C. H. Faut	570,920	Nov. 10	912	211	77	837
Wire-reel	F. Forsberg	571,156	Nov. 10	1329	{ 300 310 }	77	914
Wire-reel	O. M. Knox	555,516	Mar. 3	53	12	74	1140
Wire ropeway	J. T. Ludlow	572,305	Dec. 1	390	92, 93	77	1353
Wire-rope ways. Clip for	A. Painter	569,228	Oct. 13	884	210	77	164
Wire-splicing machine	W. F. Kintzing	566,688	Aug. 25	3106	759	76	1255
Wire-splicing tool	L. L. Peck	563,684	July 7	753	178	76	142
Wire-splicing tool	G. W. Tinsley	561,143	June 2	115	31	75	1389
Wire spokes for bicycles, &c. Machine for making	G. J. Capewell and W. G. Allen	556,724	June 30	3812	{ 913 914 }	75	2171
Wire springs. Machine for making spiral	C. A. V. Hällgren	562,529	June 23	2550	620	75	1910
Wire-stay-weaving device	E. M. Crouch	568,746	Oct. 6	54	13	77	13
Wire-stay-weaving device	E. F. St. John	567,053	Sept. 1	565	132	76	1389
Wire-straightening machine	F. D. Van Arsdale	568,366	Sept. 29	2895	696	76	1878
Wire-stretcher	E. S. Barrows	568,829	Oct. 6	194	47	77	39
Wire-stretcher	R. C. Bolon	554,765	Feb. 18	1707	400	74	856
Wire-stretcher	W. C. Carr	559,513	May 5	279	66	75	736
Wire-stretcher	J. W. Cosmbe	559,265	Apr. 28	3133	757	75	639
Wire-stretcher	W. C. Cross	563,845	July 14	1053	248	76	212
Wire-stretcher	G. S. and R. J. Dorney	553,338	Jan. 21	1547	369	74	317
Wire-stretcher	M. Ewart	565,160	Aug. 4	392	92	76	690
Wire-stretcher	D. H. Folk	564,065	July 14	1462	343	76	287
Wire-stretcher	E. W. Forester	565,613	Aug. 11	1222	295	76	862
Wire-stretcher	W. L. Green	553,236	Jan. 21	1359	331	74	283
Wire-stretcher	T. M. Guest	563,481	July 7	422	97	76	81
Wire-stretcher	M. W. Holden	559,133	Apr. 28	2881	694	75	592
Wire-stretcher	W. C. Hudson	561,891	June 9	1485	358	75	1675
Wire-stretcher	M. Morgan	562,015	June 16	1695	412	75	1735
Wire-stretcher	W. I. Morrow	572,349	Dec. 1	456	107	77	1365
Wire-stretcher	G. F. Pratt	569,229	Oct. 13	885	210	77	164
Wire-stretcher	G. H. Shellabarger	562,928	June 30	3280	793	75	2067
Wire-stretcher	C. C. Shepard	560,867	May 26	2818	646	75	1287
Wire-stretcher	P. J. and P. W. Sommer	566,030	Aug. 18	1986	481	76	1028
Wire-stretcher	J. C. Walker	569,897	Oct. 20	2066	491	77	417
Wire-stretcher	W. T. Willie	560,956	May 26	2970	681	75	1316
Wire-stretcher	W. T. Willie	566,261	Aug. 18	2357	578	76	1098
Wire-stretcher	G. G. Witham	563,900	July 14	1161	273	76	233
Wire-stretcher and domestic scale. Combination	M. Gross	572,054	Nov. 24	2886	681	77	1238
Wire-stretcher and reel-carrier	A. L. Pruitt	570,817	Nov. 3	721	165	77	772
Wire stretcher and splicer	J. B. G. Massey	560,731	May 26	2559	589	75	1238
Wire stretcher and splicer. Combination clamping	E. E. Lyon	558,086	Apr. 14	1039	254	75	212
Wire stretcher and tightener	W. Pickford	563,409	July 7	291	66	76	58
Wire stretcher and tightener	J. M. Wilson	568,823	Oct. 6	188	45	77	38
Wire-stretcher for corner-posts	C. F. Ruttman	556,214	Mar. 10	1302	304	74	1389
Wire stretcher. Woven	J. W. Hutchison	573,150	Dec. 15	1872	451	77	1673
Wire-stretching tongs	J. E. Blackmore	554,810	Feb. 18	1773	418	74	869
Wire-stripping tool	W. McMurtrie	560,524	May 19	2145	490	75	1145
Wire-swaging machine	W. H. Wiggin	565,821	Aug. 11	1589	389	76	931
Wire-tightener	H. W. Vail, Jr.	568,056	Sept. 22	2326	562	76	1754
Wire twister and tightener	G. A. Stafford	556,480	Mar. 17	1819	423	74	1503
Wire-twisting machine	J. A. Barrett	555,146	Feb. 25	2396	{ 568 569 }	74	1000
Wire-twisting machine	J. A. Barrett. (Reissue)	11,539	May 19	2407	551	75	1190
Wire-weaving loom and shuttle	J. W. White	560,179	May 12	1530	{ 345 346 }	75	984
Wire-weaving machine	W. W. McCallip	562,641	June 23	2753	{ 668 669 }	75	1948
Wire-winding machine. Stay-	W. G. Phillips	568,791	Oct. 6	137	33	77	28
Wires. Brace for intersecting	C. K. Wolf	567,059	Sept. 1	572	134	76	1390
Wood and pulp plates. Apparatus for shaping	F. D. Tiff	569,685	Oct. 20	1702	{ 402 403 }	77	351
Wood-bending machine	C. Seymour	560,008	May 12	1206	268	75	924
Wood blanks and moldings. Machine for carving straight or curved	L. C. H. Charrier	553,393	Jan. 21	1635	{ 389 390 391 }	74	334
Wood bundler. Kindling-	D. A. Greene	562,722	June 23	2898	701	75	1975
Wood-bundling machine	D. A. Greene	573,971	Dec. 29	3406	{ 816 817 }	77	1989
Wood, &c. Composition of matter as substitute for	G. Archbold	570,361	Oct. 27	2934	.....	77	593
Wood-cutting machine	W. F. Hutchinson	552,614	Jan. 7	191	52, 53	74	38
Wood-drying kiln. Kindling-	O. H. Smith	571,407	Nov. 17	1733	{ 413 414 }	77	1004
Wood felt. Apparatus for making	R. Sputh	571,580	Nov. 17	2039	485	77	1059
Wood-filler composition	C. G. Edwards	553,209	Jan. 14	1314	74	261
Wood-grinder	F. Hiorth	555,094	Feb. 25	2309	549	74	983

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wood-grinding apparatus.....	E. F. Millard.....	567,720	Sept. 15	1716	412	76	1629
Wood. Impregnating.....	A. D. Tyler, Jr.....	553,547	Jan. 28	1906	451	74	401
Wood-molding machine.....	F. H. Van Houten.....	558,005	Apr. 7	886	222	75	166
Wood or rattan twisting machine.....	O. H. Ordway.....	556,203	Mar. 10	1234	300		1386
Wood-preserving plants. Car and retort for.....	W. G. Curtis and J. D. Isaacs.....	570,746	Nov. 3	606	139	77	749
Wood. Process of and apparatus for saturating.....	C. Howard.....	557,271	Mar. 31	3198	768	74	1797
Wood-rim-bending machine.....	L. Rastetter.....	565,923	Aug. 18	1789	435	76	988
Wood rims or bands. Apparatus for making.....	W. W. Stall and J. T. Walton.....	555,625	Mar. 3	237	56		1173
Wood surfaces. Ornamenting.....	A. Wilcke.....	566,046	Aug. 18	2006	.....	76	1032
Wood, &c. Tool for working.....	P. Jury, Fils, and E. Anger.....	564,753	July 28	2659	632	76	537
Wood. Vulcanizing.....	J. T. Lloyd.....	566,591	Aug. 25	2958	722	76	1227
Wooden vessel.....	T. K. Parrish.....	563,683	July 7	752	177	76	142
Wooden vessel consisting of veneers.....	C. Wittkowsky.....	565,655	Aug. 11	1303	315	76	878
Woodworker's clamp.....	A. Wilson.....	573,745	Dec. 22	2987	707	77	1898
Woodworking-machine.....	D. Bullock.....	571,186	Nov. 10	1370	320	77	921
Woodworking-machine.....	H. Harrer.....	574,088	Dec. 29	3604	861	77	2026
Woodworking-machine.....	R. Schleicher.....	569,940	Oct. 20	2151	863		433
Woodworking-machine. Combination.....	L. F. Parks.....	557,222	Mar. 31	3104	864	74	1781
Woodworking-machines. Chain-feed for.....	C. W. H. Blood.....	562,756	June 23	2955	509	75	1987
Woodworking machinery.....	E. Judd.....	555,378	Feb. 25	2804	510		1077
Wood and product therefor. Process of cleaning.....	F. Raschig.....	567,412	Sept. 8	1211	716	76	1518
Wool, &c. Apparatus for cleaning.....	G. Riche and A. Rivret.....	562,975	June 30	3383	813	75	2090
Wool carbonizing and drying machine.....	J. M. E. Lekeux.....	568,691	Sept. 29	3466	814		1984
Wool-cleaning apparatus.....	O. Reichenbach.....	555,885	Mar. 3	675	829	74	1254
Wool-drying machine.....	C. Schrebler.....	554,838	Feb. 18	1827	162	74	880
Wool-fat. Apparatus for extracting.....	F. N. Turney.....	573,727	Dec. 22	2957	163		1892
Wool-oiling machine.....	G. A. Spencer.....	553,628	Jan. 28	2041	699	77	425
Wool. Process of and apparatus for treating.....	J. C. Anderson.....	553,222	Jan. 21	1333	700	74	279
Wool-washing machine.....	M. Musgreave.....	554,289	Feb. 11	880	701	74	683
Wool-washing machine.....	L. A. Peckham.....	558,305	Apr. 14	1399	341	75	282
Wool-washing machine.....	F. G. and A. C. Sargent.....	569,980	Oct. 20	2212	342		443
Work-bench and tool-box. Combination.....	T. E. Doelger.....	564,782	July 28	2703	343	76	545
Work-holding device.....	E. N. Gates.....	573,325	Dec. 15	2194	344		1731
Work-table. Folding.....	J. H. Ormsby.....	559,743	May 5	652	345	77	806
Woven bag.....	J. A. Knight.....	570,174	Oct. 27	2558	608	77	524
Woven fabric.....	J. Bister.....	565,829	Aug. 11	1603	392	76	934
Woven figured fabric.....	J. Zimmermann.....	567,286	Sept. 8	978	232	76	1476
Wrapper for newspapers, &c.....	B. Williams.....	558,244	Apr. 14	1302	318	75	263
Wrapper-opening device.....	C. L. Duval.....	568,340	Sept. 29	2824	680	76	1865
Wrapping and addressing machine. Newspaper.....	W. A. Beebe.....	569,991	Oct. 27	2234	530	77	461
Wrapping and securing wrappers around boxes, &c. Machinery for.....	A. Stearns.....	570,615	Nov. 3	332	531		700
Wrapping-machine.....	E. E. L. and I. D. Boyer.....	568,656	Sept. 29	3403	532	76	1972
Wrapping machine. Newspaper.....	L. C. Crowell.....	561,567	June 9	906	82		1566
Wrapping machine. Package.....	J. D. Maclay and A. J. Seaman.....	565,479	Aug. 11	957	814	76	815
Wrapping machine. Parcel.....	M. W. Schloss.....	566,540	Aug. 25	2891	815		1214
Wrapping machine. Parcel.....	M. W. Schloss.....	574,174	Dec. 29	3786	217	77	2058
Wrapping soap, &c. Machine for.....	M. Kirshner.....	565,082	Aug. 4	208	218		656
Wreck-raising appliance.....	J. Bell, W. C. Melville, and J. W. Foster.....	566,441	Aug. 25	2709	52, 53	76	1180
Wrench: See Bicycle-wrench. Pipe-wrench. Buggy-wrench. Pipe and nut wrench. Chain wrench. Ratchet-wrench. Lock-jaw wrench. Rim-wrench. Monkey-wrench. Socket-wrench. Nut-wrench. Sucker-rod wrench. Nut and pipe wrench. Wagon-wrench.	R. Aldrich and J. V. Chamberlin.....	564,816	July 28	2753	656	76	554
Wrench.....	M. W. Ansterburg.....	562,112	June 16	1868	453	75	1766
Wrench.....	H. C. Barlow.....	573,637	Dec. 22	2796	661	77	1864
Wrench.....	L. H. Barnes.....	572,857	Dec. 8	1346	324	77	1554
Wrench.....	W. L. Bedford.....	552,740	Jan. 7	432	109	74	83
Wrench.....	C. A. Bigelow and T. C. Gates.....	573,806	Dec. 22	3078	731	77	1916
Wrench.....	A. Butterfield.....	562,117	June 16	1875	454	75	1767
Wrench.....	R. M. Carroll.....	572,191	Dec. 1	165	40	77	1310
Wrench.....	P. P. Collins.....	555,677	Mar. 3	337	77	74	1190
Wrench.....	H. A. Coolidge.....	562,329	June 16	2220	540	75	1833
Wrench.....	A. S. Courtwright and C. W. Meggenhofen.....	562,709	June 23	2872	697	75	1970
Wrench.....	E. Cunningham.....	569,372	Oct. 13	1133	270	77	232

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Wrench	L. P. Davidson	554,991	Feb. 18	2102	500	74	930
Wrench	H. E. and C. F. Downey	566,299	Aug. 25	2420	594	76	1126
Wrench	T. B. Ellis	558,451	Apr. 14	1660	399	75	331
Wrench	R. C. Ellrich	553,059	Jan. 14	1041	253	74	209
Wrench	F. Ezzell	574,314	Dec. 29	4053	962	77	2107
Wrench	J. M. Flower	567,588	Sept. 15	1503	360	76	1587
Wrench	S. M. Friede	564,513	July 21	2222	521	76	440
Wrench	T. Geisel	554,596	Feb. 11	1408	330	74	783
Wrench	J. C. Gregory	556,049	Mar. 10	1003	239	74	1336
Wrench	L. L. Hall	573,651	Dec. 22	2830	668	77	1869
Wrench	G. F. Johnson	556,151	Mar. 10	1189	278	74	1370
Wrench	F. S. and C. W. Kaufman	574,094	Dec. 29	3626	866	77	2030
Wrench	E. Lane	560,508	May 19	2122	485	75	1141
Wrench	W. J. Leach	563,193	June 30	3768	901	75	2163
Wrench	F. E. Lodetti	553,008	Jan. 14	954	231	74	193
Wrench	P. Lorang	554,284	Feb. 11	872	201	74	681
Wrench	A. K. Lovell	559,901	May 12	1023	226	75	888
Wrench	H. J. Martin	557,311	Mar. 31	3271	784	74	1811
Wrench	M. D. Martindale	568,692	Sept. 29	3468	830	76	1984
Wrench	C. C. Matthews	564,442	July 21	2115	494	76	420
Wrench	G. W. McElroy	570,856	Nov. 3	796	183	77	787
Wrench	D. Metcalfe	563,049	June 30	3497	840	75	2112
Wrench	R. McMillen	568,365	Sept. 29	2862	688	76	1872
Wrench	W. L. Murphey	560,298	May 19	1760	401	75	1076
Wrench	J. M. Palmer	558,304	Apr. 14	1398	341	75	282
Wrench	J. Richard and F. Colman	573,702	Dec. 22	2916	689	77	1884
Wrench	W. H. Rush	554,225	Feb. 4	759	173	74	645
Wrench	F. L. Sanders	560,938	May 26	2942	675	75	1311
Wrench	M. D. Schaller	573,487	Dec. 22	2517	596	77	1808
Wrench	G. L. Seymour	568,284	Sept. 22	2721	652	76	1830
Wrench	J. Shafer	561,823	June 9	1366	328	75	1652
Wrench	F. S. Smith	562,497	June 23	2498	605	75	1900
Wrench	H. Sprague	556,443	Mar. 17	1758	408	74	1492
Wrench	W. C. Stokes	572,035	Nov. 24	2845	669	77	1230
Wrench	F. P. Thompson	552,795	Jan. 7	545	133	74	102
Wrench	J. F. Tiner	573,313	Dec. 15	2181	520	77	1728
Wrench	J. Traudt, Jr.	555,716	Mar. 3	391	91	74	1200
Wrench	S. W. Wardwell, Jr.	573,940	Dec. 29	3328	794 795	77	1976
Wrench	S. W. Wardwell, Jr.	573,941	Dec. 29	3329	795	77	1976
Wrench	J. M. Watson	554,157	Feb. 4	659	148	74	625
Wrench	M. Wenger	572,185	Dec. 1	156	38	77	1308
Wrench	M. Wenger	572,186	Dec. 1	158	38	77	1308
Wrench	J. D. Wilson	555,797	Mar. 3	515	125	74	1223
Wrench	T. Wilson	565,318	Aug. 4	620	163	76	741
Wrench	J. E. Wood	573,070	Dec. 15	1727	414	77	1646
Wrench and thill-support. Combined.	J. E. Vincent	554,846	Feb. 18	1842	434	74	883
Wrench attachment	B. E. Keen	568,087	Sept. 22	2390	576	76	1767
Wrenches Apparatus for forming sliding jaws for Wringer:	J. P. Lavigne	560,038	May 12	1268	285	75	935
See Clothes-wringer. Mop-wringer.							
Wringer-roller	C. A. Kohl	562,542	June 23	2569	624	75	1913
Wrist-rest for stringed instruments	J. Apple	556,238	Mar. 10	1344	316	74	1397
Writer's hand-support	W. L. Yarbrough	565,374	Aug. 4	765	182	76	759
Writing. Aid to	G. Carlson	558,632	Apr. 21	1966	477	75	404
Writing-machine	J. M. Fairfield	566,301	Aug. 25	2426	585	76	1127
Writing purposes. Hand-pad for	W. T. Martin	565,765	Aug. 11	1498	360	76	915
X-rays. Bulb for	J. von der Kammer	574,065	Dec. 29	3568	852	77	2020
Xanthin derivatives. Making	E. Fischer	569,489	Oct. 13	1318		77	265
Xanthin derivatives. Making	E. Fischer	569,490	Oct. 13	1320		77	265
Yacht-sailing device	D. McLean	559,983	May 12	1164	259 260	75	918
Yarn-beam tension-regulator	H. J. Trost	565,945	Aug. 18	1828	444	76	996
Yarn-separator	A. D. Chandler	553,392	Jan. 21	1632	389	74	334
Yarn-skeins. Apparatus for holding	J. T. Hammonds	572,985	Dec. 15	1581	379	77	1617
Yarn-testing machine	M. H. Tomkins	570,970	Nov. 10	992	230	77	851
Yeast-cakes. Machine for cutting	C. Denekas	571,345	Nov. 17	1637	389	77	987
Yeast. Making	J. Blumer and C. Schlagenhauser	563,124	June 30	3652		75	2141
Yeast. Preparing pressed	E. Bruun. (Reissue)	11,550	June 30	3854		75	2178
Yielding device	J. F. Raders	573,534	Dec. 22	2590	614	77	1822
Yoke center. Neck	W. E. Haight	573,181	Dec. 15	1925	462	77	1683
Yoke center. Neck	T. G. Mandt	566,782	Sept. 1	78	20	76	1295
Yoke fastener. Neck	T. Thompson	559,008	Apr. 28	2619	638	75	543
Yoke. Muzzle	T. L. Courtney	556,306	Mar. 10	1500	348	74	1426
Yoke. Neck	J. and J. W. Anderson	557,751	Apr. 7	418	98	75	79
Yoke. Neck	J. S. Brown	570,785	Nov. 3	666	153	77	761
Yoke. Neck	L. Eldridge	572,530	Dec. 8	773	124	77	1440
Yoke. Neck	R. Evans	573,507	Dec. 22	2549	604	77	1814
Yoke. Neck	N. L. Holmes	562,184	June 16	1985	480 481	75	1788
Yoke. Neck	H. P. Kidney	553,784	Jan. 28	2305	546	74	475
Yoke. Neck	J. H. Storch	571,412	Nov. 17	1744	416	77	1006
Yoke. Neck	J. W. Walter	554,751	Feb. 18	1675	395	74	850
Yoke. Neck	H. W. Wilcox	557,041	Mar. 24	2781	661	74	1700
Zinc and lead by electrolysis. Apparatus for pro- ducing	R. O. Lorenz	559,729	May 5	633	152	75	803
Zinc. Apparatus for electrolytic production of	R. Encke and O. Frölich	558,052	Apr. 14	980	240	75	202
Zinc. Apparatus for refining	G. M. Holstein	554,185	Feb. 4	702	158	74	633
Zinc. Process of and apparatus for refining	G. M. Holstein and J. D. James	554,184	Feb. 4	700	157 158	74	633
Zirconium. Manufacturing tannate of	A. Müller-Jacobs	558,197	Apr. 14	1216		75	247

ALPHABETICAL LIST OF DESIGNS.

Design.	Name.	No.	Date.	Official Gazette.	
				Volume.	Page.
Advertising-card	T. S. Ingraham	26,309	Nov. 17	77	1118
Advertising-card	F. B. Reynolds	25,399	Apr. 21	75	498
Advertising-stand	M. Blumenthal	26,370	Dec. 1	77	1422
Advertising-stand	G. M. Tourtellotte	25,922	Aug. 11	76	954
Air-furnace	L. P. D. Yost	26,117	Sept. 29	76	1998
Alphabet	D. M. Moore	26,428	Dec. 22	77	1930
Antirattler	S. H. Morton	25,460	May 5	75	827
Apparel. Metal slide for wearing.	J. Obrig	25,351	Apr. 7	75	174
Armature-spider	H. G. Reist	25,528	May 19	75	1194
Ash-pan	F. Fairley and E. E. Gunston	26,151	Oct. 6	77	145
Ax	W. A. Grimes	25,154	Feb. 11	74	800
Ax. Broad	J. Barbour	26,335	Nov. 24	77	1265
Axle-box frame	W. S. Adams	25,101	Jan. 28	74	489
Axle-skein collar	J. M. Studebaker	26,223	Oct. 27	77	625
Back-band hook	H. E. Wetherbee	26,173	Oct. 13	77	305
Back-band loop	L. N. Dantzler	25,711	June 30	75	2182
Badge	J. D. Adams	25,499	May 19	75	1190
Badge	C. L. Anderson	25,908	Aug. 11	76	953
Badge	J. M. Banker	25,543	May 26	75	1354
Badge	J. S. Blinn	25,554	June 2	75	1536
Badge	C. G. Bradshaw	25,037	Jan. 7	74	136
Badge	L. A. Brown	25,544	May 26	75	1354
Badge	L. A. Brown	25,553	June 2	75	1535
Badge	D. W. Casseday	26,145	Oct. 6	77	144
Badge	J. J. Cluin	25,555	June 2	75	1536
Badge	J. J. Cluin	25,556	June 2	75	1536
Badge	F. C. Combes	25,113	Feb. 4	74	645
Badge	F. A. Darling	25,909	Aug. 11	76	953
Badge	H. Dotzenroth	25,688	June 30	75	2180
Badge	A. B. Ellison	25,752	July 7	76	154
Badge	T. A. Gerbig	26,420	Dec. 22	77	1929
Badge	T. P. Halpin	26,454	Dec. 29	77	2125
Badge	A. Harrison	25,304	Mar. 31	74	1886
Badge	H. W. Harvey	25,824	July 21	76	469
Badge	J. W. Heskett	26,170	Oct. 13	77	305
Badge	D. Kane	25,545	May 26	75	1354
Badge	C. W. Lemaster	26,016	Sept. 15	76	1704
Badge	F. Lucking	25,452	May 5	75	826
Badge	G. W. MacKenzie	26,233	Oct. 27	77	626
Badge	J. H. Mishler, F. B. Stumpf, and M. E. Donahay	26,455	Dec. 29	77	2125
Badge	F. M. Oehley	26,375	Dec. 8	77	1587
Badge	C. Reblin	25,687	June 30	75	2180
Badge	G. A. Schlechter	25,244	Mar. 10	74	1436
Badge	J. F. Shipp	25,767	July 14	76	327
Badge	J. L. Sibley	25,657	June 23	75	1998
Badge	G. A. Skelly and A. M. Anderson	25,245	Mar. 10	74	1436
Badge	H. A. Smith	25,467	May 12	75	986
Badge	R. F. Stone	26,376	Dec. 8	77	1587
Badge	H. M. Throop	25,500	May 19	75	1190
Badge	C. Wendell	25,985	Sept. 8	76	1565
Badge	J. F. Whiting and E. Cather	26,171	Oct. 13	77	305
Badge	C. B. Wilkinson	25,055	Jan. 21	74	368
Badge	J. A. Williams	25,305	Mar. 31	74	1886
Badge	C. C. Groomes	25,656	June 23	75	1998
Badge. Button	J. S. Blinn	25,406	Apr. 21	75	499
Badge. Campaign	J. S. Blinn	25,453	May 5	75	826
Badge. Campaign	J. S. Blinn	26,191	Oct. 20	77	445
Badge. Campaign	W. F. Brockway	26,144	Oct. 6	77	144
Badge. Campaign	C. F. Garaghty	25,986	Sept. 8	76	1565
Badge. Campaign	J. H. Walker and H. Jifkins	26,264	Nov. 17	77	1112
Badge. Campaign	W. Wallace	26,453	Dec. 29	77	2125
Badge or button	T. G. Vivion	26,013	Sept. 15	76	1704
Badge or pin. Campaign	W. R. Dutemple	26,013	Sept. 29	76	1997
Badge or similar article	F. E. Waterman	26,101	Sept. 15	76	1704
Badge-pin	M. V. Hammack	26,014	Sept. 15	76	1704
Badge-pin	M. V. Hammack	26,015	Sept. 15	76	1704
Bagatelle-board	W. L. Sommer	26,187	Oct. 13	77	308
Baking-tin	E. J. Dykeman	26,152	Oct. 6	77	145
Balance-weight	L. J. Brown	26,357	Dec. 1	77	1420
Ball-score cards. Base-plate for base	H. Welch	25,587	June 2	75	1540
Bank. Savings	J. F. Langton	26,198	Oct. 20	77	446
Banner. Christmas	F. Turner	25,984	Sept. 8	76	1565
Basket	L. Bennett	25,927	Aug. 11	76	955
Basket. Fruit	T. R. Woodruff	26,389	Dec. 8	77	1589
Basket wear-plate	W. B. Thurlow	25,994	Sept. 8	76	1566
Bath. Bidet and foot	P. H. Pendergast	26,118	Sept. 29	76	1998
Bath. Bidet and foot	C. H. Pendergast	26,331	Nov. 24	77	1264
Bath-tub	P. F. Arrott	25,896	Aug. 4	76	779
Bath-tub	D. D. Buick	26,084	Sept. 22	76	1847
Bath-tub rim	D. D. Buick	26,083	Sept. 22	76	1847
Bed end. Metal	E. T. McKaig	25,996	Sept. 8	76	1566

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette	
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Bed-pan	W. M. Searby	25,728	June 30	75	2185
Bedstead	M. G. Merritt	25,929	Aug. 11	76	956
Bedstead	M. G. Merritt	26,449	Dec. 22	77	1933
Bedstead	M. G. Merritt	26,450	Dec. 22	77	1933
Bedstead	G. Semel	26,415	Dec. 15	77	1775
Bedstead head or foot board	E. C. Baynes	25,417	Apr. 21	75	500
Bell case. Electric	E. G. Worley	25,842	July 28	76	603
Belt-clip	M. Rubin	25,434	Apr. 28	75	668
Belt-pin	B. Rice	25,770	July 14	76	327
Belt-pin	S. J. Thomas	26,192	Oct. 20	77	446
Belt-plate	R. Hickman	25,937	Aug. 18	76	1106
Bicycle-alarm	P. E. Matthes	25,880	Aug. 4	76	777
Bicycle-bag	L. Dennies	25,618	June 9	75	1699
Bicycle brace or fork	C. L. Travis	26,342	Nov. 24	77	1266
Bicycle-cover	G. E. Constantin	25,879	Aug. 4	76	777
Bicycle crank-axle hanger	I. D. Lengel	26,341	Nov. 24	77	1265
Bicycle crank-shaft	W. S. Ward	26,032	Sept. 15	76	1706
Bicycle fork-crown	A. Bach	25,335	Mar. 31	74	1890
Bicycle fork-crown	F. F. Chrisman	25,281	Mar. 24	74	1722
Bicycle-fork ends. Thimble for	C. F. Meilink	26,360	Dec. 1	77	1420
Bicycle-frame	L. G. Billings	26,179	Oct. 13	77	306
Bicycle-frame	F. T. Fowler	25,078	Jan. 21	74	371
Bicycle-frame	E. N. Gates	26,263	Nov. 10	77	967
Bicycle-frame	E. M. Graham	26,285	Nov. 17	77	1114
Bicycle-frame joint-lug	L. Sturges	25,999	Sept. 8	76	1567
Bicycle-handle	M. Guy	25,591	June 2	75	1540
Bicycle handle-bar	W. E. Blake	26,445	Dec. 22	77	1933
Bicycle handle-bar	P. Gendron	25,065	Jan. 21	74	369
Bicycle-handle clamp	F. C. Rockwell	25,953	Aug. 18	76	1108
Bicycle name-plate	L. P. Halladay	26,361	Dec. 1	77	1420
Bicycle name-plate	E. Alexander	25,919	Aug. 11	76	954
Bicycle package-carrier frame	E. Read	25,043	Jan. 7	74	137
Bicycle-pedal foot-rest	T. Hoermann	25,619	June 9	75	1699
Bicycle-pedal tread-piece	T. V. Handloser	25,487	May 12	75	988
Bicycle-pedals. Foot-plate for	A. Sidwell	26,337	Nov. 24	77	1265
Bicycle-pedals. Tread-piece for	W. E. Warner	26,178	Oct. 13	77	306
Bicycle route-marker	A. Sidwell	25,424	Apr. 21	75	501
Bicycle-saddle	W. R. Pitt	25,673	June 23	75	2000
Bicycle-saddle	R. O. Barler	25,724	June 30	75	2184
Bicycle-saddle	W. I. Bunker	25,590	June 2	75	1540
Bicycle-saddle	W. I. Bunker	25,725	June 30	75	2184
Bicycle-saddle	A. D. Carré	25,877	Aug. 4	76	776
Bicycle-saddle	M. M. Garrison	25,620	June 9	75	1699
Bicycle-saddle	F. E. Havlin	25,485	May 12	75	988
Bicycle-saddle	W. A. and M. H. Hulbert	25,337	Mar. 31	74	1891
Bicycle-saddle	W. A. and M. H. Hulbert	25,338	Mar. 31	74	1891
Bicycle-saddle	W. A. and M. H. Hulbert	25,363	Apr. 7	75	176
Bicycle-saddle	W. A. and M. H. Hulbert	25,364	Apr. 7	75	176
Bicycle-saddle	W. A. and M. H. Hulbert	25,952	Aug. 18	76	1108
Bicycle-saddle	P. F. King	25,486	May 12	75	988
Bicycle-saddle	F. Mesinger	26,343	Nov. 24	77	1266
Bicycle-saddle	F. Mesinger	26,344	Nov. 24	77	1266
Bicycle-saddle	H. and F. Mesinger	25,423	Apr. 21	75	501
Bicycle-saddle	S. D. Van Meter	25,588	June 2	75	1540
Bicycle-saddle	B. F. Wheeler	25,589	June 2	75	1540
Bicycle-saddle frame	W. C. Smith	25,648	June 16	75	1846
Bicycle-seat	A. A. Munro	26,069	Sept. 22	76	1844
Bicycle-seat	W. W. Wilkinson and J. Dixwell	25,951	Aug. 18	76	1108
Bicycle shaft and crank	W. S. Ward	26,031	Sept. 15	76	1706
Bicycle spoke-wrench	L. B. Worden	25,954	Aug. 18	76	1108
Bicycle-stand	L. P. Bowen	25,674	June 23	75	2000
Bicycle-stand	J. Nesbitt	25,878	Aug. 4	76	776
Bicycle-support	L. W. Mulford	26,000	Sept. 8	76	1567
Bicycle toe-clip	H. A. Eibach	26,336	Nov. 24	77	1265
Bicycle toe-clip	F. K. Hesse	26,465	Dec. 29	77	2127
Bicycle toe-clip	J. H. Sager	25,801	July 21	76	465
Bicycle wall-support	W. N. Beardsley	25,282	Mar. 24	74	1722
Bicycles, &c. Fork for	J. C. Bowe	25,802	July 21	76	465
Billiard-table cushion-rails. Bolt-head mask or covering-plate for	M. Bensinger	25,646	June 16	75	1846
Bird-scarer	W. A. Taylor	26,419	Dec. 15	77	1776
Biscuit	F. L. Casselberry	25,243	Mar. 10	74	1436
Boat. Pleasure	W. H. Mullins	25,159	Feb. 11	74	801
Boiler-lug	H. B. Butler	25,846	July 28	76	604
Boiler-tube	W. H. Weightman	25,982	Sept. 1	76	1413
Boiler. Tubular steam	J. J. Hogan	25,201	Feb. 25	74	1116
Book	H. Bristow	25,981	Sept. 1	76	1413
Book-cover	A. J. Saalfeld	25,704	June 30	75	2181
Book-cover	A. J. Saalfeld	25,822	July 21	76	468
Book-covers, &c. Ornamental pattern or print for	J. Arbuckle	26,452	Dec. 29	77	2125
Book-mark	A. M. Rothert	25,703	June 30	75	2181
Book or album covers. Mounting for	W. A. Holman	26,231	Oct. 27	77	626
Book sheet. Stock	C. Q. Holst	25,401	Apr. 21	75	498
Boot	A. W. Rich	25,930	Aug. 11	76	956
Boot or shoe	L. Hill	25,188	Feb. 18	74	958
Boot or shoe heel	L. Hill	25,187	Feb. 18	74	958
Border-plate	E. A. Langenbach	26,241	Nov. 3	77	804
Border-plate	E. A. Langenbach	26,242	Nov. 3	77	804
Border-plate	E. A. Langenbach	26,243	Nov. 3	77	804
Border-plate. Metallic	E. A. Langenbach	26,413	Dec. 15	77	1775
Border-plate. Metallic	E. A. Langenbach	26,414	Dec. 15	77	1775
Border-plate. Metallic	E. A. Langenbach	26,447	Dec. 22	77	1933
Bottle	E. A. Langenbach	25,472	May 12	75	966
Bottle	C. N. Brady	25,569	June 2	75	1537
Bottle	E. T. Haase	25,569	June 2	75	1537

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Design.	Name.	No.	Date.	Official Gazette.	
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Bottle	S. J. Held	25,057	Jan. 21	74	368
Bottle	G. L. Jenkins	25,942	Aug. 18	76	1107
Bottle	G. L. Jenkins	25,943	Aug. 18	76	1107
Bottle	G. L. Jenkins	26,065	Sept. 22	76	1844
Bottle	C. A. Lindgren	25,941	Aug. 18	76	1106
Bottle	W. W. Lowrey	25,388	Apr. 14	75	340
Bottle	C. W. Meinecke	25,471	May 12	75	986
Bottle	L. W. Merriam	25,207	Mar. 3	74	1266
Bottle	E. H. Nelson	25,402	Apr. 21	75	499
Bottle	E. H. Nelson	25,403	Apr. 21	75	499
Bottle	W. H. Payne	25,707	June 30	75	2182
Bottle	F. C. Renziehausen and H. Schuetz, Jr.	25,056	Jan. 21	74	368
Bottle	C. K. Sherwood	25,048	Jan. 14	74	264
Bottle	L. H. Thomas	25,789	July 21	76	484
Bottle	H. D. Williams	26,429	Dec. 22	77	1931
Bottle	H. Wipf	25,640	June 16	75	1845
Bottle-cover	F. Thielke	25,940	Aug. 18	76	1106
Bottle-opener frame	J. T. Burt	25,608	June 9	75	1697
Bottle-stopper	G. W. Bean	26,349	Dec. 1	77	1418
Bottle-stopper	K. Hutter	25,435	Apr. 28	75	668
Bottle-stopper	W. T. Johnston	26,278	Nov. 17	77	1114
Bottle-stopper bulb.	C. T. Schondelmeier	26,064	Sept. 22	76	1844
Bottle-stopper plug	B. Boley	25,917	Aug. 11	76	954
Bowl	C. A. May	25,791	July 21	76	464
Box	C. M. Beldy	25,706	June 30	75	2182
Box	H. A. Deknatel	26,400	Dec. 15	77	1773
Box	G. B. Hurd	25,437	Apr. 28	75	668
Box	G. B. Hurd	26,025	Sept. 15	76	1705
Box	G. W. Koons	25,537	May 19	75	1195
Box	A. A. Macdonald	26,298	Nov. 17	77	1116
Box	G. Miller	26,218	Oct. 27	77	624
Box	G. Miller	26,314	Nov. 24	77	1261
Box	G. Miller	26,315	Nov. 24	77	1261
Box	I. Springer	25,962	Aug. 18	76	1109
Box	W. B. Van Buren	25,643	June 16	75	1845
Box	F. Van Camp	26,066	Sept. 22	76	1844
Box body. Match.	A. N. Clark	26,316	Nov. 24	77	1261
Box or holder for blocks, &c.	J. E. Hutchinson	26,318	Nov. 24	77	1261
Box-lid	P. O. Dickinson	25,893	Aug. 4	76	779
Box. Mail	A. Hofheimer	25,536	May 19	75	1195
Box-strip	E. Saltzkorn and L. Nicolai	25,580	June 2	75	1539
Box-trimming	N. A. Miller	26,296	Nov. 17	77	1116
Box. Wooden	F. J. Edgars	25,642	June 16	75	1845
Box. Wooden	W. C. Estes	25,535	May 19	75	1195
Boxes, &c. Lid for	P. O. Dickinson	25,240	Mar. 10	74	1435
Bracket	D. C. Bowen	25,203	Feb. 25	74	1116
Bracket	J. G. Naves	25,868	Aug. 4	76	775
Braid-cord	F. W. Klein	25,817	July 21	76	468
Brake-beam	W. F. Richards	25,443	Apr. 28	75	669
Bread	L. J. Kolb	25,934	Aug. 11	76	956
Breastpin	M. Stopper	25,825	July 21	76	469
Breast-strap protector	J. C. Covert	25,416	Apr. 21	75	500
Brick. Fire	A. B. Clunies	25,532	May 19	75	1194
Brick. Fire	A. B. Clunies	26,292	Nov. 17	77	1115
Brick. Fire	A. B. Clunies	26,403	Dec. 15	77	1773
Bridle-holder	S. Donahay	25,613	June 9	75	1698
Brooch or pin	S. Prager	25,632	June 16	75	1844
Broom-holder	E. L. Lovejoy	25,176	Feb. 18	74	956
Brush	J. M. Keefe	26,215	Oct. 27	77	624
Brush	J. K. Robinson	25,466	May 5	75	828
Brush	J. K. Robinson	25,894	Aug. 4	76	779
Brush	M. Young	25,518	May 19	75	1192
Brush	M. Young	25,895	Aug. 4	76	779
Brush-back	H. A. Weihman	26,457	Dec. 29	77	2126
Brush-back, &c. Metal	T. W. Foster	26,274	Nov. 17	77	1113
Brush-back or similar article	W. C. Codman	26,250	Nov. 10	77	966
Brush-back or similar article	H. A. Weihman	25,568	June 2	75	1537
Brush-core	H. M. Livor	25,120	Feb. 4	74	646
Brush handle. Bicycle	F. G. Neubert	25,775	July 14	76	328
Brush handle. Tooth	M. Hyman	25,170	Feb. 18	74	855
Brush holder. Paint	J. O. Elliston	25,926	Aug. 11	76	955
Brush. Scrubbing	S. K. Hawkins	26,154	Oct. 6	77	145
Brushes, &c. Back for	P. O. Dickinson	26,271	Nov. 17	77	1113
Brushes, &c. Back for	P. O. Dickinson	26,272	Nov. 17	77	1113
Brushes, &c. Back for	P. O. Dickinson	26,273	Nov. 17	77	1113
Brushes, &c. Back for	D. A. Loeser	26,146	Oct. 6	77	144
Brushes or similar articles. Back for	C. D. Graff	26,216	Oct. 27	77	624
Buckle	C. S. Comstock	25,831	July 28	76	602
Buckle	C. F. Reynolds	25,860	Aug. 4	76	774
Buckle	W. S. Wheatfield	25,794	July 21	76	464
Buckle. Belt	B. Schener	26,193	Oct. 20	77	446
Buckle. Cotton-tie	H. F. Mueller	25,563	June 2	75	1537
Buckle. Cotton-tie	H. F. Mueller	25,861	Aug. 4	76	774
Buckle-frame	C. R. Harris	25,094	Jan. 28	74	487
Buckle-frame	J. C. Covert	25,075	Jan. 21	74	371
Buckle key. Clamp	G. F. Stansbury	25,800	July 21	76	465
Buckle. Suspender	J. Forsheim	25,093	Jan. 28	74	487
Building-block	G. H. Bodine	25,044	Jan. 7	74	137
Butter-receptacle	C. I. Conover	26,153	Oct. 6	77	145
Button	F. B. S. Beardsley	26,012	Sept. 15	76	1704
Button	J. M. Claybrook	25,306	Mar. 31	74	1886
Button	C. Faus	25,205	Mar. 3	74	1266
Button	J. M. Litchfield	25,114	Feb. 4	74	615

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Design.	Name.	No.	Date.	Official Gazette.	
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Button	J. M. Litchfield	25,115	Feb. 4	74	645
Button	B. I. McElroy	26,143	Oct. 6	77	144
Button	E. G. Niklaus	23,090	Jan. 28	74	487
Button	W. W. Pierce	25,655	June 23	75	1998
Button	G. A. Schlechter	25,768	July 14	76	327
Button	A. B. Schofield	25,468	May 12	75	986
Button	A. Shuman	25,136	Feb. 11	74	798
Button. Collar	B. I. Johnston	25,697	June 30	75	2181
Button. Cuff	G. W. Parks	26,102	Sept. 29	76	1997
Button-fastening	F. S. McKenney	25,206	Mar. 3	74	1266
Button-hook	J. L. Sommer	25,602	June 9	75	1697
Button-hook handle	F. Thielke	26,456	Dec. 29	77	2126
Button-hooks or similar articles. Handle for	T. W. Foster	26,214	Oct. 27	77	623
Button or pin	J. E. Cremen	26,059	Sept. 22	76	1843
Button-rod	E. Kempshall	25,698	June 30	75	2181
Buttons. Box-plate for cuff	E. D. Guild	25,092	Jan. 28	74	487
Cabinet. Folding	E. H. Grant	25,783	July 14	76	329
Cabinet. Waiter's	M. A. Coman	25,847	July 28	76	604
Calendar stand	A. Ferber	26,026	Sept. 15	76	1705
Calendering-machine frame	D. R. Bowen	25,254	Mar. 17	74	1582
Can	C. H. James	25,665	June 23	75	1999
Can. Ash	E. Ettenheimer	26,041	Sept. 15	76	1707
Can. Oil	F. S. Chase	25,323	Mar. 31	74	1888
Can. Oil	F. S. Chase	25,946	Aug. 18	76	1107
Can. Oil	J. Clement	25,395	Apr. 14	75	341
Can-opener	S. R. Jennings	25,455	May 5	75	826
Can-opener blade	H. Reno	25,264	Mar. 24	74	1719
Can. Syrup	W. Helmer	25,856	Aug. 4	76	774
Candelabrum	S. H. Leavenworth and J. T. Homan	26,277	Nov. 17	77	1113
Cane fabric	H. M. Colleston	26,475	Dec. 29	77	2128
Cane fabric	E. Morris	25,340	Mar. 31	74	1891
Cane fabric	E. Morris	25,341	Mar. 31	74	1891
Cane fabric	E. Morris	25,677	June 23	75	2001
Cane fabric	E. Morris	25,678	June 23	75	2001
Cane fabric	E. Morris	25,679	June 23	75	2001
Cane fabric	E. G. Watkins	26,476	Dec. 29	77	2129
Cane fabric	E. G. Watkins	26,477	Dec. 29	77	2129
Cane fabric	E. G. Watkins	26,478	Dec. 29	77	2129
Cane fabric	E. G. Watkins	26,479	Dec. 29	77	2129
Cane fabric	E. G. Watkins	26,480	Dec. 29	77	2129
Cane fabric	E. G. Watkins	26,481	Dec. 29	77	2129
Cane-head	J. T. Morris	25,604	June 9	75	1697
Cane head or handle	F. S. Evans	25,851	Aug. 4	76	773
Cane or umbrella handle	A. Rosenstein	26,213	Oct. 27	77	623
Cap	R. F. Bartel	25,491	May 12	75	989
Cap	O. D. Shaw	25,235	Mar. 3	74	1272
Cap	A. Wolfgang	26,451	Dec. 29	77	2125
Cap. Campaign	M. E. D. Plumley	25,987	Sept. 8	76	1566
Car-bolster	W. Case	25,671	June 23	75	2002
Car-bolster	W. Case	25,672	June 23	75	2001
Car-seat panel	J. A. Brill	25,362	Apr. 7	75	175
Car-seat panel	J. A. Brill	26,068	Sept. 22	76	1844
Car-seat panels. Rib for	J. A. Brill	25,887	Aug. 4	76	778
Carboy-stand support	H. J. Grell	26,221	Oct. 27	77	624
Card. Easter	C. L. M. Preuss	25,381	Apr. 14	75	338
Card-holder	G. W. Hadley	25,400	Apr. 21	75	498
Card holder. Price	E. Sassenhoff	26,461	Dec. 29	77	2126
Carpet	W. F. Brown	25,292	Mar. 24	74	1723
Carpet	A. Bunel	25,161	Feb. 11	74	801
Carpet	A. Bunel	25,162	Feb. 11	74	801
Carpet	A. Bunel	25,163	Feb. 11	74	802
Carpet	A. Bunel	25,229	Mar. 3	74	1271
Carpet	A. Bunel	25,230	Mar. 3	74	1271
Carpet	A. Bunel	25,654	June 16	75	1840
Carpet	A. Bunel	25,685	June 23	75	2000
Carpet	J. B. Campbell	25,220	Mar. 3	74	1269
Carpet	J. B. Campbell	25,221	Mar. 3	74	1269
Carpet	J. B. Campbell	25,222	Mar. 3	74	1269
Carpet	J. B. Campbell	25,223	Mar. 3	74	1270
Carpet	J. B. Campbell	25,224	Mar. 3	74	1270
Carpet	J. B. Campbell	25,225	Mar. 3	74	1270
Carpet	J. B. Campbell	25,540	May 19	75	1196
Carpet	E. Crowe	25,495	May 12	75	989
Carpet	E. Crowe	25,496	May 12	75	989
Carpet	E. Crowe	25,497	May 12	75	990
Carpet	A. Danby	25,450	Apr. 28	75	670
Carpet	A. Danby	25,681	June 23	75	2007
Carpet	R. F. Doherty	25,906	Aug. 4	76	781
Carpet	C. F. Gedney	25,293	Mar. 24	74	1724
Carpet	C. F. Gedney	25,371	Apr. 7	75	177
Carpet	C. F. Gedney	25,542	May 19	75	1196
Carpet	C. F. Gedney	25,596	June 2	75	1541
Carpet	C. F. Gedney	25,597	June 2	75	1541
Carpet	C. F. Gedney	25,598	June 2	75	1542
Carpet	H. T. George	25,227	Mar. 3	74	1270
Carpet	H. de Kerguelin	25,653	June 16	75	1847
Carpet	T. L. Lawton	25,431	Apr. 21	75	503
Carpet	G. Marchetti	25,465	May 5	75	828
Carpet	A. K. May	25,294	Mar. 24	74	1724
Carpet	A. K. May	26,046	Sept. 15	76	1708
Carpet	A. K. May	26,047	Sept. 15	76	1708
Carpet	A. K. May	26,048	Sept. 15	76	1708
Carpet	A. K. May	26,049	Sept. 15	76	1708
Carpet	A. K. May	26,050	Sept. 15	76	1708

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Carpet	A. K. May	26,051	Sept. 15	76	1709
Carpet	A. K. May	26,052	Sept. 15	76	1709
Carpet	A. K. May	26,053	Sept. 15	76	1709
Carpet	A. K. May	26,054	Sept. 15	76	1709
Carpet	A. K. May	26,055	Sept. 15	76	1709
Carpet	J. B. Neil	25,295	Mar. 24	74	1724
Carpet	J. B. Neil	25,372	Apr. 7	75	177
Carpet	J. B. Neil	25,373	Apr. 7	75	177
Carpet	J. B. Neil	25,374	Apr. 7	75	177
Carpet	J. B. Neil	25,599	June 2	75	1542
Carpet	F. M. Parker	25,226	Mar. 3	74	1270
Carpet	F. M. Parker	25,248	Mar. 10	74	1436
Carpet	F. M. Parker	25,345	Mar. 31	74	1892
Carpet	F. M. Parker	25,451	Apr. 28	75	670
Carpet	F. M. Parker	25,630	June 9	75	1700
Carpet	F. M. Parker	25,680	June 23	75	2001
Carpet	F. M. Parker	25,907	Aug. 4	76	781
Carpet	F. M. Parker	25,967	Aug. 18	76	1110
Carpet	H. W. Parton	25,904	Aug. 4	76	780
Carpet	H. W. Parton	25,905	Aug. 4	76	780
Carpet	E. Poole	25,682	June 23	75	2002
Carpet	E. Poole	25,683	June 23	75	2002
Carpet	A. F. Reddie	25,296	Mar. 24	74	1724
Carpet	A. F. Reddie	25,297	Mar. 24	74	1724
Carpet	A. F. Reddie	25,298	Mar. 24	74	1725
Carpet	A. F. Reddie	25,299	Mar. 24	74	1725
Carpet	A. F. Reddie	25,300	Mar. 21	74	1725
Carpet	A. F. Reddie	25,301	Mar. 24	74	1725
Carpet	A. F. Reddie	25,432	Apr. 21	75	503
Carpet	A. F. Reddie	25,464	May 5	75	828
Carpet	J. D. Ripson	25,498	May 12	75	990
Carpet	A. M. Rose	25,046	Jan. 7	74	137
Carpet	A. M. Rose	25,231	Mar. 3	74	1271
Carpet	A. M. Rose	25,232	Mar. 3	74	1271
Carpet	A. M. Rose	25,233	Mar. 3	74	1271
Carpet	A. M. Rose	25,234	Mar. 3	74	1271
Carpet	A. M. Rose	25,257	Mar. 17	74	1583
Carpet	A. M. Rose	25,258	Mar. 17	74	1583
Carpet	A. M. Rose	25,369	Apr. 7	75	177
Carpet	A. M. Rose	25,370	Apr. 7	75	177
Carpet	A. M. Rose	25,541	May 19	75	1196
Carpet	A. M. Rose	26,056	Sept. 15	76	1709
Carpet	A. M. Rose	26,057	Sept. 15	76	1709
Carpet	E. G. Sauer	25,192	Feb. 18	74	958
Carpet	E. G. Sauer	25,249	Mar. 10	74	1436
Carpet	N. S. Stewart	25,061	Jan. 21	74	369
Carpet	N. S. Stewart	25,088	Jan. 21	74	373
Carpet	N. S. Stewart	25,089	Jan. 21	74	373
Carpet	N. S. Stewart	25,164	Feb. 11	74	802
Carpet	N. S. Stewart	25,165	Feb. 11	74	802
Carpet	N. S. Stewart	25,228	Mar. 3	74	1270
Carpet	N. S. Stewart	25,627	June 9	75	1700
Carpet	N. S. Stewart	25,628	June 9	75	1700
Carpet	N. S. Stewart	25,629	June 9	75	1700
Carpet	N. S. Stewart	25,684	June 23	75	2002
Carpet	N. S. Stewart	25,744	June 30	75	2187
Carpet	N. S. Stewart	25,745	June 30	75	2187
Carpet	N. S. Stewart	25,746	June 30	75	2187
Carpet	N. S. Stewart	25,747	June 30	75	2187
Carpet	N. S. Stewart	25,748	June 30	75	2187
Carpet	N. S. Stewart	25,749	June 30	75	2187
Carpet	N. S. Stewart	25,750	June 30	75	2187
Carpet	N. S. Stewart	25,751	June 30	75	2187
Carpet-beater	W. H. Upton	25,394	Apr. 14	75	340
Carpet-border	W. F. Brown	25,378	Apr. 14	75	338
Carpet-button. Stair	D. Walker	26,107	Sept. 29	76	1997
Carpet-button. Stair	R. H. Warren	26,353	Dec. 1	77	1419
Carpet-button. Stair	B. H. Warren and D. Walker	25,265	Mar. 24	74	1719
Carpet-button. Stair	B. H. Warren and D. Walker	25,266	Mar. 24	74	1719
Carpet-stretcher	H. M. Bridges	25,256	Mar. 17	74	1583
Carriage-body	P. F. Pia	25,592	June 2	75	1541
Carriage-body	H. C. Sears	26,347	Nov. 24	77	1266
Carriage robe. Baby	H. P. Barlow	25,134	Feb. 4	74	648
Cartridge-holder. Temporary	T. C. Johnson	26,386	Dec. 8	77	1589
Cartridge-shell	J. Gardner	25,611	June 9	75	1698
Case or box	E. J. Fletcher	25,575	June 2	75	1538
Case or box	E. J. Fletcher	25,576	June 2	75	1538
Casket	I. K. Shier	25,445	Apr. 28	75	669
Casket-handle ear	E. Cleff	25,060	Jan. 21	74	368
Casket-handle ear	E. Cleff	25,307	Mar. 31	74	1886
Casket-plate	M. Bremer	25,095	Jan. 28	74	488
Casket-plate	M. Bremer	25,096	Jan. 28	74	488
Caster-cases. Blank for	L. B. Denton	26,112	Sept. 29	76	1998
Caster-pin	H. Ill	25,521	May 19	75	1193
Caster-pin	H. Ill	25,522	May 19	75	1193
Caster-pin	H. Ill	25,567	June 2	75	1537
Ceiling-plate	E. A. Langenbach	26,238	Nov. 3	77	803
Ceiling-plate	E. A. Langenbach	26,239	Nov. 3	77	803
Ceiling-plate	E. A. Langenbach	26,240	Nov. 3	77	803
Ceiling-plate. Metallic	E. A. Langenbach	26,446	Dec. 22	77	1933
Cement-kettle	F. W. Morgan	25,765	July 7	76	156
Cereal cup	H. D. Perky	25,318	Mar. 31	74	1888
Chafing-dish	L. Wojdow	26,431	Dec. 22	77	1931
Chafing-dish stand	L. Wojdow	25,473	May 12	75	987

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Design.	Name.	No.	Date.	Official Gazette.	
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Chafing-dish stand	L. Wojdkow	26,432	Dec. 22	77	1931
Chafing-dish stand	L. Wojdkow	26,433	Dec. 22	77	1931
Chafing-dish stand	L. Wojdkow	26,434	Dec. 22	77	1931
Chafing-dish stand	L. Wojdkow	26,435	Dec. 22	77	1931
Chain-link	P. Burns	25,914	Aug. 11	76	953
Chain-link	P. Hayden	25,631	June 16	75	1844
Chain link, Driving	W. B. Teale	25,713	June 30	75	2182
Chain. Ornamental	P. J. Duerr	26,265	Nov. 17	77	1112
Chain. Watch	F. E. Sturdy	25,557	June 2	75	1536
Chain. Watch	F. W. Wood	25,501	May 19	75	1190
Chair	C. Holstein	25,184	Feb. 18	74	957
Chair	C. Holstein	25,197	Feb. 25	74	1115
Chair	H. M. Kinports	26,207	Oct. 20	77	447
Chair	T. J. Palmer	26,185	Oct. 13	77	307
Chair-base	A. W. Browne	25,523	May 19	75	1193
Chair-leg	M. A. Hanson	25,255	Mar. 17	74	1583
Chair. Piano	L. F. Griswold	25,183	Feb. 18	74	957
Chair. School	G. A. Bobrick	25,897	Aug. 4	76	779
Chair. School	J. H. Butler	25,582	June 2	75	1539
Chair. Student's	H. E. Hunter	25,074	Jan. 21	74	371
Chair. Student's	H. E. Hunter	25,157	Feb. 11	74	801
Channel-iron	Z. T. Jones	25,411	Apr. 21	75	500
Channel-iron	Z. T. Jones	25,412	Apr. 21	75	500
Channel-iron	Z. T. Jones	25,413	Apr. 21	75	500
Channel-iron	Z. T. Jones	25,414	Apr. 21	75	500
Chaplet	F. Hohlfelder	25,303	Mar. 31	74	1886
Check-bit	A. E. Mack	26,281	Nov. 17	77	1114
Cheese	W. I. Brown	26,312	Nov. 17	77	1119
Chocolate-mold	J. E. Sanders	26,008	Sept. 8	76	1569
Chopping-knife blade	W. E. Sitterly	26,282	Nov. 17	77	1114
Churn-frame	W. Sanders	25,584	June 2	75	1539
Churn-stand	W. J. Willoughby and W. Y. Anderson.	26,206	Oct. 20	77	447
Cigar and ash receiver	J. G. Hutchinson	25,121	Feb. 4	74	646
Cigar-band	L. C. Wagner	25,983	Sept. 8	76	1565
Cigar-box cover	N. Witsch	25,454	May 5	75	826
Cigar-box cover	N. Witsch	25,641	June 16	75	1845
Cigar-box pattern	E. Steffens	25,288	Mar. 24	74	1723
Cigar-box pattern	E. Steffens	25,289	Mar. 24	74	1723
Cigar-box pattern	N. Witsch	25,348	Apr. 7	75	173
Cigar-boxes. Ornamental print for	N. Witsch	25,071	Jan. 21	74	370
Cigar-boxes. Ornamental print for	N. Witsch	25,672	Jan. 21	74	370
Cigar-boxes. Ornamental print for	N. Witsch	25,290	Mar. 24	74	1723
Cigar-boxes. Ornamental print for	N. Witsch	25,302	Mar. 31	74	1886
Cigar-boxes. Print or pattern for	N. Witsch	26,188	Oct. 13	77	308
Cigar-boxes. Print or pattern for	N. Witsch	26,208	Oct. 20	77	448
Cigar-cutter frame	E. Walker	25,209	Mar. 3	74	1267
Cigar-holder	J. Isaacs	25,469	May 12	75	986
Cigar-lighter	G. F. Krieger	26,219	Oct. 27	77	624
Cigar-lighter stand	M. A. Louer, I. S. Reis, and C. Conradt.	25,766	July 7	76	156
Clamp base. Metal	G. Staib	25,051	Jan. 14	74	264
Clasp	C. Miller	25,507	May 19	75	1191
Clasp	O. A. Norland	25,826	July 21	76	469
Clasp loop. Garment	F. A. Ives	25,091	Jan. 28	74	487
Clock-frame	C. Hofmann	25,077	Jan. 21	74	371
Clock-front	W. C. Drew	25,313	Mar. 31	74	1887
Clothes-line holders. Frame for	J. Willon	25,647	June 16	75	1846
Coal-scuttle	H. Garriss	25,419	Apr. 21	75	501
Cock. Basin	J. Totham	25,950	Aug. 18	76	1108
Cock for air-brake pipes. Angle	F. A. McArthur	26,441	Dec. 22	77	1932
Coffee-pot	W. D. Hunter	26,300	Nov. 17	77	1117
Coffee-pot	L. Wojdkow	26,436	Dec. 22	77	1931
Coin-receiver case	C. C. Clawson	25,280	Mar. 24	74	1721
Collar	C. A. Ritter	25,539	May 19	75	1195
Collar	H. Rosenthal	26,313	Nov. 24	77	1261
Collar fastener. Horse	H. W. Cooper	25,488	May 12	75	988
Collar. Horse	B. Allen	26,362	Dec. 1	77	1420
Collar. Lady's	D. Kisch	26,374	Dec. 1	77	1422
Comb, &c	M. C. Lefferts	25,119	Feb. 4	74	646
Comb-backs. Border for	P. O. Dickinson	26,270	Nov. 17	77	1113
Communion-service tray	J. W. Sykes	26,061	Sept. 22	76	1843
Cork-extractor frame	M. Redlinger	25,607	June 9	75	1697
Corkscrew-collar	E. Walker	25,776	July 14	76	328
Corn-holder	A. W. Ziegler	25,793	July 21	76	464
Corset	A. J. Claveloux	26,044	Sept. 15	76	1708
Corset	J. Stone	25,931	Aug. 11	76	956
Corset	D. H. Warner	26,373	Dec. 1	77	1422
Corset-case	J. J. Shepard	26,294	Nov. 17	77	1116
Couch frame. Box	J. Healy	25,040	Jan. 7	74	137
Counter. Display	S. J. Sherer	25,328	Mar. 31	74	1889
Counter. Sales	J. A. Flesch	25,181	Feb. 18	74	957
Counter. Sales	J. A. Flesch	25,182	Feb. 18	74	957
Cradle	C. T. Robinson	25,675	June 23	75	2000
Cuff-holder	L. P. Kleiderer	25,172	Feb. 18	74	955
Culinary utensil	A. Leonard	25,726	June 30	75	2184
Curling-iron heater	M. N. Diall	26,328	Nov. 24	77	1263
Curling-iron holder	W. A. Dobson	25,316	Mar. 31	74	1888
Currycomb and card	O. B. Read	26,334	Nov. 24	77	1264
Curtain. Lace	H. Horsefield	25,344	Mar. 31	74	1892
Curtain. Lace	H. Horsefield	25,376	Apr. 14	75	332
Curtain-pole bracket	C. W. Smith	25,271	Mar. 24	74	1720
Curtain-pole bracket	C. W. Smith	25,272	Mar. 24	74	1720
Curtain-pole bracket	C. W. Smith	25,273	Mar. 24	74	1720

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Curtain-ring, &c.	M. P. Bowen.	25,797	July 21	76	465
Cuspidor. Vase.	W. Westlake.	25,547	May 26	75	1354
Cycle frame. Foot.	R. and G. Anderson.	25,998	Sept. 8	76	1567
Cycle-hanger.	G. Lane.	26,033	Sept. 15	76	1706
Cyclometer-casing.	E. Hart.	25,773	July 14	76	328
Delivery-spout.	S. E. Hotchkiss.	25,415	Apr. 21	75	500
Desk and seat.	J. C. Gooding.	25,735	June 30	75	2185
Desk-cabinet.	F. S. Thomas.	25,733	June 30	75	2185
Diaper.	W. Green.	25,343	Mar. 31	74	1892
Dice.	F. J. Patten.	25,701	June 30	75	2181
Dish.	C. E. Haviland.	25,513	May 19	75	1191
Dish.	A. A. Southwick.	26,397	Dec. 15	77	1772
Dish. Covered.	E. Gérard.	26,299	Nov. 17	77	1116
Dish. Covered.	W. H. Grindley.	26,460	Dec. 29	77	2126
Dish. Covered.	C. E. Haviland.	25,514	May 19	75	1192
Dish. Covered.	R. L. Johnson.	25,335	Apr. 14	75	339
Dish. Covered.	H. J. M. P. La Bastide.	25,639	June 16	75	1844
Dish. Covered.	G. C. C. Vogt.	26,430	Dec. 22	77	1931
Display box.	C. Spilka.	26,119	Sept. 29	76	1990
Display-jar.	E. E. Latta.	26,321	Nov. 24	77	1262
Display-stand.	E. Greene.	25,196	Feb. 25	74	1115
Display-stand.	M. A. King and C. E. Mullin.	25,923	Aug. 11	76	955
Display-stand.	W. M. Mitchell.	26,322	Nov. 24	77	1262
Display-tray.	L. Wolfsheim.	26,387	Dec. 8	77	1589
Draft-lug and draw-bar follower.	E. S. Marshall.	26,470	Dec. 29	77	2127
Draft-lug and draw-bar follower.	A. G. Steinbrenner.	25,957	Aug. 18	76	1108
Drafting-instrument.	F. O. Tappan and L. A. Eggleston.	25,489	May 12	75	928
Drilling-machine frame.	F. Milliken.	26,287	Nov. 17	77	1115
Drilling-machine frame.	F. Milliken.	26,288	Nov. 17	77	1115
Drinking vessel.	F. P. Derr.	26,023	Sept. 15	76	1705
Drum.	R. B. Cooley.	26,082	Sept. 22	76	1846
Drum. Heating.	A. M. Olsen.	25,200	Feb. 25	74	1116
Dust-cap.	C. E. Roberts.	25,228	July 21	76	469
Dust-pan.	N. A. Rose and A. Pratt.	25,666	June 23	75	1999
Dust-pan.	J. W. Valiant.	25,079	Jan. 21	74	372
Dynamo-case.	C. E. Woods.	25,329	Mar. 31	74	1889
Dynamo-casing.	M. Moskowitz.	25,529	May 19	75	1194
Dynamo-machine frame.	F. Bain.	25,365	Apr. 7	75	176
Dynamo-machine frame.	F. Bain.	25,366	Apr. 7	75	176
Easel.	E. L. Freese.	25,723	June 30	75	2184
Easel-stand.	W. Bergner.	25,758	July 7	76	155
Eaves-trough hanger.	J. F. Pierce.	26,175	Oct. 13	77	306
Egg-beater.	G. H. Steele.	26,438	Dec. 22	77	1932
Egg-tester. Duplex.	P. M. Earle.	26,329	Nov. 24	77	1264
Electric-light fixture.	S. H. Davis.	26,034	Sept. 15	76	1706
Electrical-instrument case.	R. Shand.	25,549	May 26	75	1354
Electrical muffle-casing.	L. E. Custer.	25,843	July 28	76	603
Elevator-guide.	G. R. Rebmann.	26,289	Nov. 17	77	1115
Engine cylinder. Steam.	C. O. Heggem.	25,526	May 19	75	1193
Engine frame. Steam.	H. M. Lane.	26,180	Oct. 13	77	307
Engine-wheel.	M. Geary.	25,367	Apr. 7	75	176
Envelop.	W. L. Brobst.	26,378	Dec. 8	77	1587
Eraser.	O. C. and C. W. Hackett.	25,137	Feb. 11	74	798
Erasing-plate.	V. Copland.	26,251	Nov. 10	77	966
Ewer.	C. A. May.	25,790	July 21	76	464
Exercising-club.	A. M. Heydrick.	26,418	Dec. 15	77	1776
Eyo.	A. M. Weber.	25,991	Sept. 8	76	1566
Eyeglass-case.	J. S. Spencer.	26,394	Dec. 15	77	1772
Eyeglass-hook.	S. J. Chulce.	25,603	June 9	75	1697
Eyeglass or spectacle case.	J. Casey and M. S. Chism.	25,638	June 16	75	1244
Eyelet.	A. C. Estabrook.	25,796	July 21	76	465
Eyelet.	E. Kempshall.	25,27	July 21	76	460
Eyelet.	E. Kempshall.	25,832	July 28	76	602
Eyelet.	E. Kempshall.	25,833	July 28	76	602
Eyelet.	E. Kempshall.	25,834	July 28	76	602
Eyelet.	E. Kempshall.	25,835	July 28	76	602
Eyelet.	E. Kempshall.	25,862	Aug. 4	76	775
Fabric.	S. Yokozuka.	26,085	Sept. 22	76	1847
Fan.	L. Barkley.	25,382	Apr. 14	75	338
Fastener.	F. S. McKenney.	25,138	Feb. 11	74	798
Fastening-tab.	M. H. Mergenthaler.	25,436	Apr. 28	75	668
Faucet-body.	J. Horton.	25,977	Aug. 25	76	1268
Feed-cutter knife.	D. B. Smith.	25,777	July 14	76	328
Felly or wheel-rim.	J. L. Dann.	26,345	Nov. 24	77	1266
Fence-fastener.	J. Harris.	25,614	June 9	75	1698
Fence-fastener.	J. Harris.	25,615	June 9	75	1698
Fence-panel.	W. Warner.	25,805	July 21	76	466
Fence-panel. Woven-wire.	W. H. Warner.	26,290	Nov. 17	77	1115
Fence-pattern. Wire.	A. L. and D. M. Kitzelman.	25,332	Mar. 31	74	1890
Fence-pattern. Wire.	A. L. and D. M. Kitzelman.	25,333	Mar. 31	74	1890
Fence-post.	S. B. Husselman.	25,283	Mar. 24	74	1722
Fence-post.	W. H. Thomas.	26,363	Dec. 1	77	1420
Fence-rail support.	G. Stark.	25,397	Apr. 14	75	341
Fence stay. Wire.	Q. I. Simpson.	25,855	Aug. 4	76	777
Fence-strand.	D. C. Benjamin.	26,410	Dec. 15	77	1775
Fence-wire ratchet-frame.	O. P. Schriver.	26,222	Oct. 27	77	624
Fencing-pattern.	W. Edenborn.	25,380	Apr. 14	75	338
Fender.	A. F. Bell.	25,806	July 21	76	466
Ferrule.	H. O. Schmidt.	25,267	Mar. 24	74	1719
Ferrule.	H. O. Schmidt.	25,268	Mar. 24	74	1720
Fez.	A. T. Beck.	25,375	Apr. 14	75	337
Fifth-wheel.	H. C. Swan.	25,750	July 7	76	156
File-handle.	W. T. Nicholson.	25,410	Apr. 21	75	500
Files, &c. Handle for nail.	H. A. Weihman.	26,060	Sept. 22	76	1843

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Design.	Name.	No.	Date.	Official Gazette.	
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Filter case. Liquid.	J. Ellis.	26,029	Sept. 15	76	1706
Finger-ring.	F. J. Lingg.	25,689	June 30	75	2180
Finger-ring.	F. J. Lingg.	25,910	Aug. 11	76	953
Fire-escapes. Friction-loop for.	G. H. Howland and T. F. Olmsted.	26,071	Sept. 22	76	1845
Fire-extinguishers. Distributer for.	W. Esty.	26,254	Nov. 10	77	966
Fire-extinguishers. Yoke for automatic.	W. Esty.	26,255	Nov. 10	77	966
Fire-hose nozzle.	W. Kelly and O. G. Olson.	26,358	Dec. 1	77	1420
Fireplace-front.	C. Braun.	25,360	Apr. 7	75	175
Fireplace-front.	M. I. Cohen.	26,367	Dec. 1	77	1421
Fireplace-front.	E. Fairbairn and W. Brah.	25,107	Jan. 28	74	490
Fireplace-front.	W. E. Fitch.	25,420	Apr. 21	75	501
Fire-pot lining.	A. B. Clunies.	25,888	Aug. 4	76	778
Fire-pot lining.	A. B. Clunies.	25,889	Aug. 4	76	778
Fire-pot lining.	A. B. Clunies.	25,890	Aug. 4	76	778
Floor-mat.	T. S. Diblin.	25,247	Mar. 10	74	1436
Flour-sack.	L. C. Schroeder.	25,961	Aug. 18	76	1109
Flower-pot holder.	M. Clarke.	26,067	Sept. 22	76	1844
Flower-pot holder.	W. L. Douglass.	26,106	Sept. 29	76	1997
Flush-tank.	B. M. Carney.	26,409	Dec. 15	77	1774
Fly-paper.	J. W. Beattie.	25,960	Aug. 18	76	1109
Foot-rest.	G. W. Yearicks.	25,848	July 28	76	604
Foot-warmer.	M. Ernst.	26,007	Sept. 8	76	1269
Forging-machine frame.	G. Saxon.	26,440	Dec. 22	77	1932
Fork. Eating.	L. P. Dazun.	25,384	Apr. 14	75	339
Furnace-casing ring.	A. W. Walker.	26,291	Nov. 17	77	1115
Gage.	O. Smith.	25,719	June 30	75	2183
Gage. Marking.	D. P. Osborn.	25,357	Apr. 7	75	175
Game-board.	F. J. Candee.	26,042	Sept. 15	76	1707
Game-board.	H. Cochrane.	25,053	Jan. 14	74	264
Game-board.	V. K. Coffill.	25,186	Feb. 18	74	958
Game-board.	M. Columbo.	25,534	May 19	75	1195
Game-board.	J. J. Donahue and J. H. Sullivan.	25,349	Apr. 7	75	174
Game-board.	J. A. Garland, Jr.	25,449	Apr. 28	75	670
Game-board.	E. L. Hall.	25,952	Mar. 17	74	1582
Game-board.	R. E. Hill.	26,167	Oct. 6	77	147
Game-board.	C. L. Jones.	25,816	July 21	76	468
Game-board.	W. Kampfer.	26,391	Dec. 8	77	1589
Game-board.	T. L. Kelly.	26,120	Sept. 29	76	1999
Game-board.	C. J. Myers.	26,166	Oct. 6	77	147
Game-board.	R. C. Norman.	26,390	Dec. 8	77	1589
Game-board.	P. Rafalovitz.	25,624	June 9	75	1699
Game-board.	W. H. Redheffer, Jr.	25,900	Aug. 4	76	780
Game-board.	I. Schulz.	25,311	Mar. 31	74	1887
Game-board.	J. M. Schwartz.	26,186	Oct. 13	77	308
Game-board.	E. P. Slocumb.	25,312	Mar. 31	74	1887
Game-board.	J. H. Somerville.	25,651	June 16	75	1847
Game-board.	E. J. Thomas, Jr.	25,965	Aug. 18	76	1110
Game-board.	J. B. H. Trainer.	26,168	Oct. 6	77	147
Garment-edging.	H. Haase.	26,189	Oct. 13	77	308
Garment-hanger.	Z. Duchemain.	25,715	June 30	75	2183
Garment-support.	W. H. Kellogg.	26,021	Sept. 15	76	1705
Garment-supporter.	E. B. Bunnell.	25,795	July 21	76	464
Gas-burner.	J. Lienes.	26,036	Sept. 15	76	1707
Gas-burner.	W. G. Taylor.	26,149	Oct. 6	77	145
Gas-burner.	F. T. Williams.	25,418	Apr. 21	75	500
Gas-engine frame.	W. L. Crouch.	26,072	Sept. 22	76	1845
Gas-fixture.	G. W. Davis.	25,212	Mar. 3	74	1267
Gas-light gallery.	W. E. Barrows.	25,807	July 21	76	466
Gas-light shade. Incandescent.	E. Kaye.	26,003	Sept. 8	76	1568
Gas-lights. Gallery for incandescent.	W. E. Barrows.	25,780	July 14	76	328
Gas-lights. Gallery for incandescent.	W. E. Barrows.	25,844	July 28	76	603
Gas-lights. Gallery for incandescent.	W. E. Barrows.	25,845	July 28	76	603
Gas or electric light fixture.	H. E. Watkins.	25,808	July 21	76	466
Gas or vapor burner.	C. F. Allen.	26,035	Sept. 15	76	1707
Glass dish.	W. C. Anderson.	25,512	May 19	75	1191
Glass dish.	W. C. Anderson.	25,570	June 2	75	1537
Glass dish.	J. B. Hill.	26,396	Dec. 15	77	1772
Glass pattern. Sheet.	W. Butler and L. H. Zeigler.	26,311	Nov. 17	77	1119
Glass vessel.	B. Bennett.	25,194	Feb. 25	74	1115
Glass vessel.	B. Davies.	26,190	Oct. 13	77	308
Glass vessel.	T. G. Hawkes.	25,944	Aug. 18	76	1107
Glass vessel.	J. W. Hunter.	26,062	Sept. 22	76	1843
Glass vessel or dish.	T. G. Hawkes.	25,326	Apr. 14	75	339
Glove.	P. Chatelain.	25,049	Jan. 14	74	265
Glove.	P. Chatelain.	25,050	Jan. 14	74	264
Glove-fasteners. Ball member for.	F. F. Raymond, 2d.	25,117	Feb. 4	74	646
Glove-holder.	W. E. Peabody.	25,538	May 19	75	1195
Glove-pattern.	W. N. Marsden and T. E. Floyd.	25,980	Sept. 1	76	1413
Gong-striker cap.	J. Mundell.	25,881	Aug. 4	76	777
Grate-bar.	G. M. Conway.	25,533	May 19	75	1194
Grave-marker.	I. C. Moore and C. F. Trott.	26,182	Oct. 13	77	307
Grave-vault.	G. D. Hartzell.	25,446	Apr. 28	75	669
Grip-bracket.	J. P. Fegan.	25,670	June 23	75	1999
Grip for skirts, &c.	E. L. Cole.	25,993	Sept. 8	76	1566
Grip-lever.	J. P. Fegan.	25,668	June 23	75	1999
Grip-lever.	J. P. Fegan.	25,669	June 23	75	1999
Guitar.	C. Knutsen.	26,043	Sept. 15	76	1708
Guitar body.	G. Behm.	26,398	Dec. 15	77	1773
Guy-slip.	H. B. Thompson.	25,867	Aug. 4	76	775
Hair ornament.	A. P. Suter.	26,172	Oct. 13	77	305
Hair-pin.	W. Hawthorn and T. F. Watson.	25,407	Apr. 21	75	499
Hame.	T. J. Mowry and C. B. Rosenburgh.	25,214	Mar. 3	74	1267
Hame-staple.	C. B. Rosenburgh.	25,968	Aug. 18	76	1110
Hammock.	W. H. Miller.	25,736	June 30	75	2186

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Hammock	W. H. Miller	25,737	June 30	75	2186
Hammock	W. H. Miller	25,738	June 30	75	2186
Hammock	I. E. Palmer	25,110	Jan. 28	74	490
Hammock	I. E. Palmer	25,111	Jan. 28	74	490
Hammock	I. E. Palmer	25,112	Jan. 28	74	490
Hammock	I. E. Palmer	25,377	Apr. 14	75	338
Hammock	I. E. Palmer	25,625	June 9	75	1700
Hammock	I. E. Palmer	25,966	Aug. 18	76	1110
Hammock	I. E. Palmer	26,011	Sept. 8	76	1570
Hammock-support.	I. E. Palmer	26,258	Nov. 10	77	967
Hamper. Clothes.	A. Probola	25,158	Feb. 11	74	801
Hand-drill	T. Larkin	25,955	Aug. 18	76	1108
Handkerchief, &c.	G. R. Bowen	25,753	July 7	76	154
Handkerchief, &c.	G. R. Bowen	25,754	July 7	76	155
Handkerchief, &c.	F. E. Heath	25,595	June 2	75	1541
Handkerchief or similar fabric	J. G. Clark and S. F. Price	26,169	Oct. 6	77	147
Handle	A. R. Pritchard	25,409	Apr. 21	75	499
Handle	L. Terry	25,171	Feb. 18	74	955
Handle-bar	L. G. Billings	26,339	Nov. 24	77	1265
Handle-bar	R. W. Murphy	26,340	Nov. 24	77	1265
Handle-bar head.	J. E. Lee	26,466	Dec. 29	77	2127
Handle cap. Cutlery.	H. O. Schmidt	25,269	Mar. 24	74	1720
Handle cap. Cutlery.	H. O. Schmidt	25,270	Mar. 24	74	1720
Handle for brushes, &c.	G. de Festicas	25,251	Mar. 17	74	1582
Handle for button-hooks, &c.	T. W. Foster	25,262	Mar. 24	74	1719
Handle for button-hooks, &c.	F. Thielke	25,363	Apr. 14	75	339
Handle for feather dusters	I. B. Cohen	26,199	Oct. 20	77	446
Handle for forks, &c.	W. A. Jameson	25,408	Apr. 21	75	499
Handle for pans, &c.	F. L. Jack	26,401	Dec. 15	77	1773
Harness-eye	G. A. and F. O. Gregerson	25,710	June 30	75	2182
Harrow-frame	G. H. Tochtrop	25,427	Apr. 21	75	502
Hassock	W. B. Shaw	25,823	July 21	76	468
Hat-band	F. M. Johnson	26,209	Oct. 20	77	448
Hat. Campaign.	J. W. Williams	25,686	June 30	75	2180
Hat-rim covering	F. Barnett	25,428	Apr. 21	75	502
Hatchet	E. Rogers	25,358	Apr. 7	75	175
Head or foot board	Z. T. Jones	25,185	Feb. 16	74	957
Hearse-body	W. H. Egbert	25,180	Feb. 18	74	956
Heating apparatus. Casing for.	R. M. Dixon	26,181	Oct. 13	77	307
Heel. Metal.	C. L. Smith	25,995	Sept. 8	76	1566
Heel-protector.	H. C. Noble	26,108	Sept. 29	76	1997
Helmet. Campaign.	M. T. Smith	25,850	Aug. 4	76	773
Hinge	F. Kaemmer	25,356	Apr. 7	75	175
Hinge	B. E. Kipp	25,663	June 23	75	1999
Hinge	A. Wanner, Jr.	25,508	May 19	75	1191
Hinge. Separable	W. Romminder and E. J. Fellman	26,224	Oct. 27	77	625
Hinge. Strap.	T. L. Chisholm	26,381	Dec. 8	77	1588
Hitching-post	J. B. Marshall and L. Y. McClure	25,069	Jan. 21	74	370
Hod tongue. Mortar.	J. Green	25,277	Mar. 24	74	1721
Hoe	D. Hepsher	25,918	Aug. 11	76	954
Hoe. Weed.	S. and J. Craig	26,183	Oct. 13	77	307
Hog-rack	W. A. Michels	26,001	Sept. 8	76	1567
Hoisting-machinery cross-head	F. A. Bates	25,778	July 14	76	328
Hoisting-machines. Cylinder-head for	F. A. Bates	26,073	Sept. 22	76	1845
Hood	M. Dubinsky, M. J. Nathan, and M. E. Eisenberg	25,849	July 28	76	604
Hoof-hook	J. Pinkerman	25,866	Aug. 4	76	775
Hook	A. M. Weber	25,990	Sept. 8	76	1566
Hook-and-eye mount	O. A. De Long	25,992	Sept. 8	76	1566
Hook. Display.	T. H. McDonald and E. S. Bachrach	25,865	Aug. 4	76	775
Hook for garment-fasteners	H. Kerngood	25,912	Aug. 11	76	953
Hook for garment-fasteners	F. C. Raymond	25,699	June 30	75	2181
Hook. Garment.	E. T. and F. A. Smith	26,259	Nov. 10	77	967
Hook. Hat.	J. R. Hirsh	25,506	May 19	75	1191
Hook. Lacing.	E. Kempshall	25,836	July 28	76	602
Hook. Lacing.	E. Kempshall	25,837	July 28	76	602
Hook. Lacing.	E. Kempshall	25,863	Aug. 4	76	775
Hook. Lacing.	E. Kempshall	25,864	Aug. 4	76	775
Hook. Lacing.	E. Kempshall	25,939	Aug. 18	76	1106
Hoop-lug	H. B. Severance	26,202	Oct. 20	77	447
Horse bed or mattress.	W. H. Burt	25,626	June 9	75	1700
Horse-shoe-calk	J. R. Williams	26,156	Oct. 6	77	146
Hose-reel frame	T. N. Smith	26,359	Dec. 1	77	1420
Hot-water heater or boiler.	J. A. Fish	25,213	Mar. 3	74	1267
Incandescent-light gallery	W. E. Barrows	26,148	Oct. 6	77	145
Incandescent-light socket	J. Pass and A. P. Seymour	26,002	Sept. 8	76	1568
Index and card holder	F. A. Allen	25,317	Mar. 31	74	1888
Indicator-casing	H. G. Hess	26,426	Dec. 22	77	1930
Inhaler	C. W. McKee	25,858	Aug. 4	76	774
Inscription-plate	E. K. Jones	25,062	Jan. 21	74	369
Insole	C. Eckert	26,306	Nov. 17	77	1118
Insulator	F. M. Locke	26,323	Nov. 24	77	1262
Insulator-bracket	L. S. Beardsley	25,177	Feb. 18	74	956
Insulator-bracket	L. S. Beardsley	25,178	Feb. 18	74	956
Insulator-bracket	C. M. Valazquez	25,830	July 21	76	469
Ironing-tool	O. A. Miller	26,040	Sept. 15	76	1707
Jar	A. Gaskill	25,617	June 9	75	1698
Jar. Earthen.	F. W. Butler and W. E. Dempsey	25,405	Apr. 21	75	499
Jar. Fruit.	A. G. Smalley	25,354	Apr. 7	75	174
Jar. Fruit.	A. G. Smalley	25,355	Apr. 7	75	174
Jar. Packing.	J. P. Sherwood and S. H. Hunter	25,166	Feb. 11	74	802
Jet for lime-lights	C. Beseler	25,253	Mar. 17	74	1582
Jewelry-tray	F. H. Sadler	26,459	Dec. 29	77	2126
Journal-box lid.	E. S. Marshall	26,469	Dec. 29	77	2127

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Jug	A. S. Higgins	25,387	Apr. 14	75	339
Kaleidoscope-box	R. H. Williams	25,391	Apr. 14	75	340
Kettle	L. Wojdkow	25,478	May 12	75	987
Kettle	L. Wojdkow	25,479	May 12	75	987
Kettle	L. Wojdkow	25,480	May 12	75	987
Kettle	L. Wojdkow	25,481	May 12	75	987
Kettle-stand	L. Wojdkow	25,474	May 12	75	987
Kettle-stand	L. Wojdkow	25,475	May 12	75	987
Kettle-stand	L. Wojdkow	25,476	May 12	75	987
Kettle-stand	L. Wojdkow	25,477	May 12	75	987
Kettle. Water.	A. R. Pritchard	25,324	Mar. 31	74	1899
Key	W. H. Taylor	25,309	Mar. 31	74	1886
Kitchen-cabinet	J. W. Burnett	26,184	Oct. 13	77	307
Kitchen-cabinet	C. Hooper	25,326	Mar. 31	74	1889
Kitchen-cabinet	O. Ostrander and H. H. Fairchild	25,080	Jan. 21	74	372
Kitchen-cabinet	W. B. Pigg	26,416	Dec. 15	77	1775
Kitchen-cabinet	S. B. Webb	26,371	Dec. 1	77	1422
Kneader. Bread.	L. J. Strang	25,167	Feb. 11	74	802
Knife	M. G. Collins	25,047	Jan. 14	74	264
Knife-handle, &c.	C. F. Smith	25,560	June 2	75	1536
Knife-handle	C. F. Smith	25,561	June 2	75	1536
Knife-handle, &c.	C. F. Smith	25,562	June 2	75	1536
Knife or fork handle	H. C. Hart	26,017	Sept. 15	76	1704
Knife or scraper	W. P. McConnel	26,019	Sept. 15	76	1704
Knife-scourer	L. S. Weber	25,063	Jan. 21	74	369
Knife. Table	C. Snow	25,320	Mar. 31	74	1888
Knives, forks, &c. Handle for	H. L. Wallace	26,018	Sept. 15	76	1704
Knives, &c. Handle for	P. O. Dickinson	25,636	June 16	75	1844
Knit-fabric pattern	W. H. Pepper and A. T. L. Davis	25,492	May 12	75	989
Knit fabric pattern	W. H. Pepper and A. T. L. Davis	25,493	May 12	75	989
Lace curtain	A. W. Wilde	26,372	Dec. 1	77	1422
Lace-pattern	T. A. Oliver	25,379	Apr. 14	75	338
Lamp	G. R. Steinhäuser	25,945	Aug. 18	76	1107
Lamp. Arc	C. E. Harthan	26,471	Dec. 29	77	2128
Lamp-base	L. Hornberger	25,141	Feb. 11	74	799
Lamp-base	L. Hornberger	25,142	Feb. 11	74	799
Lamp-base	L. Hornberger	25,143	Feb. 11	74	799
Lamp-base	L. Hornberger	25,144	Feb. 11	74	799
Lamp-base	L. Hornberger	25,145	Feb. 11	74	799
Lamp-base	A. Patitz	25,871	Aug. 4	76	775
Lamp-base	A. Patitz	25,872	Aug. 4	76	776
Lamp-base	A. Patitz	25,873	Aug. 4	76	776
Lamp-base	A. Patitz	25,874	Aug. 4	76	776
Lamp. Bicycle	M. F. Carey, I. Altman, and W. Hendrickson	25,876	Aug. 4	76	776
Lamp. Bicycle	A. J. Eno	25,422	Apr. 21	75	501
Lamp. Bicycle	J. F. Place and E. D. Terry	25,440	Apr. 28	75	669
Lamp body. Bicycle	G. Havell	26,177	Oct. 13	77	306
Lamp body. Electric-arc	T. E. Adams	25,069	Jan. 28	74	488
Lamp bulb. Incandescent	E. W. Gillmer	25,572	June 2	75	1538
Lamp-chimney	A. J. Alcock	25,870	Aug. 4	76	775
Lamp-chimney	G. W. Blair	26,004	Sept. 8	76	1568
Lamp-chimney	G. W. Blair	26,005	Sept. 8	76	1568
Lamp-chimney	G. W. Blair	26,147	Oct. 6	77	144
Lamp-chimney	G. W. Blair	26,350	Dec. 1	77	1419
Lamp-chimney	G. W. Blair	26,351	Dec. 1	77	1419
Lamp-chimney	R. Marsh	25,511	May 19	75	1191
Lamp-fount holder	A. Patitz	25,875	Aug. 4	76	776
Lamp globe. Arc	C. L. Danforth	25,616	June 9	75	1698
Lamp-holder	F. Rhind, S. G. Stoddard, and G. W. Baldwin	25,353	Apr. 7	75	174
Lamp-shade	G. W. Ballou	25,661	June 23	75	1998
Lamp-shade holder	W. E. Ball	26,022	Sept. 15	76	1705
Lamp. Street	A. E. Shaw	25,976	Aug. 25	76	1268
Lamp-vase	L. Hornberger	25,123	Feb. 4	74	646
Lamp-vase	L. Hornberger	25,124	Feb. 4	74	646
Lamp-vase	L. Hornberger	25,125	Feb. 4	74	646
Lantern-body	J. H. Lehman	25,064	Jan. 21	74	339
Lantern-frame	F. K. Wright	25,574	June 2	75	1538
Last	W. B. Chaplin	26,161	Oct. 6	77	146
Last	T. J. Solon	25,892	Aug. 4	76	778
Lath. Metallic	J. Schratwieser	25,525	May 19	75	1193
Laundry-iron	W. A. E. Henrici	25,105	Jan. 28	74	489
Laundry-iron	W. A. E. Henrici	25,519	May 19	75	1193
Lawn-rake	L. Gibbs	25,956	Aug. 18	76	1108
Lawn-sprinkler body	H. F. Neumeyer and J. F. Young	26,205	Oct. 20	77	447
Lens frame. Test	M. J. Hinden	25,949	Aug. 18	76	1108
Letter. Sign	P. Stevens	25,156	Feb. 11	74	801
Level frame or block	J. A. Traut	25,130	Feb. 4	74	647
Lifting-jack stand	F. I. Joyce	25,361	Apr. 7	75	175
Link. Open	W. Harden	26,380	Dec. 8	77	1588
Lock-case	W. F. Troast	26,158	Oct. 6	77	146
Lock or latch case	H. R. Towne	25,150	Feb. 11	74	800
Lock or latch case	H. R. Towne	25,151	Feb. 11	74	800
Lock or latch case	H. R. Towne	25,152	Feb. 11	74	800
Low-water-alarm column	A. W. Wain	25,650	June 16	75	1846
Lubricating-box for friction-drums	J. V. Beekman	25,202	Feb. 25	74	1116
Mail-packer	H. E. Waite	26,293	Nov. 17	77	1116
Mail-packing-machine guide	H. E. Waite	26,439	Dec. 22	77	1932
Mandolin	E. N. Livermore	26,424	Dec. 22	77	1930
Mantel and ball-rack	J. Hampson, Jr.	25,322	Mar. 31	74	1888
Mantel ornament	R. P. Creed	25,571	June 2	75	1538
Mantle-support	G. S. Barrows	26,075	Sept. 22	76	1845
Mat	E. Saltzkorn and L. Nicolai	25,652	June 16	75	1847

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Mat	H. Stubner	25,787	July 14	76	329
Match	J. T. Commossa	25,612	June 9	75	1698
Match-box	A. N. Clark	26,252	Nov. 10	77	966
Match-safe	G. H. Allen	26,295	Nov. 17	77	1116
Match-safe	B. W. Ball and M. T. Walter	25,814	July 21	76	467
Match-splint	R. F. Cooke	25,175	Feb. 18	74	956
Mattress-frame corner-block	W. H. Taber	26,070	Sept. 22	76	1845
Mattress-frame corner-block	W. H. Taber	26,244	Nov. 3	77	804
Mattress-frame corner-block	W. H. Taber	26,245	Nov. 3	77	804
Measure, Tape	E. F. Schiess	25,973	Aug. 25	76	1268
Meat-tenderer	M. E. Bonte	25,841	July 28	76	603
Metal box	H. Macarthy	25,097	Jan. 28	74	488
Metal bracket	T. Rae	25,586	June 2	75	1540
Mirror-back	W. C. Codman	26,458	Dec. 29	77	2126
Mirror-back, &c. Metal	T. W. Foster	26,275	Nov. 17	77	1113
Mirror-case	A. J. Rollert	25,928	Aug. 11	76	955
Mirror-frame	A. Wanner, Jr.	25,279	Mar. 24	74	1721
Mirror-frame	A. Wanner, Jr.	25,314	Mar. 31	74	1887
Mirror-frame	A. Wanner, Jr.	25,517	May 19	75	1192
Mirrors, &c. Back and handle for	P. O. Dickinson	26,422	Dec. 22	77	1929
Mirrors, &c. Frame for	W. F. Malloy	25,039	Jan. 7	74	137
Mirrors, &c. Frame for	R. J. Sickels	25,076	Jan. 21	74	371
Mold for bakers, &c.	H. F. W. Hueg	25,792	July 21	76	464
Molding-plate	E. A. Langenbach	26,236	Nov. 3	77	803
Molding-plate	E. A. Langenbach	26,237	Nov. 3	77	803
Mower frame, Lawn	F. T. Maynard	26,286	Nov. 17	77	1114
Muff	J. B. McMahon	25,189	Feb. 18	74	958
Mug	C. H. Hansen	25,788	July 21	76	463
Nail	J. B. Flint and A. J. Howard	25,211	Mar. 3	74	1267
Nail-cleaner	W. Goessling	25,702	June 30	75	2181
Nail or slug	H. W. Goddard	25,799	July 21	76	465
Nail or slug	C. H. Willson	25,081	Jan. 21	74	372
Nail or slug	C. H. Willson	25,082	Jan. 21	74	372
Nail or slug	C. H. Willson	25,083	Jan. 21	74	372
Nail or slug	C. H. Willson	25,084	Jan. 21	74	372
Nail or slug	C. H. Willson	25,085	Jan. 21	74	372
Nail or slug	C. H. Willson	25,086	Jan. 21	74	372
Nail or slug	C. H. Willson	25,087	Jan. 21	74	372
Nail-set	C. W. Field	26,463	Dec. 29	77	2126
Nail-set	H. Neff	25,308	Mar. 31	74	1886
Name-holder	G. W. Coverston	25,989	Sept. 8	76	1566
Name-plate	F. B. Jones	25,173	Feb. 18	74	955
Napkin-ring	J. Hasselbring	25,637	June 16	75	1844
Necktie	F. Allen	25,658	June 23	75	1998
Necktie-band holder	C. W. Walton	25,659	June 23	75	1998
Necktie-holder	P. Hennessey	25,771	July 14	76	327
Nipple, Nursing	S. R. King	25,708	June 30	75	2182
Nipple, Nursing	H. Meier	26,377	Dec. 8	77	1587
Nipple, Slip	C. T. Pratt	25,709	June 30	75	2182
Nozzle	W. R. Park and B. T. Williston	26,028	Sept. 15	76	1706
Nozzle	F. C. Woods	25,916	Aug. 11	76	954
Number-plate	W. E. Banning	25,829	July 21	76	469
Nut-lock	A. F. Bernard	25,915	Aug. 11	76	953
Oil-guard	J. A. Giles	25,146	Feb. 11	74	799
Opera-glass holder	B. H. Blauk	25,838	July 28	76	602
Oven, Bake	E. H. Huenefeld	25,782	July 14	76	329
Oven-shelf	A. B. Garling	26,402	Dec. 15	77	1773
Overalls	C. E. Lightner	25,933	Aug. 11	76	956
Padlock	J. Roche	25,664	June 23	75	1999
Padlock-case	C. A. Erichson	26,462	Dec. 29	77	2126
Padlock-case	F. R. Hirsh	25,174	Feb. 18	74	955
Padlock-case	W. H. Taylor	26,039	Sept. 15	76	1707
Pail or bucket	C. H. McCauley	25,727	June 30	75	2184
Painter's cabinet	A. N. Pringle	26,332	Nov. 24	77	1264
Fan	W. Fowler, Jr.	25,131	Feb. 4	74	647
Fan	L. Kahn and J. Martin	25,132	Feb. 4	74	648
Fan, Bake	H. K. Vosburgh	25,482	May 12	75	987
Fan, Meat	F. A. Mabee and J. F. Zetzsche	25,106	Jan. 28	74	490
Panel, Ceiling	W. R. Kinnear	25,924	Aug. 11	76	955
Panel, Ceiling	W. R. Kinnear	25,925	Aug. 11	76	955
Panel, Ceiling or wall	F. G. Caldwell	25,330	Mar. 31	74	1890
Panel for ceilings	W. R. Kinnear	25,886	Aug. 4	76	777
Paper box	P. B. Myers	26,297	Nov. 17	77	1116
Paper box	T. E. Wiedersheim, Jr.	25,195	Feb. 25	74	1115
Paper-cutter	J. Slater	25,116	Feb. 4	74	645
Paper-holder or similar article	L. Arkin	26,320	Nov. 24	77	1262
Paper holders and cutters, Frame for roll	E. B. Weston	25,761	July 7	76	156
Paper-knife	H. C. Kirk, Jr.	25,605	June 9	75	1697
Paper, Wall	C. Booz	26,086	Sept. 22	76	1847
Paper, Wall	C. Booz	26,087	Sept. 22	76	1847
Paper, Wall	C. Booz	26,088	Sept. 22	76	1847
Paper, Wall	C. Booz	26,089	Sept. 22	76	1848
Paper, Wall	C. Booz	26,090	Sept. 22	76	1848
Paper, Wall	C. Booz	26,091	Sept. 22	76	1848
Paper, Wall	C. Booz	26,092	Sept. 22	76	1848
Paper, Wall	C. Booz	26,093	Sept. 22	76	1848
Paper, Wall	C. Booz	26,094	Sept. 22	76	1848
Paper, Wall	C. Booz	26,095	Sept. 22	76	1848
Paper, Wall	C. Booz	26,096	Sept. 22	76	1848
Paper, Wall	C. Booz	26,097	Sept. 22	76	1849
Paper, Wall	C. Booz	26,098	Sept. 22	76	1849
Paper, Wall	C. Booz	26,099	Sept. 22	76	1849
Paper, Wall	C. Booz	26,100	Sept. 22	76	1849
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Paper. Wall.	C. Booz	26,127	Sept. 29	76	2000
Paper. Wall.	C. Booz	26,128	Sept. 29	76	2000
Paper. Wall.	C. Booz	26,129	Sept. 29	76	2000
Paper. Wall.	C. Booz	26,130	Sept. 29	76	2000
Paper. Wall.	C. Booz	26,131	Sept. 29	76	2000
Paper. Wall.	C. Booz	26,132	Sept. 29	76	2000
Paper. Wall.	C. Booz	26,133	Sept. 29	76	2000
Paper. Wall.	C. Booz	26,134	Sept. 29	76	2001
Paper. Wall.	C. Booz	26,135	Sept. 29	76	2001
Paper. Wall.	C. Booz	26,136	Sept. 29	76	2001
Paper. Wall.	C. Booz	26,137	Sept. 29	76	2001
Paper. Wall.	C. Booz	26,138	Sept. 29	76	2001
Paper. Wall.	C. Booz	26,139	Sept. 29	76	2001
Paper. Wall.	C. Booz	26,140	Sept. 29	76	2001
Paper. Wall.	C. Booz	26,141	Sept. 29	76	2001
Paper. Wall.	C. Booz	26,142	Sept. 29	76	2001
Paper. Wall.	C. Booz	26,210	Oct. 20	77	448
Paper. Wall.	C. Booz	26,211	Oct. 20	77	448
Paper. Wall.	L. Clémence	26,131	Sept. 29	76	1999
Paper. Wall.	P. Groeber	26,132	Sept. 29	76	1999
Paper. Wall.	P. Groeber	26,133	Sept. 29	76	1999
Paper-weight.	H. F. Ackerman	25,911	Aug. 11	76	953
Parasol or like article	W. C. B. Sperry	25,368	Apr. 7	75	177
Pattern. Decorative.	G. de Festetics	25,219	Mar. 3	74	1268
Pattern for bicycle-garments.	T. H. Rorcy	25,191	Feb. 18	74	958
Pattern for metal stock	P. O. Dickinson	25,287	Mar. 24	74	1722
Pattern. Skirt	T. H. Rorcy	25,190	Feb. 18	74	958
Paving-block	J. Schwewchler	25,334	Mar. 31	74	1890
Pedal foot-piece	R. Janney	26,412	Dec. 15	77	1775
Pedal foot-plate	C. H. Metz	25,441	Apr. 28	75	669
Pedal-shaft	C. H. Metz	25,336	Mar. 31	74	1891
Pedals. Foot-rest for	W. N. Beardsley	26,110	Oct. 6	77	146
Pen-rack	A. M. Augustine	26,103	Sept. 29	76	1997
Pen-rack and inkstand	G. H. Allen	25,839	July 28	76	602
Pen-guard	A. N. Woodard	26,379	Dec. 8	77	1588
Pen. Hog	J. L. Gilmore	26,228	Oct. 27	77	625
Pen-rack	F. Wood	26,319	Nov. 24	77	1262
Pencil-case body or back	W. A. Mathews	25,315	Mar. 31	74	1887
Pencil. Lead	A. Kaiser	25,565	June 2	75	1537
Pencil. Lead	A. Kaiser	25,566	June 2	75	1537
Pencil. Lead	A. Kaiser	25,606	June 9	75	1697
Pencil. Lead	A. Kaiser	25,700	June 30	75	2121
Pencil. Lead	S. Kraus	26,395	Dec. 15	77	1772
Photographic card-mount.	P. J. Stuparich	26,427	Dec. 22	77	1930
Piano-case	S. Brambach	25,198	Feb. 25	74	1115
Piano-case	P. M. Zeidler	25,898	Aug. 4	76	779
Piano-casing	S. Grollman	25,393	Apr. 14	75	340
Picture-frame	A. J. Ripley	26,348	Dec. 1	77	1418
Picture-frame molding	C. Bosworth	25,215	Mar. 3	74	1268
Picture-frame molding	C. Bosworth	25,216	Mar. 3	74	1268
Picture-frame molding	C. Bosworth	25,217	Mar. 3	74	1268
Picture-frame molding	C. Bosworth	25,218	Mar. 3	74	1268
Picture-mat	A. Wells	25,644	June 16	75	1845
Pictures, &c. Frame for	L. Dorsam	25,038	Jan. 7	74	136
Pictures, &c. Frame for	N. Stein	26,276	Nov. 17	77	1113
Pillow-case	A. W. Hanington	26,417	Dec. 15	77	1776
Pin	C. P. Tillinghast and G. F. Albro	26,058	Sept. 22	76	1843
Pin or badge	A. Q. Addison and W. E. Heald	25,935	Aug. 18	76	1106
Pin or button. Campaign	F. W. Coyne	26,234	Nov. 3	77	803
Pin-tray	C. T. Rogers	26,217	Oct. 27	77	624
Pipe	W. Demuth	25,564	June 2	75	1537
Pipe	W. Simon	25,546	May 26	75	1354
Pipe-ferrule	M. L. Kaufmann	26,324	Nov. 24	77	1262
Pipe mounting. Tobacco	E. S. Smith	26,354	Dec. 1	77	1419
Pipe-mouthpiece	W. Demuth	26,104	Sept. 29	76	1997
Pipe-mouthpiece	M. Mayer	25,772	July 14	76	327
Pipe-scraper	L. Whiting	26,063	Sept. 22	76	1244
Pipe-swage	J. B. Dockery and J. G. Chonteau	25,127	Feb. 4	74	647
Pitcher or similar article	A. B. Evans	25,122	Feb. 4	74	646
Planing-machine ram	U. Eberhardt	25,804	July 21	76	465
Plant-protector	E. F. Orner	25,490	May 12	75	989
Plate	I. La Ferté	26,024	Sept. 15	76	1705
Plate	C. E. Haviland	25,515	May 19	75	1192
Plate	C. E. Haviland	25,516	May 19	75	1192
Plate	E. Laubinger	25,404	Apr. 21	75	499
Plate, &c.	A. B. Sellers	25,208	Mar. 3	74	1267
Plate, Child's	C. L. Wagandt	25,140	Feb. 11	74	798
Pliers	A. N. Clark	25,978	Aug. 25	76	1269
Flow-handle or grip	L. L. Christian	26,444	Dec. 22	77	1933
Plumb and level frame	L. S. Starrett	25,392	Apr. 14	75	340
Plush fabric	W. G. Collins	25,494	May 12	75	989
Plush or pile fabric	W. G. Collins	25,743	June 30	75	2187
Plush or pile fabrics. Pattern for	C. M. Aikman	25,901	Aug. 4	76	780
Plush or pile fabrics. Pattern for	W. G. Collins	25,742	June 30	75	2186
Pocket-book, &c	P. O. Dickinson	25,600	June 9	75	1697
Pocket-book, &c	P. O. Dickinson	25,901	June 9	75	1697
Pocket-book, &c	P. O. Dickinson	25,820	July 21	76	468
Pocket-book, &c	P. O. Dickinson	25,821	July 21	76	468
Pocket-book corner-piece	W. Turton	25,969	Aug. 25	76	1267
Pocket-book corner-piece	W. Turton	25,970	Aug. 25	76	1268
Pocket-book corner-piece	W. Turton	25,971	Aug. 25	76	1268
Pocket-book corner-piece	W. Turton	25,972	Aug. 25	76	1268

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Design.	Name.	No.	Date.	Official Gazette.	
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Pocket-book frame	A. W. Scheuber	25,278	Mar. 24	74	1721
Portière-rope	F. W. Oehrlé	26,303	Nov. 17	77	1117
Press-frame	J. K. Krieg	25,884	Aug. 4	76	777
Presser-bar	S. M. Jacoby	25,882	Aug. 4	76	777
Price-list standard	D. H. Durston	26,308	Nov. 17	77	1118
Printer's galley	J. Kissinger and E. Law	25,390	Apr. 14	75	340
Printer's wrench	J. L. Lee	26,157	Oct. 6	77	146
Printing-press frame. Hand-cylinder	J. L. Lee	26,467	Dec. 29	77	2127
Pulley	D. E. Newell	25,718	June 30	75	2183
Pulley-block	W. J. and G. Lane	26,038	Sept. 15	76	1707
Pump-base	J. C. Davis	25,070	Jan. 21	74	370
Pump-chamber-casing	C. C. Worthington	25,621	June 9	75	1699
Pump-head. Rotary	E. D. Johnston	25,461	May 5	75	827
Pump-head. Rotary	W. W. Wainwright	25,444	Apr. 28	75	669
Puzzle	W. S. Bates	25,350	Apr. 7	75	174
Puzzle	T. W. Kloman	26,317	Nov. 24	77	1261
Puzzle-board	E. O. Bentley	26,010	Sept. 8	76	1570
Puzzle-box	C. B. R. Bitter	26,162	Oct. 6	77	146
Puzzle-box	E. Hersen	26,164	Oct. 6	77	147
Puzzle-box	J. Peterkin	26,163	Oct. 6	77	146
Puzzle-box	J. D. Schmidt	26,165	Oct. 6	77	147
Puzzle-box	H. Schneider	26,229	Oct. 27	77	825
Puzzle-box	H. Wilson	26,230	Oct. 27	77	626
Puzzle-box or case	F. W. Hall	25,964	Aug. 18	76	1110
Puzzle-box or case	A. E. Lester	25,840	July 28	76	603
Puzzle-box or case	E. M. Peck	25,963	Aug. 18	76	1110
Puzzle-sheet	S. Stophlet	26,009	Sept. 8	76	1569
Quilt. Bed	F. Robinson	25,291	Mar. 24	74	1723
Rack	M. V. B. Pabor	25,439	Apr. 28	75	668
Radiator	F. Clare	25,739	June 30	75	2186
Radiator	T. Holland	25,975	Aug. 25	76	1268
Radiator	J. Scherer	26,388	Dec. 8	77	1589
Radiator	J. S. Yard	25,045	Jan. 7	74	137
Radiator-casing. Electric	J. F. McElroy	25,593	June 2	75	1541
Radiator. Loop	H. A. Siebert	26,203	Oct. 20	77	447
Radiator-loop	H. A. Siebert and F. W. Hodges	26,247	Nov. 3	77	804
Radiator. Steam	C. R. Harris	26,159	Oct. 6	77	116
Rail-splice	W. S. Patterson	26,404	Dec. 15	77	1773
Railway-rail brace	A. T. Terry	26,113	Sept. 29	76	1998
Railway-spike	A. Barrows	26,408	Dec. 15	77	1774
Raisin-seeder frame	A. C. Williams	25,869	Aug. 4	76	775
Rake-head	F. E. Kohler	25,179	Feb. 18	74	956
Rake. Lawn	F. E. Kohler	26,246	Nov. 3	77	804
Range. Kitchen	E. Ambrose	25,812	July 21	76	467
Range. Portable	J. F. Whitman	25,583	June 2	75	1539
Razor-wiper	P. J. Bertucci	26,020	Sept. 15	76	1704
Reflector for annular burners	J. Mitchell	25,321	Mar. 31	74	1888
Refrigerating-case	C. Siwitsky	25,068	Jan. 21	74	370
Refrigerator display-case	H. J. Vouwie	25,784	July 14	76	329
Ring	C. Knapp	26,392	Dec. 15	77	1772
Rock and ore crushers. Frame for	P. W. Gates	25,426	Apr. 21	75	502
Roof-cap	W. W. Turner	26,226	Oct. 27	77	625
Roof-plate	W. W. Turner	26,201	Oct. 20	77	447
Rubber bag	C. V. Pollock	25,430	Apr. 21	75	502
Rubber frame. Hand	J. B. Glasscock	26,468	Dec. 29	77	2127
Rug	E. H. Bennett	25,903	Aug. 4	76	780
Rug	J. Merry	25,933	Aug. 11	76	956
Rug	A. Petzold	25,902	Aug. 4	76	780
Rule or measuring-stick	J. Davis	25,609	June 9	75	1697
Ruler	W. V. Wilson	25,261	Mar. 24	74	1719
Sad-iron	M. Sweeney	26,301	Nov. 17	77	1117
Sad-iron cross-bar	J. W. Brown, Jr	25,520	May 19	75	1193
Sad-iron heater	C. H. Boeck	26,302	Nov. 17	77	1117
Sad-iron heater	L. Kahn	25,438	Apr. 28	75	668
Sad-iron holder	H. E. Butler	25,581	June 2	75	1539
Sad-iron holder	M. L. Newell	26,330	Nov. 24	77	1264
Saddle pommel-plate	E. J. Toof	26,030	Sept. 15	76	1706
Saddle-seat	G. E. Bates and R. Dey	25,153	Feb. 11	74	800
Saddle-seat support	B. S. Seaman	26,384	Dec. 8	77	1588
Sales bin or box	J. A. Flesch	25,199	Feb. 25	74	1116
Sash lock. Window	T. W. Crozier	25,712	June 30	75	2182
Sash-weight	R. R. Bren	26,174	Oct. 13	77	306
Saw	T. L. Wallace	25,763	July 7	76	156
Scale-frame	E. N. Gilfillan	25,327	Mar. 31	74	1889
Scale-weight	J. W. Culmer	25,721	June 30	75	2183
Scarf-rack	H. E. Eyman	25,059	Jan. 21	74	368
Scissors	T. W. Foster	25,263	Mar. 24	74	1719
Scissors-sharpener frame or block	J. W. Slayton	25,126	Feb. 4	74	647
Screw case or cabinet	J. D. Warren	25,732	June 30	75	2185
Screw. Thumb	F. C. von Heydebrand und der Lasa	26,027	Sept. 15	76	1705
Sealer's tool. Car	W. F. Fallon	25,883	Aug. 4	76	777
Seat	J. C. Gooding	25,734	June 30	75	2185
Seat and desk. School	S. W. Peregrine	25,073	Jan. 21	74	371
Seat for commodore, &c	J. Nichols	26,365	Dec. 1	77	1420
Setting-die	F. S. McKenney	26,076	Sept. 22	76	1845
Setting-die	F. S. McKenney	26,077	Sept. 22	76	1847
Sewing-machine cabinet	G. W. Longstaff	25,104	Jan. 28	74	483
Sewing-machine frame	R. Pierpont	25,585	June 2	75	1542
Sewing-machines. Fan for	W. B. Hollowell	26,155	Oct. 6	77	140
Shade-holder	F. S. Chase	26,105	Sept. 29	76	1990
Shaft. Crank	W. N. Booth and I. Lewis	25,717	June 30	75	2186
Sharpener block. Scissors	J. Q. Adams	25,714	June 30	75	2186
Sheet-metal can	C. W. Hart	26,364	Dec. 1	77	1429
Shelf-bracket	T. Corscaden	25,785	July 14	76	329

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Design.	Name.	No.	Date.	Official Gazette.	
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Sheller for green peas, &c	A. E. Drew	26,283	Nov. 17	77	1114
Shirt-collar	O. Hammerstein	26,304	Nov. 17	77	1117
Shoe	J. S. Cutaia	25,429	Apr. 21	75	502
Shoe	H. M. Stephens	26,307	Nov. 17	77	1118
Shoe-elevator	G. W. Hills	25,242	Mar. 10	74	1436
Shoe-sole	J. B. Plant	25,594	June 2	75	1541
Shoe-welt	J. Walden	26,399	Dec. 15	77	1773
Shutter-bower bracket	G. F. S. and H. Zimmerman	25,129	Feb. 4	74	647
Shutter-bowing-clasp. Window	W. H. Bothwell	25,781	July 14	76	322
Sign	O. F. Wood	26,080	Sept. 22	76	1846
Sign. Advertising	F. B. Hart	25,448	Apr. 28	75	670
Sign and hat-rack	C. Hofmann	25,948	Aug. 18	76	1107
Sign-case. Advertising	H. F. Nehr	25,359	Apr. 7	75	175
Sign-letter	J. A. Irving	26,078	Sept. 22	76	1246
Sign-post	C. H. Lawton and H. H. Stoner	26,079	Sept. 22	76	1246
Silversmith's stock	W. H. Jamouneau	25,286	Mar. 24	74	1732
Silversmith's stock or ornament	P. Muhr	25,769	July 14	76	327
Silverware-border	C. D. Graff	26,195	Oct. 20	77	446
Silverware-border	C. D. Graff	26,196	Oct. 20	77	446
Silverware-border	C. Osborne	25,938	Aug. 18	76	1106
Skirt-retainer	J. T. Moore	25,118	Feb. 4	74	646
Sled	W. E. Herbst	25,550	May 26	75	1355
Sleigh	H. A. Moyer	25,135	Feb. 4	74	648
Slipper	M. Authier	25,236	Mar. 3	74	1272
Snap-hook	J. B. Fitch	26,109	Sept. 29	76	1997
Snap-hook	G. M. Hubbard	26,279	Nov. 17	77	1114
Snap-hook	S. J. Kingston	25,798	July 21	76	465
Snap-hook	C. H. Smith	26,356	Dec. 1	77	1419
Soap dish or holder	E. L. Snyder	26,352	Dec. 1	77	1419
Soap-holder	J. Steuer	25,729	June 30	75	2185
Soda-fountain plate	H. J. Welsh	25,276	Mar. 24	74	1721
Sole. Tap	W. Kurzenknebe	25,757	July 7	76	155
Sponge-cup	J. Berner	25,660	June 23	75	1998
Sponge-cup	G. H. Steadman	25,755	July 7	76	155
Spool-holder	R. Fraser	25,859	Aug. 4	76	774
Spoon, &c	E. W. Campbell	25,634	June 16	75	1844
Spoon, &c	E. L. Crowell, Jr	26,393	Dec. 15	77	1772
Spoon	W. H. Deuble	25,204	Mar. 3	74	1266
Spoon	P. Farnham	26,212	Oct. 27	77	623
Spoon	A. Garner	25,168	Feb. 18	74	955
Spoon	L. R. Horton	25,193	Feb. 25	74	1115
Spoon, &c	A. F. Jackson	25,635	June 16	75	1844
Spoon	J. W. Maillot	25,259	Mar. 24	74	1718
Spoon, &c	P. B. Noyes	25,558	June 2	75	1536
Spoon	P. B. Noyes	25,633	June 16	75	1844
Spoon	A. U. Potter and F. R. Dane	25,346	Apr. 7	75	173
Spoon, &c	E. W. Scott	25,690	June 30	75	2180
Spoon	A. F. Shriver	25,852	Aug. 4	76	774
Spoon	I. B. Smith	25,502	May 19	75	1190
Spoon, &c	H. L. Wallace	25,347	Apr. 7	75	173
Spoon-handle	E. Crees and C. S. Court	25,505	May 19	75	1191
Spoon-handle	E. Crees and C. S. Court	25,936	Aug. 18	76	1106
Spoon-handle, &c	C. Osborne	25,559	June 2	75	1536
Spoon-handle	F. E. Pretat	26,269	Nov. 17	77	1112
Spoon-holder	J. Young	25,319	Mar. 31	74	1888
Spoons, &c. Handle for	W. C. Codman	25,503	May 19	75	1190
Spoons, &c. Handle for	W. C. Codman	25,504	May 19	75	1191
Spoons, &c. Handle for	W. C. Codman	25,691	June 30	75	2180
Spoons, &c. Handle for	J. W. Fuller	25,169	Feb. 18	74	955
Spoons, &c. Handle for	L. R. Horton	25,853	Aug. 4	76	774
Spoons, &c. Handle for	A. F. Jackson	25,692	June 30	75	2181
Spoons, &c. Handle for	J. W. Maillot	26,268	Nov. 17	77	1112
Spoons, &c. Handle for	C. Osborne	25,433	Apr. 28	75	668
Spoons, &c. Handle for	G. Rockwell	25,693	June 30	75	2181
Spoons, &c. Handle for	H. L. Wallace	25,854	Aug. 4	76	774
Spoons, &c. Handle for	H. L. Wallace	25,855	Aug. 4	76	774
Spoons, &c. Handle for	C. M. Whitmore	25,237	Mar. 10	74	1435
Spring	W. Esty	26,253	Nov. 10	77	966
Sprinkler	O. F. Burton	25,803	July 21	76	465
Sprocket-wheel	J. M. Fiske	26,443	Dec. 22	77	1932
Stall-floor support	H. S. Walbridge	25,210	Mar. 3	74	1267
Stereoscopes. Bridge-piece for	A. Sessler	26,305	Nov. 17	77	1117
Stocking	W. W. Baldwin	25,066	Jan. 21	74	369
Stove	L. Kahn	25,133	Feb. 4	74	648
Stove ash-box	J. C. Bump	26,006	Sept. 8	76	1569
Stove-base	L. Kahn	25,108	Jan. 28	74	490
Stove-base	A. Ohnemus	26,037	Sept. 15	76	1707
Stove bottom plate	E. Ambrose	25,551	May 26	75	1355
Stove. Cooking	H. W. Beattie	26,262	Nov. 10	77	967
Stove. Cooking	G. E. Wilbur	25,810	July 21	76	466
Stove. Cooking	L. Kahn	25,325	Mar. 31	74	1889
Stove door or panel	C. Lederhos	25,463	May 5	75	828
Stove fount. Oil	T. R. Kennedy and E. J. King	25,054	Jan. 14	74	284
Stove. Gas	W. H. Wilkinson	26,150	Oct. 6	77	145
Stove. Gas	A. H. Wolf	25,284	Mar. 24	74	1732
Stove. Gas	A. H. Wolf	26,327	Nov. 24	77	1263
Stove. Gas	W. S. Stevenson	26,473	Dec. 29	77	2128
Stove-grate	E. Ambrose	25,811	July 21	76	467
Stove. Heating	G. M. Cock	26,249	Nov. 3	77	805
Stove. Heating	J. L. Gobeille	25,421	Apr. 21	75	501
Stove. Heating	J. J. Graves	25,067	Jan. 21	74	369
Stove. Heating	E. Gurney	25,947	Aug. 18	76	1107
Stove. Heating	J. W. Herrick	26,248	Nov. 3	77	805
Stove. Heating	L. J. Lennox	26,368	Dec. 1	77	1421

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Stove. Heating.....	A. Ohnemus	26,474	Dec. 29	77	2128
Stove. Heating.....	T. I. Rankin	25,447	Apr. 28	75	669
Stove. Lamp.....	F. E. Browne	25,396	Apr. 14	75	341
Stove-lid lifter.....	C. W. Kennedy	25,764	July 7	76	156
Stove-lining	F. O. Farwell	26,472	Dec. 29	77	2128
Stove. Oil.....	C. Lederhos	25,462	May 5	75	827
Stove. Oil heating.....	C. H. Boeck	25,813	July 21	76	467
Stove or range. Cooking.....	J. J. Graves	26,369	Dec. 1	77	1421
Stovepipe-shelf.....	F. O. Farwell	25,809	July 21	76	466
Stove shelf-section.....	H. W. Beattie	26,261	Nov. 10	77	967
Stoves. High shelf for.....	E. J. King and T. R. Kennedy	25,155	Feb. 11	74	801
Strainer-box.....	I. Brindle	26,225	Oct. 27	77	625
Syringe. Nasal.....	R. E. Conlin	25,510	May 19	75	1191
Table.....	D. A. Beckwith	25,676	June 23	75	2000
Table.....	J. F. McKenzie	26,448	Dec. 22	77	1933
Table-cloth fastener.....	T. R. Desjardins	25,058	Jan. 21	74	368
Table-cover, &c.....	C. Forrester	25,160	Feb. 11	74	801
Table-knife	S. N. Howestoll	25,988	Sept. 8	76	1566
Table-leg	H. Johnson	25,483	May 12	75	987
Table-vessel	L. W. Sweet	25,139	Feb. 11	74	798
Tack. Curtain.....	C. M. Numan	26,260	Nov. 10	77	967
Tag.....	T. H. Deveau	25,274	Mar. 24	74	1721
Tag.....	S. A. Foster	25,819	July 21	76	464
Tag-fastener.....	A. Terhune	25,756	July 7	76	155
Tank-shield	J. G. Brown	25,921	Aug. 11	76	954
Tea or coffee pot blank.....	T. D. Brown	25,285	Mar. 24	74	1722
Telephone toll-box.....	W. Gray	25,128	Feb. 4	74	647
Thinning-tool for cotton, &c.....	J. M. Sanders	26,333	Nov. 24	77	1264
Tie and scarf holder.....	O. L. Settles	26,194	Oct. 20	77	446
Title.....	F. Alcan	25,530	May 19	75	1194
Title. Crest.....	C. C. Alexander	25,109	Jan. 28	74	490
Title. Rooting.....	J. R. Bryant	25,052	Jan. 14	74	265
Title. Skylight.....	N. Spurgin	25,531	May 19	75	1194
Tire. Elastic.....	J. Mark	25,331	Mar. 31	74	1690
Tire material. Rubber.....	J. L. Dann	26,338	Nov. 24	77	1265
Tire shield. Bicycle.....	J. F. Seiberling	26,115	Sept. 29	76	1998
Tire-valve cap.....	T. Furlong	25,459	May 5	75	827
Toaster.....	G. H. F. Schrader	25,774	July 14	76	328
Tobacco. Block or body of plug.....	L. Wojdkow	26,437	Dec. 22	77	1931
Tobacco-case.....	J. H. Sparger	25,959	Aug. 18	76	1109
Tobacco-cutter.....	S. H. Arrell	25,610	June 9	75	1698
Toe-clip.....	W. Bayley	26,355	Dec. 1	77	1419
Toilet-stand.....	S. W. Bevin	25,913	Aug. 11	76	953
Tool-handle.....	H. W. Fitz	25,731	June 30	75	2185
Toothpick-holder.....	J. A. Traut	26,464	Dec. 29	77	2127
Torch attachment.....	S. Fuerstenberg	25,352	Apr. 7	75	174
Toy.....	O. Frasher	26,200	Oct. 20	77	446
Toy.....	J. Bruce	26,425	Dec. 22	77	1930
Toy.....	H. S. Kerr	25,310	Mar. 31	74	1887
Toy bank.....	C. F. Clarke	26,197	Oct. 20	77	446
Toy bank.....	R. Frisbie	25,662	June 23	75	1998
Toy bank.....	C. J. Slaughter	25,815	July 21	76	467
Toy cannon.....	E. R. Ives	25,239	Mar. 10	74	1435
Toy-cap exploder.....	E. R. Ives	25,147	Feb. 11	74	800
Toy-cap exploder.....	E. R. Ives	25,148	Feb. 11	74	800
Toy-cap exploder.....	E. R. Ives	25,275	Mar. 24	74	1721
Toy car.....	E. R. Ives	25,722	June 30	75	2183
Toy. Illuminated.....	H. Dock	26,081	Sept. 22	76	1846
Toy-rocker pattern.....	G. W. Korn	25,041	Jan. 7	74	137
Toy safe.....	C. A. Bailey	25,577	June 2	75	1538
Toy-sand-mill frame.....	M. B. Scharles	26,325	Nov. 24	77	1263
Toy-sled pattern.....	G. W. Korn	25,042	Jan. 7	74	137
Toy stove.....	C. A. Bailey	26,326	Nov. 24	77	1263
Toy tea-kettle.....	C. A. Bailey	25,578	June 2	75	1539
Toy whistle.....	L. Gohlke and F. H. Marx	25,470	May 12	75	986
Toys. Rocking frame for bell.....	H. Thomas	25,579	June 2	75	1539
Transformer-case.....	W. S. Moody	25,762	July 7	76	156
Transom-light plate.....	S. S. Bradshaw	25,716	June 30	75	2183
Trimming.....	H. Bernstein	25,818	July 21	76	468
Trimming-knife.....	E. S. Harris	25,098	Jan. 28	74	488
Trousers-hanger.....	E. G. Hanford	26,280	Nov. 17	77	1114
Trowel.....	C. H. Smith	26,204	Oct. 20	77	447
Truck frame. Car.....	G. M. Brill	26,382	Dec. 8	77	1588
Truck side bar.....	W. S. Adams	25,102	Jan. 28	74	489
Truck side bar.....	S. M. Curwen	26,442	Dec. 22	77	1932
Truck side frame.....	G. M. Brill	26,383	Dec. 8	77	1588
Truck side frame. Car.....	J. A. Brill	26,405	Dec. 15	77	1774
Truck side frame. Car.....	J. A. Brill	26,406	Dec. 15	77	1774
Truck side frame. Car.....	J. A. Brill	26,407	Dec. 15	77	1774
Truck side frame. Car.....	E. F. Goltra	26,114	Sept. 29	76	1998
Trucks. Casing for side bearings of car.....	E. Clif	25,958	Aug. 18	76	1109
Turning-machine roller.....	M. Ross	25,779	July 14	76	328
Twine-holder.....	A. S. Comstock	25,705	June 30	75	2182
Type. Font of.....	B. Nadall	25,741	June 30	75	2186
Type. Font of.....	W. F. Cornell	26,310	Nov. 17	77	1118
Type. Font of.....	C. Schraubstadter, Jr.	25,899	Aug. 4	76	780
Type. Font of printing.....	C. E. Heyer	25,552	May 26	75	1355
Type. Font of printing.....	B. Nadall	25,524	May 19	75	1193
Type. Font of printing.....	W. A. Schraubstadter	25,389	Apr. 14	75	340
Type. Font of printing.....	D. B. Updike and B. G. Goodhue	25,979	Aug. 25	76	1269
Type ornaments. Font of.....	B. Nadall	25,740	June 30	75	2186
Umbrella-stand.....	M. J. Collins	25,645	June 16	75	1846
Undergarment.....	S. E. Clifton	25,250	Mar. 17	74	1582
Undergarment.....	I. Goldberger	26,232	Oct. 27	77	626

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Design.	Name.	No.	Date.	Official Gazette.	
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Undershirt.....	J. M. Heyman.....	25,342	Mar. 31	74	1892
Valve-casing.....	E. H. Lunken.....	25,720	June 30	75	2183
Valve hand-wheel.....	J. Giles.....	25,527	May 19	75	1194
Valve-pot.....	C. C. Worthington.....	25,622	June 9	75	1699
Valve-support.....	W. Esty.....	26,256	Nov. 10	77	967
Valves. Casing for siphon-discharge.....	H. P. Cope.....	25,100	Jan. 28	74	488
Vaporizer.....	J. S. Judge.....	25,509	May 19	75	1191
Vault-light.....	J. G. Pennycuik.....	25,573	June 2	75	1538
Vegetable-cutter frame.....	G. A. J. Joetten and J. Mittel, Jr.....	25,456	May 5	75	826
Vehicle-body.....	A. L. Stafford.....	25,759	July 7	76	155
Vehicle-frame.....	C. E. Woods.....	25,920	Aug. 11	76	954
Vehicle-seat.....	W. A. Sayers.....	25,339	Mar. 31	74	1891
Vehicle-step shank.....	H. C. Swan.....	25,103	Jan. 28	74	489
Velocipede fork and crown.....	W. Bown and J. H. Hughes.....	25,974	Aug. 25	76	1268
Velocipede fork and crown.....	A. G. Moore.....	26,411	Dec. 15	77	1775
Velocipede name-plate.....	G. T. McIntosh.....	26,385	Dec. 8	77	1589
Velocipede toe-clip.....	D. Basch.....	26,284	Nov. 17	77	1114
Vending-apparatus case.....	M. E. Fagan.....	25,241	Mar. 10	74	1435
Vending-machine casing.....	C. E. McDowell.....	25,649	June 16	75	1846
Vessel. Handled.....	T. B. Brown.....	25,857	Aug. 4	76	774
Violin.....	E. N. Livermore.....	26,423	Dec. 22	77	1930
Violin shoulder-rest.....	H. O. Peabody.....	26,220	Oct. 27	77	624
Voting-booth.....	A. A. Selkirk.....	26,227	Oct. 27	77	625
Waist.....	T. B. Fitzpatrick.....	25,246	Mar. 10	74	1436
Washing-machine casing.....	C. Dietz.....	25,623	June 9	75	1699
Washing-machine clip.....	G. S. Batcheller.....	26,110	Sept. 29	76	1997
Washing-machine frame.....	Z. Doyle.....	26,366	Dec. 1	77	1421
Washstand-frame.....	R. C. Whayne.....	25,730	June 30	75	2185
Watchcase.....	C. L. Depollier.....	25,398	Apr. 14	75	341
Watchcase.....	J. C. Dueber.....	26,421	Dec. 22	77	1929
Watchcase-lid.....	J. C. Dueber.....	25,260	Mar. 24	74	1719
Watch-crown.....	W. S. Richardson.....	25,696	June 30	75	2181
Watch-plate.....	W. C. Ball.....	25,694	June 30	75	2181
Watch-plate.....	W. C. Ball.....	25,695	June 30	75	2181
Watch-plate.....	W. C. Ball.....	26,267	Nov. 17	77	1112
Water-front.....	R. M. Floyd.....	26,266	Nov. 17	77	1112
Water-pillow.....	A. B. Clunies.....	25,891	Aug. 4	76	778
Water-supply fixture.....	A. A. Stoll.....	25,786	July 14	76	329
Weeder.....	F. M. Mackin.....	25,458	May 5	75	826
Wheel-rim.....	R. J. Lipe.....	25,667	June 23	75	1999
Wheel-rim.....	J. M. Goldstein.....	26,116	Sept. 29	76	1998
Wheel-rim.....	E. J. Lobdell.....	25,425	Apr. 21	75	502
Whiffletree-hook.....	C. K. Welch.....	25,997	Sept. 8	76	1566
Whistle.....	N. Hayden and C. F. C. Wurst.....	25,548	May 26	75	1354
Wick-tube. Safety.....	A. J. Abell.....	25,238	Mar. 10	74	1435
Window-rail.....	R. H. Smith.....	26,176	Oct. 13	77	306
Window-roller bracket.....	L. Mannstaedt.....	25,442	Apr. 28	75	669
Wire fabric pattern.....	W. Juddkins.....	26,074	Sept. 22	76	1845
Work-stand.....	J. M. Martin.....	26,235	Nov. 3	77	803
Woven fabric.....	M. A. Long.....	25,484	May 12	75	988
Wrench.....	H. W. Smith.....	26,045	Sept. 15	76	1708
Wrenches. Handle for fruit-jar.....	C. E. Billings.....	26,111	Sept. 29	76	1998
Yoke hook. Neck.....	J. P. Derr.....	25,457	May 5	75	826
	G. A. and F. O. Gregerson.....	25,149	Feb. 11	74	800

ALPHABETICAL LIST OF TRADE-MARKS.

Title.	Name.	No.	Date.	Volume.	Page.	Official Gazette.
Adhesive substances	C. J. Breidbach & Son	28,216	May 3	75	270	
Advertising and printed goods. Certain named.	Kansas City Karnival Krewe	28,117	Apr. 14	75	342	
Air goods	Mechanical Manufacturing Company.	27,985	Mar. 24	74	1726	
Ale	Albany Brewing Company.	28,805	Aug. 25	76	1270	
Ale	Albany Brewing Company.	29,075	Nov. 3	77	807	
Ale	T. McMullen & Co.	29,313	Dec. 15	77	1779	
Ale	T. McMullen & Co.	29,368	Dec. 29	77	2132	
Ale and porter	J. Everard	28,268	May 19	75	1197	
Ale. Ginger.	J. Heinzerling	27,814	Feb. 18	74	970	
Ales and lager-beer.	Quinn & Nolan Ale Brewing Company.	28,634	July 21	76	471	
Alloy for bearings for journals and other mechanisms.	Frictionless Metal Company.	28,753	Aug. 11	76	959	
Alum	Harrison Brothers & Co.	29,363	Dec. 29	77	2132	
Aluminium and aluminium alloys	Pittsburgh Reduction Company	27,654	Jan. 14	74	266	
Ammonia.	National Ammonia Company.	29,049	Oct. 27	77	628	
Ammonia, catsup, and sauce	E. Pritchard	28,564	July 7	76	161	
Ammunition	Peters Cartridge Company.	29,067	Nov. 3	77	806	
Ammunition. Articles of.	Peters Cartridge Company.	29,388	Dec. 29	77	2135	
Ammunition. Articles of.	Peters Cartridge Company.	29,389	Dec. 29	77	2135	
Ammunition, except bullets.	Peters Cartridge Company.	27,971	Mar. 17	74	1525	
Anesthetics	Chemische Fabrik auf Actien, vormals E. Schering.	28,438	June 23	75	2004	
Anodyne expectorant.	Dr. B. J. Kay Medical Company	28,913	Sept. 29	76	2005	
Anti-incrustation compounds.	J. B. Greer	28,644	July 21	76	472	
Antipyretic and analgesic preparations	A. H. Still	29,307	Dec. 15	77	1778	
Antiseptic and astringent applications and powder in bulk or in soaps and creams.	J. P. Millwood	28,653	July 21	76	473	
Antiseptic and germicidal preparation	F. W. R. Eschmann	28,047	Mar. 31	74	1895	
Antiseptic preparations	J. T. Milliken & Co.	27,964	Mar. 17	74	1585	
Antiseptic solutions.	H. Thayer	28,190	Apr. 28	75	671	
Antiseptics and disinfectants	C. F. Potter	28,838	Sept. 1	76	1414	
Antiseptics, food preservatives, and allied preparations.	Patent Borax Company	27,863	Feb. 25	74	1118	
Antiseptics or microbe-destroyers.	C. Marchand	28,652	July 21	76	473	
Antiseptics, perfumery, and other similar compounds.	F. Fritzsche & Co.	28,750	Aug. 11	76	959	
Apertient and cathartic syrup and elixir.	Winkelman & Brown Drug Company.	28,090	Apr. 7	75	180	
Apparel. Wearing.	O'Bryan Bros	28,464	June 30	75	2188	
Asbestos cement for finishing walls	J. B. King & Co.	29,236	Dec. 1	77	1425	
Asbestos or other material for covering pipes	T. K. McKnight	27,638	Jan. 14	74	266	
Ash-pans.	C. O'Mahony	27,788	Feb. 11	74	805	
Astringent sticks for barbers' and shavers' use	F. P. Harned	28,141	Apr. 14	75	344	
Athletic, bicyclists', and sportsmen's wear	A. G. Spalding & Bros	29,028	Oct. 20	77	450	
Axes	Kelly Axe Manufacturing Company.	29,088	Nov. 3	77	806	
Axle-grease	Frazer Lubricator Company	28,650	July 21	76	473	
Axle-grease	A. H. Kilbourn	28,439	June 23	75	2005	
Badges	Milwaukee Novelty Co	29,089	Nov. 3	77	806	
Baked cereal products	J. M. Rueth	27,869	Feb. 25	74	1119	
Bakers' products and confectionery and medicated candy. Certain named	American Biscuit and Manufacturing Company.	28,777	Aug. 18	76	1112	
Baking and yeast powders	F. W. Young	29,162	Nov. 17	77	1120	
Baking-pans. Certain named	W. H. Mullins	28,887	Sept. 22	76	1850	
Baking-powder.	Bain & Chapman Manufacturing Company	28,413	June 16	75	1852	
Baking-powder.	Chapman & Smith Company	27,700	Jan. 28	74	492	
Baking-powder.	H. C. Kegeler	27,957	Mar. 17	74	1584	
Baking-powder.	H. A. Kesepohl & Co	29,200	Nov. 24	77	1268	
Baking-powder.	Keystar Baking Powder Co	27,990	Mar. 24	74	1726	
Baking-powder.	Lamp Chimney Baking Powder Company.	27,779	Feb. 11	74	804	
Baking-powder.	Marshall-Kennedy Milling Company.	28,030	Mar. 31	74	1893	
Baking-powder.	Northwestern Manufacturing Company.	27,797	Feb. 11	74	806	
Baking-powder.	Old Fort Spice and Extract Company.	28,272	May 19	75	1198	
Baking-powder.	Universal Baking Powder Co	27,648	Jan. 14	74	267	
Baking-powder, flour, and cereal preparations	I. Pieser & Co	28,451	June 23	75	2006	
Baking-powder, soap, and flour	J. M. Gray	28,128	Apr. 14	75	343	
Baking-powder, soda, saleratus, washing-powders, extracts, spices, and bluing.	Reed & Gere Manufacturing Co.	28,096	Apr. 7	75	180	
Baking-powders, spices, extracts, and soda-waters	Hewlett Bros	29,281	Dec. 8	77	1593	
Bandages. Suspensory	E. G. Rawson	27,586	July 14	76	330	
Bed-bottoms. Spring	J. G. Smith	28,532	June 30	75	2192	
Bed and bedding	F. A. Hall	28,620	July 21	76	470	
Beef and chocolate. Compound of	La Société Anonyme "La Tilia"	28,312	May 26	75	1357	
Beef and chocolate. Compound of	La Société Anonyme "La Tilia"	28,313	May 26	75	1357	
Beef and chocolate. Compound of	La Société Anonyme "La Tilia"	28,314	May 26	75	1358	
Beef and chocolate. Compound of	La Société Anonyme "La Tilia"	28,315	May 26	75	1358	
Beef and chocolate. Compound of	La Société Anonyme "La Tilia"	28,316	May 26	75	1358	
Beef and cocoa. Compound of	La Société Anonyme "La Tilia"	28,317	May 26	75	1358	
Beef extract	G. J. Hammond	28,484	June 30	75	2189	
Beef. Pressed corned.	A. H. Atwood Company	29,042	Oct. 27	77	627	

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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Beer.....	Aktienbrauerei zum Löwenbräu in München.....	27,994	Mar. 24	74	1727
Beer.....	Aktienbrauerei zum Löwenbräu in München.....	27,995	Mar. 24	74	1727
Beer.....	Christian Moerlein Brewing Company.....	28,106	Apr. 7	75	181
Beer.....	Indianapolis Brewing Company.....	28,107	Apr. 7	75	181
Beer.....	J. Koehler.....	27,691	Jan. 28	74	491
Beer, ale, and malt extract.....	L. Hoster Brewing Company.....	28,632	July 21	76	471
Beer and ale.....	Anchor Brewing Company.....	28,933	Oct. 6	77	149
Beer and ale.....	Wm. J. Lemp Brewing Company.....	28,177	Apr. 21	75	506
Beer and malt tonics. Lager.....	C. A. King.....	27,771	Feb. 11	74	804
Beer and similar malt and hop liquid products. Lager.....	Otto Huber Brewery.....	28,633	July 21	76	471
Beer. Bottled lager.....	Anheuser-Busch Brewing Association.....	28,866	Sept. 8	76	1571
Beer-dispensing apparatus.....	Berner-Mayer Company.....	28,108	Apr. 7	75	182
Beer. Lager.....	Adam Scheidt Brewing Company.....	28,395	June 16	75	1850
Beer. Lager.....	Anheuser-Busch Brewing Association.....	28,867	Sept. 8	76	1571
Beer. Lager.....	Bartholomay Brewery Company.....	29,100	Nov. 3	77	809
Beer. Lager.....	Chicago Brewing Company.....	29,196	Nov. 24	77	1267
Beer. Lager.....	Chicago Brewing Company.....	29,230	Dec. 1	77	1424
Beer. Lager.....	G. Ehret.....	28,360	June 9	75	1701
Beer. Lager.....	Henry Zeltner Brewing Company.....	29,267	Dec. 8	77	1592
Beer. Lager.....	Hills Union Brewery Company.....	28,932	Oct. 6	77	148
Beer. Lager.....	Iroquois Brewing Company.....	28,907	Sept. 29	76	2004
Beer. Lager.....	John F. Wiessner & Son's Brewing Company of Baltimore City.....	28,068	Mar. 31	74	1896
Beer. Lager.....	H. Koehler & Company.....	27,745	Feb. 4	74	650
Beer. Lager.....	Leibinger & Oehm Brewing Company.....	28,566	July 7	76	161
Beer. Lager.....	Lone Star Brewing Company.....	27,642	Jan. 14	74	267
Beer. Lager.....	Rochester Brewing Company.....	28,567	July 7	76	161
Beer. Lager.....	Weger Bros.....	28,267	May 19	75	1197
Beer, porter, and ale. Lager.....	Ph. & Wm. Ehling Brewing Company.....	28,742	Aug. 11	76	958
Belting. Leather.....	Charles Munson Belting Company.....	28,206	May 5	75	829
Belting. Power.....	Fayerweather & Ladew.....	28,983	Oct. 13	77	309
Belting. Power.....	Fayerweather & Ladew.....	28,984	Oct. 13	77	309
Belts, pads, rings, bracelets, bandages, and analogous devices. Electric and magnetic.....	J. Spalding.....	28,182	Apr. 21	75	506
Beverage, cordial, and syrup. Carbonated.....	Drewry & Sons.....	28,686	July 28	76	607
Beverage. Fermented or carbonated non-intoxicant.....	J. J. McLaughlin.....	28,105	Apr. 7	75	181
Beverage made of whey and other waste products of the dairy.....	Dairy Improvement Company.....	28,741	Aug. 11	76	958
Beverage. Non-intoxicating effervescent botanic.....	Kentora Brewery Company.....	29,142	Nov. 10	77	970
Beverage when mixed with water. Compound adapted by its ingredients to form a nutritious.....	Reed & Carnrick.....	28,132	Apr. 14	75	343
Beverages. Acid-phosphate.....	J. Wyeth & Bro.....	28,342	June 2	75	1545
Beverages. Certain named.....	Phillips Bros.....	27,941	Mar. 10	74	1439
Beverages. Non-alcoholic.....	Cox & Co.....	27,773	Feb. 11	74	804
Bicycle-chains.....	Indianapolis Chain and Stamping Company.....	28,799	Aug. 18	76	1114
Bicycle-gear.....	McElwaine-Richards Company.....	27,976	Mar. 17	74	1586
Bicycle saddles.....	Dickson & Beaning.....	28,800	Aug. 18	76	1114
Bicycle saddles.....	A. G. Spalding & Bros.....	28,830	Aug. 25	76	1272
Bicycles.....	Bettys & Mabbett Company.....	28,725	Aug. 4	76	784
Bicycles.....	G. L. Crandal, W. H. Eastwood, H. A. Niles, and C. A. Wilkinson.....	27,655	Jan. 14	74	268
Bicycles.....	Davis Sewing Machine Company.....	28,149	Apr. 14	75	345
Bicycles.....	Dueber Watch Case Manufacturing Company.....	28,611	July 14	76	332
Bicycles.....	Dueber Watch Case Manufacturing Company.....	28,666	July 21	76	474
Bicycles.....	Elmwood Cycle Company.....	28,405	June 16	75	1851
Bicycles.....	H. C. England.....	29,185	Nov. 17	77	1122
Bicycles.....	C. S. Faulkner.....	28,373	June 9	75	1702
Bicycles.....	A. Fay and J. McNab.....	28,798	Aug. 18	76	1114
Bicycles.....	G. H. Foley.....	27,657	Jan. 14	74	268
Bicycles.....	Gendron Wheel Company.....	28,832	Aug. 25	76	1272
Bicycles.....	Grand Rapids Cycle Company.....	28,051	Mar. 31	74	1895
Bicycles.....	Hardy Cycle Company.....	28,520	June 30	75	2192
Bicycles.....	L. C. Jandorf.....	28,199	Apr. 28	75	672
Bicycles.....	Jenkins Cycle Company.....	27,880	Feb. 25	74	1120
Bicycles.....	Jenkins Cycle Company.....	27,930	Mar. 10	74	1438
Bicycles.....	M. E. Johnson.....	29,325	Dec. 15	77	1780
Bicycles.....	King B Cycle Company.....	27,720	Jan. 28	74	494
Bicycles.....	F. A. Lapham.....	27,881	Feb. 25	74	1120
Bicycles.....	J. Long's Sons.....	28,538	July 7	76	158
Bicycles.....	Marion Cycle Company.....	28,052	Mar. 31	74	1895
Bicycles.....	Martin & Gibson Manufacturing Co.....	28,612	July 14	76	332
Bicycles.....	McKee & Harrington.....	27,917	Mar. 3	74	1276
Bicycles.....	Monarch Cycle Manufacturing Company.....	28,024	Mar. 24	74	1730
Bicycles.....	National Sewing Machine Company.....	27,758	Feb. 4	74	652
Bicycles.....	National Sewing Machine Company.....	28,185	Apr. 21	75	506
Bicycles.....	National Sewing Machine Company.....	29,033	Oct. 20	77	450
Bicycles.....	H. Olson.....	27,882	Feb. 25	74	1120
Bicycles.....	Peerless Manufacturing Company.....	28,150	Apr. 14	75	346
Bicycles.....	Premier Cycle Manufacturing Company.....	27,679	Jan. 21	74	376
Bicycles.....	B. F. Raynor, Jr.....	28,613	July 14	76	332
Bicycles.....	Sterling Cycle Works.....	29,340	Dec. 22	77	1936
Bicycles.....	Stoddard Manufacturing Company.....	28,976	Oct. 6	77	152
Bicycles.....	Stoddard Manufacturing Company.....	29,009	Oct. 13	77	312
Bicycles.....	Tonk Manufacturing Company.....	29,186	Nov. 17	77	1122

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Title.	Name.	No.	Date.	Official Gazette.	
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Bicycles.....	Wm. Hengerer Company.....	28,671	July 28	76	605
Bicycles.....	Wm. Hengerer Company.....	28,758	Aug. 11	76	960
Bicycles and like vehicles.....	Pope Manufacturing Company.....	29,397	Dec. 29	77	2136
Bicycles and other velocipedes and parts thereof.....	Remington Arms Company.....	28,610	July 14	76	332
Bicycles and parts of same.....	A. G. Spalding & Bros.....	28,110	Apr. 7	75	182
Bicycles and parts thereof.....	W. E. Davis.....	28,575	July 7	76	162
Bicycles and parts thereof.....	Eastern Cycle Manufacturing Company.....	28,291	May 19	75	1200
Bicycles and parts thereof.....	Hamilton Tube Company.....	28,299	May 26	75	1356
Bicycles and parts thereof.....	F. Mortimer.....	28,406	June 16	75	1851
Bicycles and similar vehicles.....	D. A. Freeman.....	28,673	July 28	76	605
Bicycles and their parts.....	Hamilton Cycle Co.....	27,722	Jan. 28	74	494
Bicycles and tricycles.....	Syracuse Specialty Manufacturing Company.....	27,839	Feb. 18	74	962
Bicycles and tricycles.....	S. D. Warfield.....	27,759	Feb. 4	74	652
Bicycles and tricycles.....	E. B. Willcox.....	29,154	Nov. 10	77	972
Bicycles. Component parts of.....	G. T. Warwick.....	27,977	Mar. 17	74	1586
Bicycles, firearms, and gymnasium apparatus.....	Hulbert Bros. & Company.....	28,856	Sept. 1	76	1416
Bicycles for women.....	King B Cycle Company.....	27,721	Jan. 28	74	494
Bicycles, guns, and pistols.....	M. E. Johnson.....	27,723	Jan. 28	74	494
Bicycles. Ladies' and gentlemen's.....	J. Wanamaker.....	28,152	Apr. 14	75	346
Bicycles or like vehicles.....	W. Crawford.....	28,975	Oct. 6	77	152
Bicycles, parts, and sundries.....	Stanley Cycle Manufacturing Company.....	28,415	June 16	75	1852
Bicycles, their parts, and accessories.....	Richmond Bicycle Company.....	28,300	May 26	75	1356
Bicycles. Tools and appliances for mending.....	F. C. Durant.....	28,372	June 9	75	1702
Bicycles, tricycles, and all vehicles propelled by motive power.....	Grout & Grout.....	28,462	June 23	75	2006
Bicycles, tricycles, and other light vehicles of similar character, and their accessories.....	S. D. Warfield.....	27,658	Jan. 14	74	268
Bicycles, tricycles, and other light vehicles of similar character, and their accessories.....	S. D. Warfield.....	27,659	Jan. 14	74	268
Bicycles, tricycles, and other similar light vehicles and their accessories.....	S. D. Warfield.....	27,949	Mar. 10	74	1440
Bicycles, tricycles, and supplies and attachments therefor.....	H. T. Hearsey.....	27,840	Feb. 18	74	962
Bicycles, tricycles, and the like.....	Reading Standard Manufacturing Company.....	28,759	Aug. 11	76	960
Bicycles, tricycles, delivery-carriers, and their parts and attachments.....	Knickerbocker Cycle Manufacturing Co.....	27,680	Jan. 21	74	376
Bicycles, tricycles, quadricycles, and other light vehicles of similar character and their accessories.....	Adams & Westlake Company.....	27,681	Jan. 21	74	376
Bicycles, tricycles, quadricycles, and other light vehicles of similar character and their accessories.....	Adams & Westlake Company.....	27,682	Jan. 21	74	376
Bicycles, tricycles, velocipedes, sundries, and all articles relating to a bicycle business.....	Hibbard, Spencer, Bartlett & Company.....	29,341	Dec. 22	77	1936
Bicycles, velocipedes, and articles accessory thereto.....	Lozier Manufacturing Company.....	29,008	Oct. 13	77	312
Bicycles, velocipedes, and horseless carriages, their parts and attachments.....	L. Straus & Sons.....	27,916	Mar. 3	74	1276
Bicycles, velocipedes, and similar articles.....	E. Alsdorf Company.....	28,151	Apr. 14	75	346
Bicycles, velocipedes, and similar vehicles.....	G. N. Pierce & Co.....	28,257	May 12	75	992
Bicycles, velocipedes, and their parts and attachments.....	Barnes Cycle Company.....	28,326	June 2	75	1543
Bicycles with pneumatic tires. Safety.....	S. T. Moen.....	28,327	June 2	75	1543
Billiard and pool balls.....	Albany Billiard Ball Company.....	29,149	Nov. 10	77	971
Billiard and pool table cushions.....	F. Rosatto.....	27,633	Jan. 14	74	266
Bird-foods and bird requisites.....	F. Kaempfer.....	28,740	Aug. 11	76	958
Biscuits containing meat.....	La Société Anonyme "La Tilia".....	28,318	May 26	75	1358
Bitters.....	A. Stössel.....	28,908	Sept. 29	76	2004
Bitters. Stomach.....	L. E. Jung & Co.....	28,712	Aug. 4	76	783
Blacking. Boot or shoe.....	Pike Manufacturing Co.....	28,720	Aug. 4	76	784
Blacking or dressing for boots and shoes.....	Teats & Kettenbach.....	28,080	Apr. 7	75	179
Blanc-mange. Prepared.....	H. W. Gowen.....	27,892	Mar. 3	74	1273
Bleaching-powders, carbonate of soda, and crystal and sulfate of soda.....	United Alkali Company.....	28,769	Aug. 18	76	1111
Bleaching, sizing, and finishing textile fabrics. Preparations for.....	William Edge & Sons.....	27,669	Jan. 21	74	375
Blood-purifier and liver-regulator.....	L. W. Estes.....	28,546	July 7	76	159
Bluing.....	American Bluing Company.....	28,697	July 28	76	608
Boards, timber, and deals. Pitch-pine.....	W. S. Keyser.....	29,244	Dec. 1	77	1426
Boilers, sinks, bath-tubs, water-closets, and tanks. Kitchen.....	L. Wolff Manufacturing Company.....	29,291	Dec. 8	77	1594
Boilers. Steam and hot-water.....	Gurney Heater Manufacturing Company.....	27,913	Mar. 3	74	1275
Boilers. Vertical water-tube.....	Aultman & Taylor Machinery Company.....	27,833	Feb. 18	74	962
Boot or shoe heel-plates.....	L. Sacks.....	27,975	Mar. 17	74	1586
Boots. All-wool.....	Hastings Wool Boot Company.....	29,344	Dec. 29	77	2130
Boots and shoes.....	B. A. Corbin & Son.....	28,847	Sept. 1	76	1415
Boots and shoes.....	Foot, Schulze & Co.....	28,075	Apr. 7	75	178
Boots and shoes.....	J. Foster & Co.....	28,056	Mar. 31	74	1895
Boots and shoes.....	J. Foster & Co.....	28,057	Mar. 31	74	1895
Boots and shoes.....	James A. Banister Company.....	28,877	Sept. 15	76	1710
Boots and shoes.....	R. E. Larcom.....	29,257	Dec. 8	77	1591
Boots and shoes.....	Little, Maxwell & Co.....	27,844	Feb. 25	74	1117
Boots and shoes.....	McKay Neverslip Sole Company.....	29,343	Dec. 29	77	2130
Boots and shoes.....	A. E. Nettleton.....	28,848	Sept. 1	76	1415
Boots and shoes.....	Rice & Hutchins.....	29,121	Nov. 10	77	968
Boots and shoes.....	A. W. Tedcastle & Co.....	27,634	Jan. 14	74	266
Boots and shoes.....	William Dorach & Sons Shoe Manufacturing Company.....	28,153	Apr. 21	75	504
Boots and shoes. Leather.....	Little, Maxwell & Co.....	28,231	May 5	75	832
Boots and shoes. Leather.....	White Bros. & Co.....	28,409	June 16	75	1851
Boots and shoes. Leather.....	White Bros. & Co.....	28,410	June 16	75	1851
Boots and shoes made of leather or of leather and cloth.....	G. E. Noyes.....	28,408	June 16	75	1851
Boots and shoes made of leather or of leather and cloth.....	G. E. Noyes.....	28,427	June 23	75	2004
Boots and shoes made of leather or of leather and cloth.....	G. E. Noyes.....	29,258	Dec. 8	77	1591

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Title.	Name.	No.	Date.	Official Gazette.	
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Boots and shoes. Men's, boys', and youths'	Chase, Merritt & Co	27,728	Feb. 4	74	649
Boots and shoes. Men's, boys', youths', women's, misses', and children's	B. A. Corbin & Son	28,875	Sept. 15	76	1710
Boots and shoes. Men's, boys', youths', women's, misses', and children's	B. A. Corbin & Son	28,876	Sept. 15	76	1710
Borax and its compounds, soap and powders, and lotions for cleansing and toilet purposes.	Pacific Coast Borax Company	28,719	Aug. 4	76	754
Borax, soap, cleansing compounds, and toilet and bath powders.	Pacific Coast Borax Company	28,491	June 30	75	2190
Bottle-washing machine.	Hoyt Bros. & Co	28,375	June 9	75	1702
Bottles and flasks. Glass	C. J. Yost	28,853	Sept. 1	76	1415
Bottles or flasks.	S. S. Cline	28,825	Aug. 25	76	1272
Braids.	August Moll Manufacturing Company	28,865	Sept. 8	76	1571
Braids.	Rothschild Bros. & Co	27,688	Jan. 28	74	491
Braids. Silk, worsted, linen, and cotton	August Moll Manufacturing Company	28,864	Sept. 8	76	1571
Braids, tapes, or bindings for protecting the edges or seams of garments.	H. Feder	28,008	Mar. 24	74	1728
Bread containing beef. Compound of	La Société Anonyme "La Tilia"	28,319	May 26	75	1358
Bread. Soft	Smith, Collins & Co	29,380	Dec. 29	77	2134
Breakfast food, flour, cracked wheat, grits, farina, and purified middlings.	North Dakota Milling Company	28,482	June 30	75	2189
Brick. Street-paving	Wassall Fire Clay Company	28,249	May 12	75	992
Brushes	Ames Bonner Company	27,824	Feb. 18	74	961
Brushes and the like. Horse, dust, and scrubbing.	Palmetto Fibre Company	28,670	July 28	76	605
Brushes. Sol d-back	Ames Bonner Company	27,760	Feb. 11	74	803
Brushes. Tooth	Hamburger & Company	28,851	Sept. 1	76	1415
Brushes. Tooth	Hamburger & Company	28,852	Sept. 1	76	1415
Brushes. Tooth	Hamburger & Company	28,986	Oct. 13	77	310
Brushes. Tooth	Hamburger & Company	28,987	Oct. 13	77	310
Brushes. Tooth	Hamburger & Company	28,988	Oct. 13	77	310
Brushes. Tooth	Hamburger & Company	28,989	Oct. 13	77	310
Brushes. Tooth	Hamburger & Company	28,990	Oct. 13	77	310
Brushes. Tooth	Hamburger & Company	28,991	Oct. 13	77	310
Brushes. Tooth	Hamburger & Company	29,301	Dec. 15	77	1778
Brushes. Tooth	Hamburger & Company	29,302	Dec. 15	77	1778
Brushes. Tooth	Hamburger & Company	29,303	Dec. 15	77	1778
Brushes. Tooth	Hamburger & Company	29,304	Dec. 15	77	1778
Brushes. Tooth, nail, hair, mustache, artists', clothes, and bath	R. v. Briesen	28,059	Mar. 31	74	1896
Bulbs. Flowering	R. & J. Farquhar & Co	28,468	June 30	75	2188
Burlaps and buckram	J. R. Collins	28,203	May 5	75	829
Burners in which petroleum-oil is used. Hydrocarbon	Dangler Stove and Manufacturing Company	28,109	Apr. 7	75	182
Butter	Bartram Bros	29,040	Oct. 27	77	627
Butter	Belle Springs Creamery Company	29,315	Dec. 15	77	1779
Butter	Kurzman Bros	29,384	Dec. 29	77	2134
Butter. Elgin creamery	S. J. Stevens & Co	29,161	Nov. 17	77	1120
Butter in packages	C. C. Hovey and L. R. Clark	27,991	Mar. 24	74	1726
Butter-powder	Roberts Brothers	29,160	Nov. 17	77	1120
Buttons and buttons manufactured from native shells. Pearl	Boepple Button Company	28,355	June 9	75	1701
Buttons and pins	Tillinghast & Albro	28,122	Apr. 14	75	342
Buttons, dominoes, counters, hair-brush frames, and mirror-frames made from a secret composition material.	C. P. B. Woodruff	28,264	May 19	75	1197
Buttons. Lever cuff	W. H. Wilmarth & Company	27,823	Feb. 18	74	961
Buttons, pins, and similar articles of ornamental jewelry	C. H. Allen & Co	27,920	Mar. 10	74	1437
Cachous for the breath	S. Bartlett	27,942	Mar. 10	74	1439
Cameras, boxes, plate-holders, and packing-cases	Schoenfelder & Koble	29,057	Oct. 27	77	629
Candies and ice-cream	Jacob Fussell Company	28,266	May 19	75	1197
Candies. Mixed	Frye Caramel Company	28,776	Aug. 18	76	1112
Candy	J. W. Dole	28,093	Apr. 7	75	180
Candy	J. W. Dole	28,775	Aug. 18	76	1112
Candy attached to the ends of sticks. Round or oblong pieces of	J. F. Birkmeyer & Sons	28,717	Aug. 4	76	753
Candy. Chewing	Chicago Candy Co	28,691	July 28	76	607
Candy. Molasses	W. W. Candy	29,271	Dec. 8	77	1592
Candle-holders	Artz & Sons	27,631	Jan. 14	74	286
Candles. Night	J. G. Hebart	27,822	Feb. 18	74	961
Cane-mills	L. M. Rumsey Manufacturing Company	28,230	May 5	75	832
Canned and preserved meats and meat products	Armour Packing Company	28,738	Aug. 11	76	953
Canned corn	Illinois Canning Co	29,163	Nov. 17	77	1120
Canned fish, including salmon	F. M. Warren	28,197	Apr. 28	75	672
Canned food	C. S. Alden and C. F. Nicholson	29,041	Oct. 27	77	627
Canned fresh beef	J. Baiz	27,698	Jan. 28	74	492
Canned fruit	J. H. Hunt	28,921	Sept. 29	76	2005
Canned fruit, beans, peas, tomatoes, corn, salmon, oysters, olives, pickles, and olive-oil.	Schnull & Co	28,196	Apr. 28	75	672
Canned fruit, fish, and vegetables	J. M. Chapman	28,195	Apr. 28	75	672
Canned fruits and vegetables	D. N. Benton	28,870	Sept. 8	76	1572
Canned fruits and vegetables	F. P. Hendley	27,697	Jan. 28	74	492
Canned fruits and vegetables	Jersey Packing Company	28,161	Apr. 21	75	505
Canned fruits, vegetables, fish, extracts, lye, cheese, baking-powder, olives, cigars, starch, dried fruits, vinegar, and bird-seed.	Reed, Walsh & Lange	28,485	June 30	75	2189
Canned fruits, vegetables, mackerel, and lobster, extracts, lye, cheese, baking-powder, olives, cigars, starch, dried fruits, vinegar, and bird-seed.	Reed, Walsh & Lange	28,448	June 23	75	2005
Canned goods, cured meats, foods, and relishes, toilet articles and preparations, soaps, and fruits. Certain named	F. Acker & Co	28,481	June 30	75	2189
Canned goods, foods and relishes, and fish. Certain named	F. Acker & Co	28,483	June 30	75	2189
Canned goods. Hermetically-sealed	Twitchell-Champion Company	28,163	Apr. 21	75	505

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Canned green peas	Albert Landreth Seed Company	27,781	Feb. 11	74	805
Canned hulled corn	Western New York Preserving and Manufacturing Company.	27,742	Feb. 4	74	650
Canned hulled corn	Western New York Preserving and Manufacturing Company.	28,561	July 7	76	160
Canned lobster	E. A. Holmberg	29,225	Dec. 1	77	1423
Canned lobster	Muntwyler & Dubler	28,160	Apr. 21	75	505
Canned meats, fish, vegetables, fruits, and condensed milk	W. B. Timms	29,316	Dec. 15	77	1779
Canned oysters, fruits, and vegetables	J. Ludington	28,239	May 12	75	991
Canned pineapple	J. S. Johnson Company	28,029	Mar. 31	74	1893
Canned salmon	J. M. Chapman	28,718	Aug. 4	76	783
Canned salmon	J. W. Cook	28,238	May 12	75	991
Canned tomatoes and tomato extract	Joseph Campbell Preserve Company.	28,162	Apr. 21	75	505
Capsules	J. W. Grant	28,139	Apr. 14	75	344
Capsules of sandalwood and other oils. Gelatin	Sharp & Dohme of Baltimore City	29,048	Oct. 27	77	628
Car buffers, platforms, and couplings, and parts thereof	Gould Coupler Company	27,724	Jan. 28	74	494
Car-wheels	P. H. Griffin Machine Works	28,111	Apr. 7	75	182
Carbonating liquids. Powder for	Church & Dwight Company	29,367	Dec. 29	77	2132
Carbonating powder	Church & Dwight Company	29,168	Nov. 17	77	1121
Cards. Playing	E. Conley	27,632	Jan. 14	74	266
Cards. Sunday-school	International Art Publishing Company.	29,189	Nov. 24	77	1267
Carpet-sweepers	Bissell Carpet Sweeper Company	28,616	July 14	76	332
Carpet-sweepers	Grand Rapids Sweeper Company	28,827	Aug. 25	76	1272
Carpet-sweepers	G. W. Perkins	28,854	Sept. 1	76	1416
Carpets, covers, and furniture stuffs	Gebrüder Schoeller	28,979	Oct. 13	77	309
Carpets of all kinds	J. Crossley & Sons	28,261	May 19	75	1197
Carriage-houses and the like. Cleansing or washing apparatus for	H. Nicholsburg	27,678	Jan. 21	74	375
Castings of metal	W. Wood	28,324	June 2	75	1543
Catamenial sacks	Oxford Manufacturing Co	28,155	Apr. 21	75	504
Catarrh cures	H. A. Kitchen	28,170	Apr. 21	75	505
Cement	S. Bass	28,967	Oct. 6	77	151
Cement	Hercules Cement Company	28,215	May 5	75	830
Cement for rubber goods, especially for bicycle-tires	J. E. McWilliam	29,137	Nov. 10	77	970
Cement. Imported	F. W. Douglas	28,598	July 14	76	331
Cement. Imported	C. Zunz	28,363	June 9	75	1702
Cement. Imported	C. Zunz	28,364	June 9	75	1702
Cement. Imported	C. Zunz	28,723	Aug. 4	76	784
Cement. Portland	Alsen'sche Portland Cement Fabrik.	28,543	July 7	76	150
Cement. Portland	J. Brand	28,676	July 28	76	605
Cereals	Muscatine Oat Meal Company	27,777	Feb. 11	74	804
Cereals. Ground or milled	Shelby Mill Company	29,278	Dec. 8	77	1593
Cereals. Prepared	Muscatine Oat Meal Company	28,101	Apr. 7	75	181
Cereals. Prepared	Muscatine Oat Meal Company	28,102	Apr. 7	75	181
Cheese	J. Bessard du Parc et Cie	29,098	Nov. 3	77	809
Cheese	Freeman, Ives & Co	28,271	May 19	75	1198
Cheese	Thistle Cheese Company	29,272	Dec. 8	77	1592
Chemical compounds. Certain named	V. Tompkins	28,022	Mar. 24	74	1729
Chemical preparation	Chemische Fabrik auf Actien, vormals E. Schering.	28,431	June 23	75	2004
Chemical preparation	McKesson & Robbins	29,357	Dec. 29	77	2131
Chemical preparation for removing scale from boilers and for neutralizing scale-producing substances in feed-water for same	H. Pfabe	28,045	Mar. 31	74	1895
Chemical substances and preparations which are coal derivatives	Gas Light and Coke Company	27,612	Jan. 7	74	140
Churns and butter-workers. Combined	Owatonna Manufacturing Company.	28,855	Sept. 1	76	1416
Cider-mills	P. P. Mast & Company and Superior Drill Company.	27,725	Jan. 28	74	494
Cigar-boxes	Thoroughgood & Co.	28,900	Sept. 29	76	2003
Cigarettes	Liggett & Myers Tobacco Company	27,751	Feb. 4	74	651
Cigarettes	F. Lopez	28,706	Aug. 4	76	783
Cigarettes	A. Rodriguez	28,834	Sept. 1	76	1414
Cigarettes	H. Wolkind	29,364	Dec. 29	77	2132
Cigarettes and smoking-tobacco	S. Schinas	28,033	Mar. 31	74	1894
Cigarettes and tobacco	J. D. Dewell & Co	27,923	Mar. 10	74	1437
Cigars	Heinemann Bros	28,833	Sept. 1	76	1414
Cigars	Hooven Mercantile Company	27,850	Feb. 25	74	1117
Cigars	Hooven Mercantile Company	28,473	June 30	75	2188
Cigars	M. Kreutz	28,901	Sept. 29	76	2003
Cigars	C. Lawrence & Co	27,749	Feb. 4	74	651
Cigars	J. J. Murphy	27,750	Feb. 4	74	651
Cigars	Sanchez & Haya Company	28,902	Sept. 29	76	2003
Cigars	E. Seidenberg, Stiefel & Company	28,588	July 14	76	331
Cigars	F. W. and A. A. Tucheit	28,694	July 28	76	607
Cigars	C. Upman	28,589	July 14	76	331
Cigars	E. Vallens & Co	28,394	June 16	75	1850
Cigars	G. W. Whitney	27,595	Jan. 7	74	138
Cigars	G. W. Whitney	27,690	Jan. 28	74	491
Cigars	Williams & Brenckle	28,623	July 21	76	470
Cigars, cigarettes, and smoking and chewing tobacco	Ludington Company	28,903	Sept. 29	76	2003
Cigars, cigarettes, and smoking and chewing tobacco	Y. Pendas & Alvarez	28,339	June 2	75	1545
Cigars, cigarettes, and smoking and chewing tobacco	S. Underdorfer	28,904	Sept. 29	76	2004
Cigars, cigarettes, cheroots and manufactured tobacco	L. Miller & Sons	29,101	Nov. 3	77	809
Cigars, cigarettes, cheroots and manufactured tobacco	L. Miller & Sons	29,102	Nov. 3	77	810
Clam extracts	Case Fear Canning and Sea Food Company.	27,645	Jan. 14	74	267
Clay building and paving material. Burnt	Raritan Hollow and Porous Brick Company.	28,597	July 14	76	331
Cleaning and polishing cloth	Chemical Specialty Company	27,951	Mar. 17	74	1584
Cleaning and polishing cloth	Chemical Specialty Company	27,952	Mar. 17	74	1584
Cleaning and polishing powders and soaps	Electro Silicon Company	29,233	Dec. 1	77	1424

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Cleaning and polishing preparations and wash-blue	F. A. Schulz and G. A. Philipp	28,021	Mar. 24	74	1729
Cleaning and renovating carpets and destroying moths.	E. Thompson	29,069	Nov. 3	77	806
Preparations for					
Cleaning, polishing, and feeding varnished wood and cleaning and polishing metals. Mixture for	Nitid Varnish Feeder Co.	27,613	Jan. 7	74	140
Clinical and office instruments and apparatus	H. Sanche	29,214	Nov. 24	77	1270
Clinical and office instruments and apparatus	H. Sanche	29,215	Nov. 24	77	1270
Clinical and office instruments and apparatus	H. Sanche	29,300	Dec. 15	77	1777
Clinical instruments and apparatus	H. Sanche	29,216	Nov. 24	77	1270
Clock-cases. Wooden	Seth Thomas Clock Company	29,218	Nov. 24	77	1270
Clock-movements.	F. Kroeber Clock Company	28,793	Aug. 18	76	1114
Clothes-wringers	American Wringer Company	27,605	Jan. 7	74	140
Clothes-wringers and the parts thereof.	American Wringer Company	28,948	Oct. 6	77	150
Clothes-wringers and the parts thereof.	American Wringer Company	28,949	Oct. 6	77	150
Clothing for men, youths, and boys. Ready-made	Cushing, Olmsted & Snow	27,800	Feb. 18	74	959
Clothing. Men's.	Grossman, Michaelsohn & Co.	28,617	July 21	76	470
Coating or varnishes. Composition	David B. Crockett Company	28,385	June 16	75	1849
Cocoa.	H. Maillard	29,143	Nov. 10	77	970
Cocoa. Prepared.	James Epps & Company	29,270	Dec. 8	77	1592
Cocoa prepared with oatmeal for a beverage.	Kasseler Hafer-Kakao-Fabrik, Hausen & Co.	27,937	Mar. 10	74	1439
Coffee	C. F. Blanke Tea and Coffee Company.	27,939	Mar. 10	74	1439
Coffee	Firm of W. D. & C. S. Edwards.	27,993	Mar. 24	74	1726
Coffee	Hulman & Co.	28,628	July 21	76	471
Coffee	G. J. Washburn.	27,596	Jan. 7	74	139
Coffee and tea	Cooper Cooper & Company	29,076	Nov. 3	77	807
Coffee and tea	Cooper Cooper & Company	29,077	Nov. 3	77	807
Coffee. Chicory	E. B. Müller & Co.	28,687	July 28	76	607
Coffee made of grain. Substitutes for	O. F. Woodward.	28,714	Aug. 4	76	783
Coffee. Prepared	Golden Latexative Coffee Co.	27,893	Mar. 3	74	1274
Coffee. Prepared	L. H. Parke & Co.	27,938	Mar. 10	74	1439
Coffee. Roasted	Beckham, McKnight & Co.	28,129	Apr. 14	75	343
Coffee. Roasted	Steinwender-Stoffregen Coffee Company.	28,103	Apr. 7	75	181
Coffee substitute	Potter & Wrightington	28,713	Aug. 4	76	783
Coffee substitute	A. Tschinkel Söhne.	28,270	May 19	75	1198
Cognac	Archambeaud Frères	28,219	May 5	75	830
Coin-receivers and coin controlled and operated machines and apparatus.	C. C. Clawson	28,004	Mar. 24	74	1728
Cold cure and remedy for diseases of the throat, lungs, and nasal organs.	J. A. Swan	29,328	Dec. 22	77	1934
Collars and cuffs	W. Barker	28,889	Sept. 29	76	2002
Collars and cuffs	Earl & Wilson.	28,890	Sept. 29	76	2002
Cologne and perfumery.	R. Hudnut	28,551	July 7	76	160
Cologne-water.	J. M. Farina	28,656	July 21	76	473
Coloring purposes. Preparation used in the laundry for	Maypole Soap Syndicate	29,284	Dec. 8	77	1593
Colors for confectioners	Oehme & Baier	29,002	Oct. 13	77	311
Colors in oil and dry colors	A. Rich & Co.	28,207	May 5	75	829
Colors in oil and dry colors	A. Rich & Co.	28,208	May 5	75	829
Colors in oil, dry colors, and liquid paints	A. Rich & Co.	28,335	June 2	75	1544
Commutator-bars.	Forest City Electric Company	28,183	Apr. 21	75	506
Compound for the cure of liver, kidney, and other complaints.	G. W. Halsted	29,012	Oct. 20	77	449
Vegetable					
Compounds for exterminating bugs, roaches, moths, insects, and germs.	E. A. Sacket	29,017	Oct. 20	77	449
Condiments containing Mexican chilli pepper	Mexican Chile Supply Company	29,081	Nov. 3	77	807
Confectionery	Wright & Moody	27,694	Jan. 28	74	491
Confectionery and candied popcorn	F. W. Rueckheim & Bro	28,016	Mar. 24	74	1729
Copper, bronze, aluminium, and other metals, and phonographs, type-setters, and type-writers.	Maguire & Baucus	28,368	June 9	75	1702
Cordials	Bendiner & Schlesinger	28,341	June 2	75	1545
Cords for windows and the like. Solid-braided	Silver Lake Company	29,090	Nov. 3	77	808
Corduroy velveteen dress-facings	Kursheedt Manufacturing Company	28,379	June 16	75	1848
Corn-curers	A. Prässl	28,940	Oct. 6	77	149
Corn grits, fine and coarse	Chicago Hominy and Milling Company.	28,194	Apr. 28	75	671
Corn-starch	G. S. Graves	28,017	Mar. 24	74	1729
Corset-clasps and dress-steels	A. Steinhardt & Bro	27,592	Jan. 7	74	138
Corsets.	Aurora Corset Company	28,073	Apr. 7	75	178
Corsets.	Aurora Corset Company	28,846	Sept. 1	76	1415
Corsets.	E. Schweinburg.	27,589	Jan. 7	74	138
Corsets.	E. Schweinburg.	27,590	Jan. 7	74	138
Corsets.	Weingarten Bros	29,123	Nov. 10	77	968
Corsets.	Weingarten Bros	29,124	Nov. 10	77	969
Corsets.	Weingarten Bros	29,125	Nov. 10	77	969
Corsets and corset materials.	D. Kops	27,799	Feb. 18	74	959
Corsets and similar underwear.	Warner Brothers Company	28,978	Oct. 13	77	309
Corsets and underwaists for ladies and children.	Bay State Corset Company	28,202	May 5	75	829
Corsets. Ladies'	J. Beckel & Co.	29,254	Dec. 8	77	1591
Corsets. Ladies'	Michigan Corset Company	27,591	Jan. 7	74	138
Cosmetics	W. M. Carr	28,167	Apr. 21	75	505
Cosmetics	A. Lathrop	27,763	Feb. 11	74	803
Cosmetics	F. L. Urben.	28,435	June 23	75	2004
Cosmetics and preparations for rendering the skin soft and smooth.	U. G. Beck	27,641	Jan. 14	74	287
Cosmetics, face-powders, lotions, soaps, paste, and like articles.	K. Palmer	28,391	June 16	75	1849
Cotton and linen goods, silks and woolsens.	J. Hirsch & Sons	28,895	Sept. 29	76	2002
Cotton. Darning.	Merrick Thread Company	27,884	Mar. 3	74	1273
Cotton drillings	Lawrence Manufacturing Company.	28,700	Aug. 4	76	782
Cotton fabrics	Naumkeag Steam Cotton Company	27,629	Jan. 28	74	491
Cotton flannels	Marshall Field & Co	28,581	July 14	76	331
Cotton goods	Marshall Field & Co	28,576	July 14	76	330

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Cotton goods, such as bedspreads, bedquilts, counterpanes, and other Jacquard-woven goods, except towelings.	Monadnock Mills	29,128	Nov. 10	77	960
Cotton linings used in dresses	Lord & Taylor	29,025	Oct. 20	77	450
Cotton piece goods	Amory Manufacturing Company	28,378	June 16	75	1848
Cotton sheetings and cotton shirtings	Lawrence Manufacturing Company	28,701	Aug. 4	76	781
Cotton sheetings and shirtings	Monohansett Manufacturing Company.	28,702	Aug. 4	76	782
Cotton yarns	J. P. Nawrath & Co.	28,980	Oct. 13	77	309
Cough drops in the form of tablets or lozenges	G. W. Smith & Son	28,841	Sept. 1	76	1414
Cough-drops.	C. E. Eberhardt	28,061	Mar. 31	74	1896
Cough drops, tablets, or lozenges.	G. W. Smith & Son	28,411	June 16	75	1851
Cough lozenge or drop.	R. D. Feidt	27,672	Jan. 21	74	375
Cough mixtures, blood purifiers, powders, liniments, pills, syrups, extracts, tonics, and bitters.	G. Barker & Co.	28,344	June 2	75	1545
Cough mixtures, blood-purifiers, powders, liniments, pills, syrups, extracts, tonics, and bitters.	Ellshunt Medicine Co.	28,992	Oct. 13	77	310
Cough-syrup	E. T. and C. D. Higgins	29,191	Nov. 24	77	1267
Court-plaster. Liquid antiseptic	George Frost Company	29,182	Nov. 17	77	1122
Crackers and biscuits	American Biscuit and Manufacturing Company.	28,737	Aug. 11	76	957
Crackers and biscuits	American Biscuit and Manufacturing Company.	28,778	Aug. 18	76	1112
Crackers. Oyster-	American Biscuit and Manufacturing Company.	29,379	Dec. 29	77	2134
Crackers, wafers, and malt extracts	Potter & Wrightington	29,140	Nov. 10	77	970
Cranberries	A. D. M. Cranberry Co.	29,085	Nov. 3	77	808
Crapes, nun's veiling, and black dress goods other than velvet.	A. Openhym	28,119	Apr. 14	75	342
Cream for the skin, toilet soap, perfumes, face-powders, and lotions.	C. H. Hance	28,247	May 12	75	992
Crucibles and plumbago	Morgan Crucible Company	27,825	Feb. 18	74	961
Culinary articles and tableware	Popes Island Manufacturing Corporation.	28,226	May 5	75	831
Cultivators, harrows, shovels, spades, hatchets, hammers, twist-drills, wrenches, and kindred articles.	Whitman & Barnes Manufacturing Company.	28,728	Aug. 4	76	784
Cultivators, shovels, thresher-teeth, mower knives and sections, axes, hatchets, hammers, twist-drills, wrenches, and kindred articles.	Whitman & Barnes Manufacturing Company.	28,729	Aug. 4	76	784
Cultivators, stalk-cutters, harrows, bean-harvesters, and corn-planters. Sulky-	Ohio Cultivator Company	29,243	Dec. 1	77	1426
Currants. Cleaned	Hooven Mercantile Company	27,776	Feb. 11	74	804
Cutlery and edge-tools.	Miller, Sloss & Scott	29,059	Oct. 27	77	630
Cutlery and edged tools. Certain named	C. Ibbotson	28,251	May 12	75	992
Cutlery and edged tools. Certain named	C. Ibbotson	28,252	May 12	75	992
Cutlery, including clippers, razor-strops, and lather-brushes.	Hibbard, Spencer, Bartlett & Company.	27,791	Feb. 11	74	805
Cutlery, table, bread, and butcher knives. Table-	American Cutlery Company	28,369	June 9	75	1702
Cycle parts and accessories	Anglo-American Cycle Fittings Company.	29,609	July 14	76	332
Cycles.	Boite Cycle Manufacturing Company.	29,289	Dec. 8	77	1594
Cycles and accessories therefor	John Griffiths Cycle Corporation	28,831	Aug. 25	76	1272
Cycles, velocipedes, bicycles, and tricycles.	J. Aucoc et Darraq	29,153	Nov. 10	77	972
Cyclometers.	Chronodometer Co.	27,835	Feb. 18	74	962
Dairy products. Certain named	T. W. Brady & Co.	27,741	Feb. 4	74	650
Dates and preparations and extracts of dates, including vinegar made therefrom.	Victoria Date Company	29,080	Nov. 3	77	807
Dental chairs, amalgams, alloys, and teeth-filling materials	Consolidated Dental Manufacturing Company.	28,882	Sept. 15	76	1710
Dentifrices, tooth-brushes, and packages of same.	J. P. Hendrick, Jr.	27,731	Feb. 4	74	649
Diamond gems. Artificial.	W. R. Duple	28,874	Sept. 8	76	1572
Dietetic compound in liquid or a powder	F. W. R. Eschmann	28,343	June 2	75	1545
Disinfectant and antiseptic	E. S. Fitch	28,500	June 30	75	2191
Disinfectant, deodorizer, and bleaching liquid	Electrozone Company	28,189	Apr. 28	75	671
Disinfectant. Incense to be burned as a	G. Miyamoto	27,984	Mar. 17	74	1586
Dolls. Kid-body bisque-head	Firm of J. D. Kestner, Jr.	29,129	Nov. 11	77	969
Dress-shields	Canfield Rubber Company	27,846	Feb. 25	74	1117
Dress-shields	I. B. Kleinert Rubber Company	28,074	Apr. 7	75	178
Dried apples	Herndon-Carter Company	28,920	Sept. 29	76	2005
Dried apples	Herndon-Carter Company	28,929	Oct. 3	77	148
Drinks. Compounds for making non-alcoholic.	J. S. Greasley	28,934	Oct. 6	77	149
Drinks. Mixed	G. F. Heublein & Bro.	28,441	June 23	75	2005
Dry goods. Certain named	Marshall Field & Co.	28,577	July 14	76	330
Dry goods. Certain named	Marshall Field & Co.	28,579	July 14	76	330
Dry goods. Certain named	Marshall Field & Co.	28,580	July 14	76	330
Drying-kilns	Emerson Company	28,202	May 19	75	1200
Drying-kilns	Standard Dry Kiln Company	28,859	Sept. 1	76	1416
Dust-laying preparation.	S. Coleman	28,938	Oct. 6	77	149
Dyes	Maypole Soap Syndicate	29,283	Dec. 8	77	1593
Dyes. Household.	H. Krumhaar	28,544	July 7	76	159
Dyes. Household.	H. Krumhaar	28,545	July 7	76	159
Dyestuffs.	Badische Anilin and Soda Fabrik	27,943	Mar. 10	74	1439
Dyestuffs.	Badische Anilin and Soda Fabrik	27,944	Mar. 10	74	1439
Dyestuffs.	Badische Anilin and Soda Fabrik	27,945	Mar. 10	74	1439
Dyestuffs.	Farbenfabriken, vormals Fr. Bayer & Co.	28,432	June 23	75	2004
Dyestuffs.	Farbenfabriken, vormals Fr. Bayer & Co.	29,323	Dec. 15	77	1780
Ear-trumpets	J. W. Patterson	28,794	Aug. 18	76	1114
Edge-tools.	Arkel & Douglas	28,148	Apr. 14	75	345
Edge-tools. Certain	Collins Company	29,398	Dec. 29	77	2136
Egg-beaters	R. Bryce	27,789	Feb. 11	74	805
Eggs. Substitute for	French Manufacturing Co.	29,039	Oct. 27	77	627
Elastic fabrics.	Hub Gore Makers	28,526	July 7	76	157
Elastic fabrics.	Hub Gore Makers	28,894	Sept. 29	76	2002

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Elastic fabrics and boots and shoes.....	Hub Gore Makers.....	28,527	July 7	76	157
Elastic fabrics and boots and shoes.....	Hub Gore Makers.....	28,528	July 7	76	157
Elastic fabrics known as goring.....	Glendale Elastic Fabrics Company..	27,637	Jan. 14	74	266
Electric accumulators and receptacles containing same.....	G. R. Blot.....	28,298	May 26	75	1356
Electric batteries.....	Stanley & Patterson.....	27,912	Mar. 3	74	1275
Electrical apparatus. Certain named.....	Chemisch-Elektrische Fabrik "Prometheus" Gesellschaft mit Beschränkter Haftung.	29,150	Nov. 10	77	971
Electrical appliances. Certain designated.....	Hart & Hageman Manufacturing Company.	29,217	Nov. 24	77	1270
Electrical conductors. High-resistance.....	W. T. Glover & Co.....	29,110	Nov. 3	77	810
Embalming fluids.....	Embalmers Supply Company.....	29,130	Nov. 10	77	969
Embrocation.....	Elliman Sons & Co.....	29,094	Nov. 3	77	809
Embroidery and embroidery-yarn. Bulgarian.....	F. Schulemann.....	27,932	Mar. 10	74	1439
Emery and corundum wheels.....	Electric Emery Wheel Company.....	28,973	Oct. 6	77	152
Emollient jelly for external application.....	G. W. Flynn.....	27,670	Jan. 21	74	375
Enamel and house paints, varnishes, and japans.....	McLennan-French Paint Company..	28,600	July 14	76	332
Engines for use in threshing, sawing, stone-crushing, road-making, &c.....	Aultman Company.....	27,834	Feb. 18	74	962
Engines. Internal-combustion.....	Otto Gas Engine Works.....	27,914	Mar. 3	74	1275
Engines, machinery or its parts, boats, and goods pertaining to marine and general engineering.....	Liquid Fuel Engineering Company..	29,187	Nov. 17	77	1122
Ethyl nitrite. Preparation of.....	F. W. Fletcher.....	27,616	Jan. 7	74	141
Exercising devices and appliances.....	A. G. Spalding & Bros.....	29,113	Nov. 3	77	810
Extracts, waters, lotions, colognes, powders, oils, creams, soaps, and the like.....	R. Hudnut.....	28,497	June 30	75	2190
Eyelets for fastening papers, &c.....	C. J. Cohen.....	28,659	July 21	76	473
Eyelets for fastening papers, &c.....	C. J. Cohen.....	28,660	July 21	76	473
Eyelets for fastening papers, &c.....	C. J. Cohen.....	28,661	July 21	76	474
Fabrics, yarns, underwear, and knit goods, including hosiery.....	Commonwealth Cotton Manufacturing Company.	28,703	Aug. 4	76	782
Fabrics, yarns, underwear, and knit goods, including hosiery.....	Commonwealth Cotton Manufacturing Company.	28,704	Aug. 4	76	782
Fancy goods and notions. Certain named.....	Marshall Field & Co.....	28,578	July 14	76	330
Fans. Electric rotary.....	J. Goldmark and W. J. Wallace.....	28,947	Oct. 6	77	150
Farm implements.....	T. Cascaden, Jr.....	28,614	July 14	76	332
Farm implements.....	Hibbard, Spencer, Bartlett & Company.	27,795	Feb. 11	74	806
Feed. Horse and cattle.....	G. F. and J. W. Geist.....	28,624	July 21	76	470
Fertilizer for house-plants.....	A. W. Perkins & Co.....	28,969	Oct. 6	77	151
Fertilizers. Earth.....	A. N. Sheppey.....	27,615	Jan. 7	74	141
Fertilizing compositions or compounds.....	R. W. L. Rasin.....	28,367	June 9	75	1702
Fiber interlining.....	Adams, Jewett & Co.....	28,331	June 2	75	1544
Files, twist-drills, and other small tools for mechanical uses.....	Kearney & Foot Company.....	28,629	Aug. 25	76	1272
Filters.....	T. Linke.....	27,604	Jan. 7	74	140
Filters.....	United States Universal Filter Co..	28,883	Sept. 15	76	1710
Firearms and ammunition.....	Wiebusch & Hilger.....	27,755	Feb. 4	74	651
Firearms and sporting goods.....	Hibbard, Spencer, Bartlett & Company.	27,793	Feb. 11	74	805
Fish and fish products. Pickled herrings and other fresh and preserved.....	A. & J. Q. Corner.....	28,123	Apr. 14	75	342
Fish, meats, and lard. Cured.....	Louch, Augustine & Co.....	28,159	Apr. 21	75	504
Fish. Preserved.....	I. B. Miller.....	28,222	May 5	75	831
Fish. Salted and boneless.....	J. W. Beardsley's Sons.....	28,690	July 28	76	607
Fish. Salted and boneless.....	J. W. Beardsley's Sons.....	29,087	Nov. 3	77	808
Fish. Salted and boneless.....	J. W. Beardsley's Sons.....	29,224	Dec. 1	77	1423
Flannels made wholly or in part of peat fiber.....	Brion & Paté.....	29,248	Dec. 8	77	1590
Flannels made wholly or in part of peat fiber.....	Brion & Paté.....	29,249	Dec. 8	77	1590
Flannels. Unshrinkable.....	William Hollins & Company.....	27,847	Feb. 25	74	1117
Flavoring extracts.....	S. Schmidt.....	28,692	July 28	76	607
Flour.....	Estate of H. Beard.....	27,818	Feb. 18	74	960
Flour.....	J. B. Camors & Co.....	28,236	May 12	75	991
Flour.....	J. B. Camors & Co.....	28,594	July 14	76	331
Flour.....	H. A. Huefner.....	28,780	Aug. 18	76	1112
Flour.....	Pillsbury-Washburn Flour Mills Company.	29,096	Nov. 3	77	809
Flour.....	Pillsbury-Washburn Flour Mills Company.	29,097	Nov. 3	77	809
Flour.....	H. B. Smith.....	28,097	Apr. 7	75	180
Flour.....	H. B. Smith.....	28,098	Apr. 7	75	180
Flour.....	Spanogle & Yeager.....	28,449	June 23	75	2005
Flour.....	Spanogle & Yeager.....	28,562	July 7	76	161
Flour and corn-starch. Corn.....	Duryea & Co.....	28,125	Apr. 14	75	343
Flour and meal.....	Lexington Roller Mills Company..	28,563	July 7	76	161
Flour, coffee, potato-flour, starch, soaps, syrups, saleratus, and cigars. Wheat.....	Gronseth & Olsen.....	29,280	Dec. 8	77	1593
Flour. Patent wheat.....	W. H. Stokes.....	29,084	Nov. 3	77	808
Flour. Patent wheat.....	W. H. Stokes.....	29,381	Dec. 29	77	2134
Flour. Patent wheat.....	W. H. Stokes.....	29,382	Dec. 29	77	2134
Flour, rolled wheat, and cornmeal. Pancake.....	H. R. Heath Sons.....	27,611	Jan. 7	74	140
Flour. Wheat.....	Bulsing & Heslenfeld.....	28,124	Apr. 14	75	342
Flour. Wheat.....	Christensen & Henderson.....	28,595	July 14	76	331
Flour. Wheat.....	Christensen & Henderson.....	28,779	Aug. 18	76	1112
Flour. Wheat.....	W. A. Coombs.....	27,699	Jan. 28	74	492
Flour. Wheat.....	H. N. Fuller.....	28,237	May 12	75	991
Flour. Wheat.....	H. M. Haas.....	27,868	Feb. 25	74	1119
Flour. Wheat.....	Hicks Brown Milling Company.....	27,778	Feb. 11	74	804
Flour. Wheat.....	Hicks Brown Milling Company.....	28,396	June 16	75	1850
Flour. Wheat.....	Higginsville Milling Company.....	27,820	Feb. 18	74	961
Flour. Wheat.....	Hook Bros. & Aston.....	29,227	Dec. 1	77	1423
Flour. Wheat.....	John Bird Company.....	28,397	June 16	75	1850
Flour. Wheat.....	John Bird Company.....	28,398	June 16	75	1850
Flour. Wheat.....	John Bird Company.....	28,399	June 16	75	1850
Flour. Wheat.....	J. B. Kirby.....	29,279	Dec. 8	77	1593

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Flour. Wheat.....	Firm of A. Kufeke.....	27,819	Feb. 18	74	960
Flour. Wheat.....	J. F. Meyer & Sons.....	28,845	Sept. 1	76	1415
Flour. Wheat.....	Novelty Mill Company.....	27,743	Feb. 4	74	650
Flour. Wheat.....	Pearl Roller Mill Company.....	29,147	Nov. 10	77	971
Flour. Wheat.....	Pillsbury-Washburn Flour Mills Company.....	29,082	Nov. 3	77	807
Flour. Wheat.....	Pillsbury-Washburn Flour Mills Company.....	29,083	Nov. 3	77	807
Flour. Wheat.....	H. N. Schooley & Son.....	28,100	Apr. 7	75	181
Flour. Wheat.....	H. B. Smith.....	27,667	Jan. 21	74	374
Flour. Wheat.....	B. Stern & Sons.....	28,099	Apr. 7	75	180
Flour. Wheat.....	B. Stern & Sons.....	28,689	July 28	76	607
Flour. Wheat.....	Washburn-Crosby Company.....	28,450	June 23	75	2005
Flour. Wheat.....	Washburn-Crosby Company.....	28,479	June 30	75	2189
Flour. Wheat and self-raising.....	Russell & Birkett.....	28,031	Mar. 31	74	1893
Fluids and powders for treating the skin and coloring the hair.....	Marie Antoinette Company.....	28,498	June 30	75	2191
Fly and insect catchers.....	Nostrand, Mead & Co.....	28,328	June 2	75	1543
Food and feed preparation. Farinaceous.....	Robinson-Danforth Commission Company.....	27,666	Jan. 21	74	374
Food. Certain named fat-producing.....	A. Loring.....	29,311	Dec. 15	77	1778
Food for infants and invalids.....	S. F. Speir.....	27,598	Jan. 7	74	139
Food products. Farinaceous.....	H-O (Hornby's Oatmeal) Company.....	29,228	Dec. 1	77	1424
Food-stuffs, including chocolate, cocoa, food-paste, and bread and biscuits containing sterilized raw-meat powder.....	La Soci��t�� Anonyme "La Tilia".....	28,311	May 26	75	1357
Food substances. Oleaginous.....	Swift & Company.....	28,781	Aug. 18	76	1112
Foods and beverages. Certain.....	J. F. Humphreys & Company.....	27,644	Jan. 14	74	267
Foods. Farinaceous dietetic.....	Merrell-Soule Company.....	28,273	May 19	75	1198
Foods. Liquid decoctions or essences of beef, mutton, chicken, and like.....	Mason Heublein Co.....	28,842	Sept. 1	76	1415
Footwear for bicycle-riders.....	C. H. Fargo & Company.....	28,009	Mar. 24	74	1728
Fruit, especially raisins. Dried.....	J. M. Chapman.....	28,221	May 5	75	831
Fruits and vegetables. Prepared.....	H. J. Heinz Co.....	27,936	Mar. 10	74	1438
Fruits. Dried.....	L. Schr��ter & Co.....	29,386	Dec. 29	77	2135
Fruits. Preserved.....	G. Ronca.....	28,869	Sept. 8	76	1571
Fuel. Artificial.....	A. G. Jennings.....	27,614	Jan. 7	74	140
Furniture.....	C. F. Manahan.....	28,871	Sept. 8	76	1572
Garment-clasps.....	I. B. Kleiwert Rubber Company.....	29,247	Dec. 8	77	1590
Garment-fastening eyes.....	Peet Manufacturing Company.....	27,989	Mar. 24	74	1726
Garment-supporters.....	C. D. Shain.....	28,585	July 14	76	330
Garments. Ready-made.....	M. B. Brummer.....	29,126	Nov. 10	77	969
Gas-burners.....	Estate of T. Clough.....	28,755	Aug. 11	76	959
Gas-burners.....	Estate of Theodore Clough.....	28,971	Oct. 6	77	152
Gas-heater.....	Blount & Otto.....	27,876	Feb. 25	74	1119
Gas. Illuminating.....	G. Tomkins.....	27,622	Jan. 7	74	141
Gas-light appliances.....	Welsbach Light Company.....	28,455	June 23	75	2006
Gelatin.....	Michigan Carbon Works.....	27,953	Mar. 17	74	1584
Gin.....	F. Dempsey & Co.....	28,930	July 7	76	161
Gin and other spirits.....	E. Vaughan-Jones.....	28,389	Oct. 6	77	148
Gin, rum, and whisky.....	C. M. Roof.....	29,395	Dec. 29	77	2133
Glass. Sheet.....	Chambers Glass Company.....	28,537	Dec. 29	77	2135
Glass. Window.....	Maring, Hart & Co.....	28,535	July 7	76	158
Glassware.....	E. de la Chapelle & Company.....	28,536	July 7	76	158
Glassware. Cut or etched.....	E. de la Chapelle & Company.....	28,180	Apr. 21	75	506
Gloves.....	Libbey Glass Company.....	27,609	Jan. 7	74	140
Gloves.....	F. Schmidt.....	27,934	Mar. 10	74	1438
Gloves and hosiery.....	Wertheimer & Co.....	29,297	Dec. 15	77	1777
Gloves and mittens.....	Firm of M. S. Esche.....	28,121	Apr. 14	75	342
Gloves and mittens. Workingmen's.....	D. B. Gunn.....	29,190	Nov. 24	77	1267
Gloves for women and children. Wool, silk, and cotton.....	F. H. Hunicke.....	27,588	Jan. 7	74	138
Gloves, garments, &c. Fasteners for.....	Lord & Taylor.....	27,988	Mar. 24	74	1726
Gloves. Kid.....	Ball and Socket Fastener Company.....	27,933	Mar. 10	74	1438
Gloves. Kid.....	Hilton, Hughes & Co.....	28,407	June 16	75	1851
Gloves. Kid, lambskin, and other leather or skin.....	Perrin Fr��res & Cie.....	28,421	June 23	75	2003
Glucose and grape-sugar.....	Rockford Sugar Refining Company.....	28,963	Oct. 6	77	151
Gold-foils. Crystal mat.....	E. de Trey.....	28,540	July 7	76	158
Gold, sterling-silver, and plated jewelry and silverware.....	Foster & Bailey.....	28,069	Apr. 7	75	178
Gold, sterling-silver, and plated jewelry and silverware.....	Foster & Bailey.....	28,070	Apr. 7	75	178
Grape-vines, fresh, canned, and preserved grapes, and wine.....	J. R. Johnson.....	28,708	Aug. 4	76	783
Graphite and its products.....	United States Graphite Company.....	29,138	Nov. 10	77	970
Grease, oils, and other lubricants.....	Diamond Compound Co.....	28,768	Aug. 18	76	1111
Grindstone. Natural.....	Edgemont Stone Company.....	27,907	Mar. 3	74	1275
Groceries. Certain named articles designated.....	W. Edwards & Co.....	29,201	Nov. 24	77	1268
Grocers' goods. Certain named.....	P. H. Kelly Mercantile Company.....	27,954	Mar. 17	74	1584
Grocers' supplies. Certain named.....	F. Acker & Co.....	28,559	July 7	76	160
Grocers' supplies. Certain named.....	F. Acker & Co.....	28,560	July 7	76	160
Guano.....	R. W. L. Rasin.....	29,108	Nov. 3	77	810
Guano, phosphate, manure, and similar compounds.....	R. W. L. Rasin.....	28,366	June 9	75	1702
Guano, phosphate, or other fertilizing compositions.....	R. W. L. Rasin.....	28,287	May 19	75	1199
Guano, phosphates, manures, and superphosphates.....	R. W. L. Rasin.....	29,109	Nov. 3	77	810
Guano, phosphates, superphosphates, and similar compounds.....	P. P. Dunan.....	28,365	June 9	75	1702
Guano. Soluble sea-island.....	R. W. L. Rasin.....	28,602	July 14	76	332
Guano, superphosphates, and fertilizing compositions.....	R. W. L. Rasin.....	28,603	July 14	76	332
Gum and breath-perfumes. Chewing.....	Honey Dew Gum Company.....	29,103	Nov. 3	77	810
Gum and solidified mucilage. Adhesive tablet.....	H. G. Smiley.....	27,761	Feb. 11	74	803
Gum. Chewing.....	American Chemical Company.....	28,885	Sept. 22	76	1850
Gum. Chewing.....	Faultless Chemical Company.....	28,621	July 21	76	470
Gum. Chewing.....	E. C. Fletcher.....	28,447	June 23	75	2005
Gum. Chewing.....	Forest City Chemical Gum Co.....	29,045	Oct. 27	77	628
Gum. Chewing.....	Grove Company.....	29,322	Dec. 15	77	1780
Gum. Chewing.....	H. E. Hickox.....	28,091	Apr. 7	75	180
Gum. Chewing.....	D. Norris.....	28,590	July 14	76	331
Gum. Chewing.....	Peerless Manufacturing Co.....	28,393	June 16	75	1850
Gum. Chewing.....	J. P. Primley.....	27,695	Jan. 28	74	492
Gum. Chewing.....	Rubber Paint Company.....	28,412	June 16	75	1852

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Guns and shotgun-shells. Shot.....	Austin Cartridge Company	29,391	Dec. 29	77	2135
Guns. Shot.....	Winchester Repeating Arms Com- pany.....	29,156	Nov. 10	77	972
Hair-pins.....	Richardson & De Long Bros	27,972	Mar. 17	74	1586
Hair-pins.....	Richardson & De Long Bros	27,973	Mar. 17	74	1586
Hair-pins.....	Richardson & De Long Bros	28,072	Apr. 7	75	178
Hair preserver and restorer.....	Miller & Johnson	28,062	Mar. 31	74	1896
Hair-tonic, shampoo, face-powder, and a preparation for the skin.....	Johnson Bros	28,087	Apr. 7	75	179
Hair washes and tonics.....	M. Barker and A. J. Kelly.....	28,434	June 23	75	2004
Hams.....	Fowler Bros	27,597	Jan. 7	74	139
Hams.....	Fowler Bros	27,649	Jan. 14	74	267
Hams, bacon, pressed meats, sausage, cooked meats, shoul- ders, shortenings, and other provisions.....	Swift & Company	28,452	June 23	75	2006
Hams, shoulders, and breakfast-bacon.....	P. T. George & Co.....	28,695	July 28	76	608
Hams, shoulders, sides, bacon, and lard.....	P. T. George & Co.....	28,696	July 28	76	608
Handkerchiefs.....	Boesé, Peppard & Co	22,187	Apr. 28	75	671
Handles for axes and similar tools.....	H. W. Russell	28,147	Apr. 14	75	345
Hardware and shelf-hardware. Articles of.....	Hibbard, Spencer, Bartlett & Com- pany.....	27,792	Feb. 11	74	805
Harmonicas. Mouth.....	M. Hohner	28,228	May 5	75	831
Harrows. Disk.....	Moline Plow Company	28,727	Aug. 4	76	784
Harrows, revolving plows, cultivators, and seeders.....	Cutaway Harrow Company	28,461	June 23	75	2006
Harvesters, mowers, and separate parts thereof. Self-bind- ing.....	Milwaukee Harvester Company	28,726	Aug. 4	76	784
Hat and caps.....	Gordon & Ferguson.....	28,432	June 23	75	2003
Hats and caps. Men's, boys', and women's.....	Dunlap & Company.....	29,342	Dec. 29	77	2131
Hats and other head-coverings, neckwear, and men's shirts and other men's wearing-apparel.....	J. Auerbach	28,862	Sept. 8	76	1571
Hats. Boys' and men's fur.....	Beltaire, Lurch & Co.....	29,061	Nov. 3	77	806
Hats, caps, and bonnets.....	W. Barnard	28,888	Sept. 29	76	2002
Hats for men and boys.....	H. H. Roelofs & Co	28,760	Aug. 18	76	1111
Hats, soft and stiff. Men's and boys' fur-felt.....	F. Schoble & Co	28,525	July 7	76	157
Headache, neuralgia, catarrh, hay-fever, asthma, colds, sore throat, gripe, and other affections of the air-passages.....	Cushman Drug Co	28,088	Apr. 7	75	179
Heaters. Steam and hot-water.....	A. A. Griffing Iron Company.....	28,294	May 19	75	1200
Heaters. Steam and hot-water house.....	Smith & Thayer Company	28,200	Apr. 28	75	672
Heaters. Steam and water.....	A. A. Griffing Iron Company.....	28,283	May 19	75	1199
Heaters. Steam and water.....	A. A. Griffing Iron Company.....	28,293	May 19	75	1200
Heating and cooking apparatus.....	F. & L. Kahn & Bros	27,832	Feb. 18	74	962
Heating or drying apparatus.....	Paul Steam System Company	27,928	Mar. 10	74	1438
Heating supplies, including radiators, pipe-fittings, tubing, and similar goods. Hot-water and steam.....	Sumner & Goodwin	27,915	Mar. 3	74	1276
Hinges.....	Tyler Hinged Last Co	27,684	Jan. 21	74	376
Hog products, provisions, extracts, and compounds manufac- tured from hogs, cattle, and sheep. Certain named.....	Cudahy Packing Company	28,558	July 7	76	160
Hominy.....	N. K. Smith	27,821	Feb. 18	74	961
Hominy or maize. Prepared.....	Erie Preserving Company	28,158	Apr. 21	75	504
Honey. Strained.....	Deming & Gould Company	28,716	Aug. 4	76	783
Hooks and eyes.....	A. E. Hewitt	29,065	Nov. 3	77	806
Hooks and eyes.....	Singer Safety Hook and Eye Com- pany.....	27,593	Jan. 7	74	138
Hooks and eyes.....	Singer Safety Hook and Eye Com- pany.....	27,594	Jan. 7	74	138
Horse-blankets.....	W. B. Riley & Co.....	28,954	Oct. 6	77	150
Horse-blankets and lap and carriage robes.....	W. B. Riley & Co.....	28,118	Apr. 14	75	342
Horse-clothing and lap and carriage robes.....	W. B. Riley & Co.....	28,693	Sept. 29	76	2002
Horseshoe-calks.....	Blodgett & Clapp Company	28,290	May 19	75	1199
Horseshoes.....	F. W. Hahn	28,404	June 16	75	1851
Horseshoes.....	Shoenberger Steel Company	27,606	Jan. 7	74	140
Hose, cotton rubber-lined, linen, and cotton hose. Hydraulic.....	Bowers Rubber Company	28,078	Apr. 7	75	178
Hose. Hydraulic.....	L. M. Rumsey Manufacturing Com- pany.....	28,418	June 23	75	2003
Hose. Hydraulic.....	B. L. Stowe	28,419	June 23	75	2003
Hose or stockings.....	Brown Bros. & Aberle Company	27,661	Jan. 21	74	374
Hosiery.....	Shaw Stocking Company	29,157	Nov. 17	77	1120
Hosiery and gloves.....	Firm of M. S. Esche.....	29,327	Dec. 22	77	1934
Hosiery and similar knit goods.....	Ely & Walker Dry Goods Company	27,662	Jan. 21	74	374
Hot-water apparatus.....	Henry Huber Company	27,948	Mar. 10	74	1440
Ice-cream freezers, milk-cans, and other household articles	Hibbard, Spencer, Bartlett & Com- pany.....	27,790	Feb. 11	74	805
Incubators and brooders.....	G. H. Stahl	27,836	Feb. 18	74	962
Ink for marking linen. Indelible.....	American News Company	27,762	Feb. 11	74	803
Ink. Lithographic.....	Fuchs & Lang Manufacturing Com- pany.....	28,026	Mar. 31	74	1893
Inks. Lithographic.....	C. Stickel	28,472	June 30	75	2188
Insecticides.....	Tube City Chemical Co	28,165	Apr. 21	75	505
Insecticides. Oily substances belonging to the class of.....	Bowker Fertilizer Company	27,999	Mar. 24	74	1727
Insects. Chemical substance for protection against mosqui- tos and other.....	J. Keepmaker.....	28,549	July 7	76	159
Insects, vermin, and the like. Compounds for exterminating.....	R. W. Walmsley	28,918	Sept. 29	76	2005
Insulating compound.....	L. Honig	28,917	Sept. 29	76	2005
Iron. Pig.....	Henry H. Adams & Company	27,909	Mar. 3	74	1275
Italian cloths, serges, silks, velvets, bindings, braids, and linings.....	Leshner, Whitman & Co	29,127	Nov. 10	77	969
Jars and bottles.....	H. C. Dilworth	28,735	Aug. 11	76	957
Jeans or doekskins and chevriots.....	Evansville Woolen Mill Company	28,420	June 23	75	2003
Jewelry and silverware.....	Stone Sterling Silver Co	28,350	June 9	75	1701
Jewelry, flat and hollow silverware, watch-movements, and solid gold and silver and filled watchcases. Gold and silver Jewelry made from precious and other metals and tortoise- shell goods.....	M. Eisenstadt Jewelry Company	28,469	June 30	75	2188
Kerosene, resin, fire-crackers, axle-grease, lubricants, lard, oysters, lobsters, and timber.....	Krementz & Co	28,898	Sept. 29	76	2003
Kerseys and cassimeres.....	Gandolfi Moss & Co	27,970	Mar. 17	74	1585
	W. J. Dickey & Sons	28,333	June 2	75	1544

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Title.	Name.	No.	Date.	Official Gazette.	
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Kid. Glazed.	G. H. McNeely & Co.	28,734	Aug. 11	76	957
Knitted underwear.	Root Manufacturing Company.	28,233	May 12	75	991
Knives. Pocket and other.	A. Baldwin & Company.	28,181	Apr. 21	75	506
Kola and malt for foods and beverages.	Thomson & Taylor Spice Company.	29,141	Nov. 10	77	971
Lactate of silver, citrate of silver, and all pharmaceutical preparations of silver.	Chemische Fabrik von Heyden, Gesellschaft, mit Beschränkter Haftung.	29,133	Nov. 10	77	969
Lamp-burners.	J. Gregory.	28,521	June 30	75	2192
Lamp-burners.	Seavill Manufacturing Company.	28,884	Sept. 15	76	1710
Lamp-chimneys.	Ditheridge & Co.	28,414	June 16	75	1852
Lamp-chimneys.	Thomas Evans Company.	29,060	Oct. 27	77	630
Lamps and lanterns. Chimneys for.	R. Marsh.	27,890	Mar. 3	74	1273
Lamps and their parts, burners, globes, chimneys, wicks, and incandescent mantles. Certain named.	Continental-Gas-Glühlicht-Actien-Gesellschaft "Meteor," vormals Kroll, Berger & Co.	28,198	Apr. 28	75	672
Lamps. Bicycle.	Adams & Westlake Company.	28,371	June 9	75	1702
Lamps. Bicycle.	H. B. Clarke.	28,672	July 28	76	605
Lamps. Bicycle.	Hitchcock Lamp Company.	27,627	Jan. 7	74	142
Lamps. Carbon rods for electric-arc.	F. Hardtmuth & Co.	27,796	Feb. 11	74	806
Lamps. Carbons for electric-arc.	Schiff, Jordan & Co.	27,911	Mar. 3	74	1275
Lamps. Electric.	New York & Ohio Company.	27,715	Jan. 28	74	493
Lamps, fixtures, and devices. Electric.	Electric Arc Light Company.	28,289	May 19	75	1190
Lamps. Fixtures for incandescent gas.	L. Hartman.	29,152	Nov. 10	77	971
Lamps. Gas-fixtures for incandescent gas.	L. Hartman.	29,151	Nov. 10	77	971
Lamps, holders, switches, and appliances generally for electric illumination. Electric.	Edison & Swan United Electric Light Company.	28,571	July 7	76	161
Lamps, holders, switches, and appliances generally for electric illumination.	Edison & Swan United Electric Light Company.	28,402	June 16	75	1851
Lamps. Incandescent electric.	C. G. Perkins.	28,370	June 9	75	1702
Lamps, lamp or gas globes, chimneys, shades, reflectors, and stands.	Phenix Glass Company.	28,972	Oct. 6	77	152
Lap-robies.	Rippowam Woolen Manufacturing Company.	28,587	July 14	76	331
Lard. Leaf.	Parker, Webb & Company.	28,736	Aug. 11	76	957
Lard. Leaf.	Parker, Webb & Company.	28,880	Sept. 15	76	1710
Laxative preparation.	Ypsilanti Drug Co.	28,135	Apr. 14	75	344
Laxative tablets.	F. Gruman.	27,856	Feb. 25	74	1118
Lead, zinc, and ready-mixed paint.	A. Rich & Co.	28,210	May 5	75	830
Leads.	A. Rich & Co.	28,211	May 5	75	830
Leads.	A. Rich & Co.	28,212	May 5	75	830
Leads.	A. Rich & Co.	28,213	May 5	75	830
Leads.	A. Rich & Co.	28,214	May 5	75	830
Leads.	A. Rich & Co.	28,296	May 26	75	1356
Leather.	Bernard & Friedman.	28,010	Mar. 24	74	1728
Leather.	Kullman, Salz & Company.	29,298	Dec. 15	77	1777
Leather.	White Bros. & Co.	28,205	May 5	75	829
Leather and leather boots and shoes.	M. C. Dizer & Co.	28,863	Sept. 8	76	1571
Leather and leather pneumatic tires for bicycle and other wheels.	A. F. Munro and G. O. Hitchings.	29,288	Dec. 8	77	1594
Leather-dressing.	Restorff & Bettmann.	28,081	Apr. 7	75	179
Leather dressing and polishing preparations.	A. L. Aste.	28,645	July 21	76	472
Leather made from hides or skins.	Wilder & Co.	28,028	Mar. 31	74	1893
Leather. Preparation for preventing cracking of japanned.	Cunningham Anti-Krack Co.	28,646	July 21	76	472
Leather-preserving composition. Patent.	T. P. Spencer.	28,939	Oct. 6	77	149
Leather. Shoe.	American Leather Company.	28,850	Sept. 1	76	1415
Leather. Sole.	J. W. & A. P. Howard & Co.	28,300	June 16	75	1848
Leather. Split.	J. P. Crane.	29,348	Dec. 29	77	2131
Ledgers. Assessment and tax.	S. R. Fairchild.	29,115	Nov. 10	77	968
Lemons.	Santa Barbara Lemon Growers' Exchange.	29,000	Oct. 13	77	311
Lemons.	Santa Barbara Lemon Growers' Exchange.	29,001	Oct. 13	77	311
Lemons and oranges.	C. Triolo.	29,165	Nov. 17	77	1120
Lenses and lens-cases and all optical goods using lenses.	Haight Fruit Co.	27,647	Jan. 14	74	267
Licorice.	J. W. Patterson.	29,056	Oct. 27	77	629
Licorice and licorice products.	F. P. Seudder.	27,809	Feb. 18	74	960
Limestone. Crushed.	Stamford Manufacturing Company.	28,636	July 21	76	471
Linens.	Bowker Fertilizer Company.	27,768	Feb. 11	74	803
Liniment.	Regenhart & Raymann.	28,582	July 14	76	330
Liniment.	J. L. De Jarnatt.	28,837	Sept. 1	76	1414
Liniment.	A. Gildersleeve.	29,350	Dec. 29	77	2131
Liniment.	Imperial Granum Company.	28,506	June 30	75	2191
Liniment.	P. S. Miller.	29,349	Dec. 29	77	2130
Liniment.	W. T. Moxon.	28,086	Apr. 7	75	179
Liniment, balsam, salves, eye-waters, worm-candy, and remedies for rheumatism and liver and kidney troubles.	T. B. Rice.	28,681	July 28	76	606
Liniments.	J. A. Jones Medicine Company.	28,138	Apr. 14	75	344
Liniments, extracts, and like preparations.	T. S. Waltman.	27,740	Feb. 4	74	650
Linotyping, stereotyping, and electrotyping. Metals for.	E. Sullivan.	28,245	May 12	75	992
Liquor.	J. J. Frowein.	29,058	Oct. 27	77	630
Liquor.	Société Anonyme de la Distillerie de la Liqueur Bénédicte de l'Abbaye de Fécamp.	29,166	Nov. 17	77	1121
Lithographic prints.	Kaufmann & Strauss Company.	28,985	Oct. 13	77	309
Lotion for the skin.	G. K. Hopkins.	27,739	Feb. 4	74	650
Lotion for the skin and hair.	B. Hafer.	29,358	Dec. 29	77	2130
Lozenges.	H. Thayer & Co.	28,092	Apr. 7	75	180
Lozenges.	Wright & Moody.	27,810	Feb. 18	74	960
Lozenges and other confectionery.	Smith & Peters.	29,139	Nov. 10	77	970
Lozenges and other confectionery.	Smith & Peters.	29,374	Dec. 29	77	2133
Lozenges and other confections.	G. J. Blome.	27,894	Mar. 3	74	1274
Lozenges. Bronchial.	S. C. Haviland.	28,503	June 30	75	2191
Lubricants and dressings.	Kent Lubricating Company.	28,002	Apr. 7	75	179
Lumber. Yellow-pine.	Simpson & Co.	27,608	Jan. 7	74	140

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Lye and caustic potash	E. N. Hall	28,486	June 30	75	2189
Lye and caustic potash	E. N. Hall	28,487	June 30	75	2190
Lye and caustic potash	E. N. Hall	28,488	June 30	75	2190
Lye and caustic potash	E. N. Hall	29,234	Dec. 1	77	1424
Lye and caustic potash	E. N. Hall	29,235	Dec. 1	77	1425
Lye or soda. Caustic	Pennsylvania Salt Manufacturing Company	28,881	Sept. 15	76	1710
Macaroni, spaghetti, vermicelli, and noodles	Crescent Macaroni Company	28,843	Sept. 1	76	1415
Macaroni, spaghetti, vermicelli, and noodles	Crescent Macaroni Company	28,844	Sept. 1	76	1415
Magazines	Owl Publishing Co.	28,470	June 30	75	2188
Magazines. Periodical fashion	Butterick Publishing Company	29,023	Oct. 20	77	450
Malt and hops for the manufacture of a beverage. Preparation of	C. Louder	28,804	Aug. 25	76	1270
Malt, brewed, or fermented liquors	Voigt Brewery Company	28,685	July 28	76	606
Malt extract	G. Lanzendoerfer	28,630	July 21	76	471
Malt extract	Voigt Brewery Company	28,131	Apr. 14	75	343
Malt extract and malt foods	Anheuser-Busch Brewing Association	28,905	Sept. 29	76	2004
Malt extract for brewers' use	Indianapolis Brewing Company	28,906	Sept. 29	76	2004
Malt extracts	English Diastasic Malt Extract Company	28,711	Aug. 4	76	783
Malt extracts and peptonized malt foods	A. Lieber	28,764	Aug. 18	76	1111
Malt tonic, lager-beer, ale, and porter	Minneapolis Brewing Company	27,813	Feb. 18	74	960
Malto-peptone yeast food and malt-extract preparations	Malto-Peptide Co.	27,862	Feb. 25	74	1118
Manganese ores	L. Feuchtwanger & Co.	28,460	June 23	75	2006
Matches	Delacamp & Co.	28,060	Mar. 31	74	1896
Matches	Enterprise Specialty Company	29,393	Dec. 29	77	2135
Matches. Parlor	American Manufacturing Company	27,997	Mar. 24	74	1727
Meal. Animal	Bowker Fertilizer Company	27,998	Mar. 24	74	1727
Meat. Coloring and preservative of	B. Heller	28,596	July 14	76	331
Meat extract	Liebig's Extract of Meat Company	28,591	July 14	76	331
Meat extract	Liebig's Extract of Meat Company	28,592	July 14	76	331
Meat extract	Liebig's Extract of Meat Company	28,593	July 14	76	331
Meats. Sugar-cured	J. Vogel & Son	28,032	Mar. 31	74	1893
Medical compound of antipyretic and antineuralgic properties	Basle Chemical Works Bindschedler	29,091	Nov. 3	77	808
Medical compound to be used as an astringent	Knoll & Co.	28,348	June 2	75	1546
Medical purposes. Effervescent salt for	Schenck & Stiebeling	28,707	Aug. 4	76	783
Medical vaporizers	R. E. Woodward	27,600	Jan. 7	74	139
Medicaments. Certain named	G. R. White	27,704	Jan. 28	74	492
Medicated chewing-gum	Wellman & Minzel	29,169	Nov. 17	77	1121
Medicated shoe-pads	Antiswetsol Company	28,354	June 9	75	1701
Medicated smoking compounds	H. Y. McCord and A. H. Spain	29,170	Nov. 17	77	1121
Medicated tablets	J. R. Gordon	28,654	July 7	76	160
Medicated tablets	O. King	28,998	Oct. 13	77	311
Medicated toilet powder	S. Dalsimer & Sons	28,302	May 26	75	1356
Medicated wines, spirits, and liquors	A. H. Morrell	28,130	Apr. 14	75	343
Medicinal and surgical preparations, such as antiseptic powders	Chevrier & Kraus	28,499	June 30	75	2191
Medicinal barks, roots, and herbs and preparations therefrom	O. S. Noyes	28,175	Apr. 21	75	506
Medicinal bitters	L. N. Brunswick	28,089	Apr. 7	75	179
Medicinal food	E. O. Tadin	27,861	Feb. 25	74	1118
Medicinal liquids or pellets for all forms of dyspepsia	J. J. Bissett	28,174	Apr. 21	75	506
Medicinal preparation for coughs, colds, and other affections of the lungs and respiratory organs	W. T. Owbridge	28,046	Mar. 31	74	1895
Medicinal preparation for the hair	J. W. Nelson	28,140	Apr. 14	75	344
Medicinal preparations	E. Thompson	28,912	Sept. 29	76	2005
Medicinal preparations. Certain named	E. Mather	27,737	Feb. 4	74	650
Medicinal preparations containing iron or manganese	R. Fabery	29,194	Nov. 24	77	1267
Medicinal tablets	Marie Antoinette Company	28,555	July 7	76	160
Medicinal tablets. Certain	Firm of J. A. & W. V. Ritter	27,738	Feb. 4	74	650
Medicinal tea	C. and H. Steinkraus	29,361	Dec. 29	77	2132
Medicinal tonic. Certain	A. W. Moore	28,014	Mar. 24	74	1729
Medicinal tonic or beverage	B. F. Whittington	28,191	Apr. 28	75	671
Medicinal wine	A. H. Still	29,308	Dec. 15	77	1778
Medicine. Antirheumatic, antineuralgic, and antipyretic	C. G. Bacon, Jr.	29,354	Dec. 29	77	2131
Medicine. Blood	F. Hobart	27,859	Feb. 25	74	1118
Medicine-capsules	T. M. Duché & Sons	28,819	Aug. 25	76	1271
Medicine composed mainly of herbs	E. and H. Densmore	28,958	Oct. 6	77	150
Medicine, extracts, and oils. Certain named	A. H. Gottschall	28,048	Mar. 31	74	1895
Medicine for coughs and lung troubles and for liver and kidney diseases	G. W. Griffin	28,013	Mar. 24	74	1728
Medicine for diphtheria and scarlet fever	M. A. Bradley	27,925	Mar. 10	74	1437
Medicine for external and internal use. Certain liquid	E. A. Neer	29,175	Nov. 17	77	1121
Medicine for external application. Liquid	H. Anderson	28,836	Sept. 1	76	1414
Medicine. Granular effervescent	Koehler & Hinrichs	28,303	May 26	75	1356
Medicine. Herb and fruit	E. and H. Densmore	28,504	June 30	75	2191
Medicine in pure cane-sugar globules, absorbent sugar disks, and sugar-of-milk tablets	Standard Homoeopathic Globule Manufactory	28,774	Aug. 18	76	1112
Medicine in the form of pills	M. A. Sullivan	27,803	Feb. 18	74	959
Medicine. Kidney and liver	J. W. Cope	28,509	June 30	75	2191
Medicine. Laxative	Tarrant & Company	29,093	Nov. 3	77	809
Medicine. Laxative	Tarrant & Company	29,174	Nov. 17	77	1121
Medicine. Stomach and liver	M. A. Simmons, Jr.	27,961	Mar. 17	74	1585
Medicine, surgery, and pharmacy. Chemical preparations used in	McKesson & Robbins	28,278	May 19	75	1198
Medicine to cure fever	L. V. Machado	27,674	Jan. 21	74	375
Medicine. Tonic, alterative, and laxative	Dr. B. J. Kay Medical Company	27,703	Jan. 28	74	492
Medicines. Antiseptic	Moffitt-West Drug Company	27,806	Feb. 18	74	959
Medicines. Antiseptic	H. D. Williams	28,821	Aug. 25	76	1271
Medicines, dietetic preparations, and books. Homeopathic	Homeopatische Central-Apotheke Dr. Willmar Schwabe	28,274	May 19	75	1198
Medicines. Laxative	Tarrant & Company	29,306	Dec. 15	77	1778
Metal	A. Chambers	27,908	Mar. 3	74	1275

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Metal bars and bearings. Antifriction.	C. Richardson.	27,719	Jan. 28	74	494
Metal-polish.	D. F. Carver.	28,145	Apr. 14	75	345
Metal-polish.	Firm of S. Herz.	28,351	June 9	75	1701
Metal-polish.	Woods Manufacturing Company.	27,826	Feb. 18	74	961
Metal-polishing material.	Borsum Bros.	29,105	Nov. 3	77	810
Middlings.	Freeman Milling Company.	29,383	Dec. 29	77	2134
Milk. Condensed.	Mohawk Condensed Milk Co.	28,627	July 21	76	471
Milk. Condensed.	J. Waerling.	28,816	Aug. 25	76	1271
Milk, cream, and cheese.	New York Condensed Milk Company.	27,775	Feb. 11	74	804
Milk, cream, and the products thereof.	W. H. Fosmer.	28,480	June 30	75	2189
Milk, cream, butter, and cheese.	Canajoharie Creamery Company.	28,688	July 28	76	607
Mills. Pulverizing.	Bradley Pulverizer Company.	27,660	Jan. 14	74	268
Mineral-spring water.	Puritas Mineral Springs Company.	29,003	Oct. 13	77	311
Mineral-spring water.	Tallawanda Mineral Spring Company.	27,851	Feb. 25	74	1117
Mineral water.	Glenwood Hot Springs Company.	28,629	July 21	76	471
Mineral water. Aperient.	E. Steinkopf.	27,744	Feb. 4	74	650
Mineral water. Natural.	Esculap Bitter Water Company.	29,312	Dec. 15	77	1779
Mineral waters and medicinal preparations containing the same.	J. E. Paul.	28,878	Sept. 15	76	1710
Mittens. Knit.	Star Knitting Company.	29,253	Dec. 8	77	1591
Models for use in schools. Wood and paper.	Milton Bradley Company.	28,471	June 30	75	2188
Mordants for dyeing purposes.	Gilbert Bros. & Co.	27,668	Jan. 21	74	375
Mordants for dyeing purposes.	Gilbert Bros. & Co.	27,732	Feb. 4	74	649
Morocco, patent-leather, and goods of that character.	P. Rielly & Son.	27,843	Feb. 25	74	1117
Mucilage, paste, and glue.	Diamond Ink Co.	29,050	Oct. 27	77	628
Mucilage, paste, cement, or glue. Substitute for.	Firm of C. Carrington & J. A. Link.	28,643	July 21	76	472
Musical-instrument strings.	Rice Musical String Company.	28,923	Sept. 29	76	2006
Mustard and mustard products.	J. & J. Colman.	28,764	Aug. 18	76	1112
Mustard and spices.	Sadler, Firth & Ross.	29,273	Dec. 8	77	1592
Mustard and spices.	Stickney & Poor Spice Company.	28,791	Aug. 18	76	1113
Mustard and spices.	Stickney & Poor Spice Company.	28,792	Aug. 18	76	1114
Mustard and table-mustard.	J. & J. Colman.	28,785	Aug. 18	76	1112
Mustard and table-mustard.	J. & J. Colman.	28,786	Aug. 18	76	1113
Mustard and table-mustard.	J. & J. Colman.	28,787	Aug. 18	76	1113
Mustard and table-mustard.	J. & J. Colman.	28,788	Aug. 18	76	1113
Mustard and table-mustard.	J. & J. Colman.	28,789	Aug. 18	76	1113
Mustard and table-mustard.	J. & J. Colman.	28,790	Aug. 18	76	1113
Mustard and table-mustard.	J. & J. Colman.	28,924	Oct. 6	77	148
Mustard and table-mustard.	J. & J. Colman.	28,926	Oct. 6	77	148
Mustard and table-mustard.	J. & J. Colman.	28,927	Oct. 6	77	148
Mustard. Table.	J. & J. Colman.	28,812	Aug. 25	76	1270
Mustard. Table.	J. & J. Colman.	28,813	Aug. 25	76	1271
Mustard. Table.	J. & J. Colman.	28,814	Aug. 25	76	1271
Mustard. Table.	J. & J. Colman.	28,925	Oct. 6	77	148
Mustard. Tomato.	A. J. Wenham's Sons.	29,066	Nov. 3	77	808
Nails and tacks.	F. S. Gwyer.	27,829	Feb. 18	74	961
Neckwear.	J. K. Middleton.	27,687	Jan. 28	74	491
Neckwear.	J. Prenowitz.	28,353	June 9	75	1701
Needles.	F. P. Green.	27,716	Jan. 28	74	493
Newspapers.	Kansas City Star Company.	28,384	June 16	75	1849
Newspapers.	Press Publishing Company.	29,245	Dec. 8	77	1590
Non-heat-conducting coverings for steam-pipes, boilers, &c.	H. W. Johns Manufacturing Company.	27,663	Jan. 21	74	374
Nozzles. Spraying.	Deming Company.	28,756	Aug. 11	76	960
Nut-locks.	G. E. Strauss and E. Klahn.	29,031	Oct. 20	77	450
Nuts and bolts.	J. H. Sternbergh & Son.	27,678	Jan. 21	74	376
Oats and oatmeal. Rolled.	Muscatine Oat Meal Company.	28,309	May 26	75	1357
Oats. Rolled.	American Cereal Company.	28,157	Apr. 21	75	504
Oil-cloths.	Atha & Hughes.	28,531	July 7	76	157
Oil for internal and external use.	J. C. Estelle.	29,351	Dec. 29	77	2131
Oil for machinery of all kinds. Lubricating.	Pacific Steam Whaling Company.	28,083	Apr. 7	75	179
Oil. Illuminating.	Jenney Manufacturing Company.	28,084	Apr. 7	75	179
Oil. Illuminating.	Scofield, Shurmer & Teagle.	28,044	Mar. 31	74	1895
Oil of eucalyptus or rheumatic oil.	J. Bosisto & Co.	29,261	Dec. 8	77	1591
Oil. Olive.	F. Romeo & Co.	29,145	Nov. 10	77	971
Oil preparation. Tasteless castor.	Hitchcock & Stevens.	28,437	June 23	75	2004
Oil. Refined illuminating.	R. J. Venning.	29,179	Nov. 17	77	1122
Oil, stearine, and tallow. Oleo.	G. & D. Isaacs.	29,019	Oct. 20	77	449
Oil. Wool.	Kebew-Bradley Company.	28,677	July 28	76	606
Oils and lubricants of all kinds.	Vacuum Oil Company.	28,936	Oct. 6	77	149
Oils and lubricants of all kinds.	Vacuum Oil Company.	28,937	Oct. 6	77	149
Oils and their compounds. Certain.	C. H. Howell & Co.	27,709	Jan. 28	74	493
Oils. Illuminating.	Freedom Oil Works Company.	28,361	June 9	75	1702
Oils. Illuminating.	Freedom Oil Works Company.	28,362	June 9	75	1702
Oils. Illuminating.	Standard Oil Company of New York.	29,337	Dec. 22	77	1935
Oils. Illuminating.	Standard Oil Company of New York.	29,338	Dec. 22	77	1935
Oils. Illuminating.	Standard Oil Company of New York.	29,339	Dec. 22	77	1935
Oils. Illuminating.	Warden & Oxnard.	28,767	Aug. 18	76	1111
Oils. Lubricating.	F. A. Schnorr.	28,599	July 14	76	332
Ointment for cure of piles.	C. Berkovitz.	27,787	Feb. 11	74	805
Ointment for the removal of wrinkles and other skin disorders.	Jordain & Co.	28,248	May 12	75	992
Ointment for toilet purposes.	Edward R. Marshall Co.	29,360	Dec. 29	77	2131
Ointment or salve. Healing.	F. Hofele.	28,507	June 30	75	2191
Ointments.	J. L. Bull.	27,766	Feb. 11	74	805
Ointments.	J. Hughes.	28,356	June 9	75	1701
Ointments for bruises, sores, sprains, burns, skin diseases, and the like.	G. Kuchle.	28,169	Apr. 21	75	505
Ointments, remedies for coughs and kindred complaints, colic, cholera, diarrhea, and liver diseases.	E. E. Sutherland Medicine Company.	28,281	May 19	75	1199
Oleomargarine.	Capital City Dairy Company.	28,095	Apr. 7	75	160
Olives, olive-oil, French peas, and macaroni.	Falcon Packing Co.	29,387	Dec. 29	77	2135
Opera and marine glasses.	Sussfeld, Lorsch & Co.	28,258	May 19	75	1197

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Title.	Name.	No.	Date.	Official Gazette.	
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Optical instruments	Automatic Sight Testing and Optical Supply Company.	28,146	Apr. 14	75	345
Overalls, pants, and trousers made of jean	L. Loewenthal Sons & Co.	28,466	June 30	75	2188
Overgaiters, leggings, shoe nails, pegs, dressing, cement, blacking, ink, insoles, and laces.	A. Fincks Sons	29,256	Dec. 8	77	1591
Ozocerite	Kais. Kön. Privilegirte Österreichische Länderbank.	29,106	Nov. 3	77	810
Packing. Piston	American Steam Packing Co.	28,079	Apr. 7	75	179
Packing. Piston	Charleston Metallic Packing Company.	28,417	June 23	75	2003
Pain-exttractor, system-regulator, headache-powder, plaster, and poultry-powder.	E. H. W. Stahlhuth	28,642	July 21	76	472
Paint	J. A. & W. Bird & Co.	28,968	Oct. 6	77	151
Paint	C. W. Kennon	28,244	May 12	75	991
Paint	A. B. McNairy & Co.	28,915	Sept. 29	76	2005
Paint	J. S. Reeder	28,916	Sept. 29	76	2005
Paint and stain remover and cleaning solution	A. Rich & Co.	28,209	May 5	75	829
Paint and varnish removers	Harrison Bros. & Co.	29,286	Dec. 8	77	1593
Paint. Compound for removing	C. S. Bailey	27,767	Feb. 11	74	803
Paint. Enamel	F. Furness	27,733	Feb. 4	74	649
Paint from wood or metal. Compound for removing.	Gramly, Beck & Co.	28,752	Aug. 11	76	959
Paint. Roof	T. B. Wall	29,068	Nov. 3	77	806
Paints	J. E. Haskell	27,969	Mar. 17	74	1585
Paints	Iron Clad Paint Company	28,334	June 2	75	1544
Paints	J. B. Orr & Co.	29,107	Nov. 3	77	810
Paints and colors	Patterson-Sargent Company	27,640	Jan. 14	74	266
Paints and colors. Dry and mixed	Spence-Grant Manufacturing Company.	28,243	May 12	75	991
Paints, driers, and varnishes	G. C. Liszka, Incorporated.	28,515	June 30	75	2192
Paints. Ready-mixed	C. H. Butterworth	28,823	Aug. 25	76	1272
Paints. Ready-mixed	Francis-Frost Company	29,237	Dec. 1	77	1425
Paints, stains, fillers, japans, and varnishes	Harrison Bros. & Co.	28,002	Mar. 24	74	1727
Paints, stains, fillers, japans, varnishes, and similar articles.	Harrison Bros. & Co.	27,853	Feb. 25	74	1117
Panaceas. Domestic or infantile	Tri-Cure Co.	27,705	Jan. 28	74	492
Paper and envelopes	Agawam Paper Company	27,849	Feb. 25	74	1117
Paper and envelopes	Central Ohio Paper Company	27,729	Feb. 4	74	649
Paper and envelopes	Eastern Paper Company	28,382	June 16	75	1848
Paper and envelopes	Hurlbut Stationery Company	27,586	Jan. 7	74	134
Paper and envelopes. Writing	Z. & W. M. Crane	29,024	Oct. 20	77	450
Paper and envelopes. Writing	W. H. Hasbrouck & Co.	27,686	Jan. 28	74	451
Paper and envelopes. Writing	G. B. Hurd & Co.	28,730	Aug. 11	76	557
Paper and envelopes. Writing	Southworth Company	29,034	Oct. 27	77	627
Paper and paper-board	J. Hofmeier	28,762	Aug. 18	76	1111
Paper and paper used for other and similar purposes. Writing and note	Whiting Paper Company	28,260	May 19	75	1197
Paper bags	Union Bag and Paper Company	27,931	Mar. 10	74	1438
Paper bags	G. West	28,530	July 7	76	157
Paper. Carbon	A. P. Little	28,698	Aug. 4	76	782
Paper cleaners. Wall	S. D. Striker	28,242	May 12	75	991
Paper for pamphlet and other covers	Niagara Paper Mills	28,320	June 2	75	1543
Paper. Linen writing	Marcus Ward & Company	29,292	Dec. 15	77	1777
Paper. Linen writing	Marcus Ward & Company	29,293	Dec. 15	77	1777
Paper. Linen writing	Marcus Ward & Company	29,294	Dec. 15	77	1777
Paper, paper boxes, and paper bags. Wrapping	Miller, Tompkins & Co.	28,527	Mar. 31	74	1293
Paper shot-shells	Union Metallic Cartridge Company.	27,902	Mar. 3	74	1274
Paper shot-shells	Union Metallic Cartridge Company.	27,903	Mar. 3	74	1274
Paper. Toilet	M. E. Manahan	28,541	July 7	76	158
Paper. Wall	A. Peats	27,878	Mar. 3	74	1273
Paper. Writing	Cunningham, Curtiss & Welch	28,897	Sept. 29	76	2003
Paper. Writing	G. H. Taylor	29,326	Dec. 22	77	1934
Papers. Building	Mica Roofing Co.	28,522	June 30	75	2192
Papers. Note, writing, and other	Whiting Paper Company	28,383	June 16	75	1848
Papers. Writing	Carew Manufacturing Company	28,428	June 23	75	2004
Pasteboard and boxes, cases, wrappers, envelopes, and other articles manufactured therefrom.	Thompson & Norris Company	29,117	Nov. 10	77	968
Peanuts	American Biscuit and Manufacturing Company.	28,922	Sept. 29	76	2006
Peanuts. Raw and roasted	C. F. McCort	29,164	Nov. 17	77	1120
Pelts, hides, skins, furs, wools, and tallow	W. J. Burnett	27,802	Feb. 18	74	950
Pencils and penholders	Firm of H. C. Kurz	27,921	Mar. 10	74	1437
Pencils, penholders, and cases, erasers, leads, slates, chalks, and other stationery.	Bleistiftfabrik, vormals Johann Faber Actien-Gesellschaft.	28,381	June 16	75	1848
Pencils, penholders, and crayons. Lead	G. Sackersdorf	28,675	July 28	76	605
Pencils, penholders, and ink-wells	Moser & Lyon Company	28,539	July 7	76	158
Pens	L. Dreka	29,114	Nov. 10	77	968
Pens	Tower Manufacturing and Novelty Company.	28,071	Apr. 7	75	178
Pens. Writing	E. L. Horney	27,730	Feb. 4	74	649
Pepsin wafers	J. Shattuck	29,195	Nov. 24	77	1267
Peptonate of iron	Rothschild Bros. & Co.	27,701	Jan. 28	74	492
Perfumeries, toilet articles, cosmetics, and hair-restorers	Kiessel & Fehner	28,436	June 23	75	2004
Perfumery	Firm of A. Wright	29,074	Nov. 3	77	807
Perfumery and other preparations for the toilet	P. Prot & Co.	27,714	Jan. 28	74	403
Perfumery and toilet articles	R. Hudnut	28,495	June 30	75	2190
Perfumery, extracts, powders, lotions, cosmetics, hair restoratives, and soap.	Wood Brothers	27,854	Feb. 25	74	1118
Perfumes	G. H. Rives	27,996	Mar. 24	74	1727
Perfumes, powders, soaps, dentifrice, creams, hair-oils, and similar goods.	R. Hudnut	28,496	June 30	75	2190
Perfumes, powders, toilet waters and articles, and essential oils.	McKenzie Brothers & Hill	27,808	Feb. 18	74	960
Perfumes, soap, and creams	Apotheker Weiss & Co.	29,010	Oct. 13	77	312
Perfumes, toilet waters, lotions, soaps, and powders	Firm of S. Palmer	28,771	Aug. 18	76	1111
Perfumes, waters, powders, lotions, and soap	Firm of S. Palmer	28,143	Apr. 14	75	345

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Petroleum.....	Columbia Oil Company of New York.	28,651	July 21	76	473
Pharmaceutical and cosmetical products.....	Norddeutsche Wollkammerei & Kammgarntspinnerei.	28,679	July 28	76	606
Pharmaceutical compounds for increasing the pressure of the blood.	Chemische Fabrik von Heyden, Gesellschaft mit Beschränkter Haftung.	28,773	Aug. 18	76	1111
Pharmaceutical preparations containing myrrh.....	Flügge & Co.	29,171	Nov. 17	77	1121
Pharmaceutical preparations for internal use.....	Chemische Fabrik von Heyden Gesellschaft mit Beschränkter Haftung.	28,957	Oct. 6	77	150
Pharmaceutical preparations in capsules.....	Fischer Chemical Importing Company.	28,748	Aug. 11	76	959
Pharmaceutical preparations in the form of tablets.....	Firm of G. Georgi.	28,501	June 30	75	2191
Pharmaceutical product used as a substitute for sugar.....	Farbenfabriken, vormals Fr. Bayer & Co.	28,502	June 30	75	2191
Photographic cameras.....	Eastman Kodak Company.....	27,871	Feb. 25	74	1119
Photographic dry-plates.....	M. A. Seed Dry Plate Company.....	27,685	Jan. 28	74	491
Photographically exhibiting objects in motion. Apparatus for	A. Lumière & Ses Fils.....	29,394	Dec. 29	77	2135
Pianos.....	P. J. Cunningham Company.....	27,918	Mar. 3	74	1276
Pianos and organs.....	H. L. Steinert.	28,826	Aug. 25	76	1272
Pianos, organs, and parts thereof. Automatic.....	Wilcox & White Organ Company.....	28,332	June 2	75	1543
Pickled and canned tongues and meats, tripe, and pigs' feet.	New York Fresh Tripe Company.....	28,310	May 26	75	1357
Pickles.....	Skilton, Foote & Co.	29,198	Nov. 24	77	1267
Pickles, catsups, and sauces.....	Johnson Bros. & Co.	28,626	July 21	76	471
Pickles, chow chow, and like relishes.....	Gebhart & Co.	27,696	Jan. 28	74	492
Pile cure. Liquid.....	La Fevre & Sawyer.	27,653	Jan. 14	74	268
Pills.....	Dr. Miles Medical Company.....	28,640	July 21	76	472
Pills.....	W. T. Hanson Company.....	27,706	Jan. 28	74	493
Pills.....	J. Hughes.....	28,606	July 14	76	332
Pills.....	J. Hughes.....	28,607	July 14	76	332
Pills.....	J. Lynn & Co.	28,505	June 30	75	2191
Pills.....	Macdonald, Jameson & Co.	27,660	Feb. 25	74	1118
Pills and liquids. Blood-purifiers in.....	H. C. Wilkinson.....	27,807	Feb. 18	74	959
Pills and pellets.....	A. F. Richardson.....	28,012	Mar. 24	74	1728
Pills, powders, and ointments.....	Morison & Co.	28,390	June 16	75	1649
Pins, hair-pins, clips, and other metal fastening devices. Safety.	Consolidated Safety Pin Company.....	27,889	Mar. 3	74	1273
Pins, jewelry, and bijouterie.....	D. N. Cook.....	28,321	June 2	75	1543
Pins. Safety.....	Oakville Company.....	27,870	Feb. 25	74	1119
Pipe and boiler covering. Non-conductive.....	New York Asbestos Manufacturing Company.	27,873	Feb. 25	74	1119
Pipe-covering. Sectional.....	Macan & Co.	28,329	June 2	75	1544
Pipe-covering. Sectional.....	Macan & Co.	28,532	July 7	76	158
Pipes, conduits, and roofing and paving. Compositions for sewer.	Asphaltina Company of America.....	27,639	Jan. 14	74	266
Pistols, rifles, and sporting guns.....	Colt's Patent Fire Arms Manufacturing Company.	27,794	Feb. 11	74	806
Plaster. Wall.....	Keystone Plaster Company.....	27,905	Mar. 3	74	1275
Plasters.....	Dr. Miles Medical Company.....	28,641	July 21	76	472
Plastic cementitious material. Compressible tubular holders for.	Boston Woven Hose and Rubber Company.	29,155	Nov. 10	77	972
Plows.....	J. Wallace's Sons.....	27,607	Jan. 7	74	140
Plows and cultivators.....	St. Joseph Manufacturing Company.....	28,186	Apr. 21	75	506
Plows and their parts.....	Bucher & Gibbs Plow Company.....	27,978	Mar. 17	74	1586
Plows and their parts.....	Bucher & Gibbs Plow Company.....	27,979	Mar. 17	74	1586
Plows and their parts.....	Bucher & Gibbs Plow Company.....	28,006	Mar. 24	74	1728
Plows and their parts.....	Bucher & Gibbs Plow Company.....	28,007	Mar. 24	74	1728
Plows and their parts.....	South Bend Iron Works.....	27,929	Mar. 10	74	1438
Plows, cultivators, and their parts and attachments.....	Southern Agricultural Works.....	27,883	Feb. 25	74	1120
Plowshares, hoes, cultivator-teeth, sweeps, blades, and scrapers.	Macon Agricultural Works.....	28,662	July 21	76	474
Poison. Animal and bird.....	E. W. Dodge.....	28,085	Apr. 7	75	179
Polish for wooden surfaces.....	C. A. Hyde.....	27,552	Feb. 25	74	1117
Polishing cloths, gloves, and mittens.....	J. J. Naef, A. Brauch, and J. Hilton.	27,987	Mar. 24	74	1726
Pomade, face-cream, and restoratives, dressings, and dye for the hair.	E. M. Ten Eyck.....	28,116	Apr. 7	75	182
Porter. Flavor for.....	D. D. Williamson & Co.....	28,631	July 21	76	471
Powder. Blasting.....	New York Powder Company.....	28,126	Apr. 14	75	343
Powder. Foot.....	T. J. Lewi.....	27,899	Mar. 3	74	1274
Powder for the feet.....	C. J. Petit.....	28,553	July 7	76	160
Powder for the feet. Chemical.....	C. L. Carpenter.....	27,900	Mar. 3	74	1274
Powder. Horse, cattle, and poultry.....	C. Lenhart.....	28,910	Sept. 29	76	2004
Powder. Smokeless.....	Rheinisch-Westfälische Sprengstoff-Actien-Gesellschaft.	27,901	Mar. 3	74	1274
Powders. Chicken.....	S. C. Sedwick.....	28,557	July 7	76	160
Powders for the feet.....	A. S. Olmsted.....	28,605	July 14	76	332
Powders. Headache.....	L. J. Yaekel.....	28,3-9	June 16	75	1849
Powders, lotions, and ointments. Foot.....	J. K. Drake.....	27,708	Jan. 28	74	493
Powders, salts, and tablets. Effervescent.....	W. L. Keller.....	29,047	Oct. 27	77	628
Powders. Teething.....	J. H. Stedman.....	28,999	Oct. 13	77	311
Preparation. Certain proprietary.....	Brandreth Company.....	27,620	Jan. 7	74	141
Preparation. Certain proprietary.....	Brandreth Company.....	27,621	Jan. 7	74	141
Preparation for sore throat, hoarseness, coughs, colds, and earache.	J. A. Uhlend.....	29,092	Nov. 3	77	808
Preparations for preventing and overcoming odors from perspiration.	S. C. Noble.....	28,604	July 14	76	332
Preparations in which whisky predominates.....	S. I. Nusbaum.....	29,167	Nov. 17	77	1121
Preventive against animal diseases.....	Farbwerk Friedrichsfeld, Dr. Paul Remy.	29,178	Nov. 17	77	1122
Printed blanks and envelopes.....	Postal Telegraph-Cable Company.....	29,221	Dec. 1	77	1423
Printed publications.....	Burke & Beyer.....	29,295	Dec. 15	77	1777
Printed woven fabrics.....	Eddystone Manufacturing Company.....	29,159	Nov. 17	77	1120
Pulleys.....	D. E. Newell.....	27,874	Feb. 25	74	1119
Pump. Portable air.....	Cleveland Faucet Company.....	28,572	July 7	76	162

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Pumps	F. E. Myers & Bro.	28,665	July 21	76	474
Pumps and engines	George F. Blake Manufacturing Company.	28,615	July 14	76	332
Pumps and engines	George F. Blake Manufacturing Company.	28,872	Sept. 8	76	1572
Purveyor's goods.	J. D. Dewell & Co.	27,780	Feb. 11	74	805
Radiators and boilers.	Gurney Heater Manufacturing Company.	27,628	Jan. 7	74	142
Railway-track bolts	J. H. Sternbergh & Son	27,718	Jan. 28	74	493
Raisin-seeding machines	A. C. Williams	28,573	July 7	76	162
Raisins	Boston Raisin Company	27,646	Jan. 14	74	267
Range-boilers, closet-seats, and tanks. Copper	G. Booth	28,256	May 12	75	992
Range finders	W. C. Rafferty	28,323	June 2	75	1543
Razors	C. F. Butcher	28,050	Mar. 31	74	1895
Razors	G. Forzly & Co.	28,297	May 26	75	1356
Razors, knives, scissors, &c.	N. Malluk & Co.	27,830	Feb. 18	74	961
Razors, knives, scissors, &c.	N. Malluk & Co.	27,831	Feb. 18	74	962
Remedies and pills, tablets, and capsules. Internal.	Puritana Compound Company	28,112	Apr. 7	75	182
Remedies and pills, tablets, and capsules. Internal.	Puritana Compound Company	28,113	Apr. 7	75	182
Remedies. Certain named	M. Haurwitz and H. J. Frese	28,346	June 2	75	1545
Remedies. Certain named	J. H. Knoche	28,171	Apr. 21	75	505
Remedies. Certain named	J. H. Knoche	28,172	Apr. 21	75	505
Remedies. Certain named	Maiert & Ebers	27,896	Mar. 3	74	1274
Remedies. Certain named	D. E. Major	29,016	Oct. 20	77	449
Remedies. Certain named	O. R. Mierswa	27,927	Mar. 10	74	1438
Remedies. Certain named	J. T. Milliken & Co.	28,134	Apr. 14	75	344
Remedies. Certain named	S. S. Ryckman Medicine Co.	27,651	Jan. 14	74	268
Remedies. Certain named	F. E. E. Shaw	27,736	Feb. 4	74	650
Remedies. Certain named	C. J. Ulrici	28,387	June 16	75	1849
Remedies. Fever and ague	E. C. Howe	29,193	Nov. 24	77	1267
Remedies for blood diseases	Chemische Fabrik Grünau Landshoff & Meyer.	28,994	Oct. 13	77	310
Remedies for blood, stomach, nerve, and other diseases	R. M. Russell	28,746	Aug. 11	76	958
Remedies for colic, cholera, diarrhea, and constipation	E. E. Sutherland Medicine Company.	28,639	July 21	76	472
Remedies for common and simple disorders	Hance Bros. & White	29,131	Nov. 10	77	969
Remedies for diphtheria and lung diseases.	A. Plischke	27,617	Jan. 7	74	141
Remedies for diphtheria, sore throat, quinsy, croup, coughs, and catarrh.	R. M. Thompson	27,857	Feb. 25	74	1118
Remedies for diseases of the blood, including rheumatic affections.	J. H. Bobbitt and J. L. Ramsey	28,307	May 26	75	1357
Remedies for diseases of the blood, liver, and kidneys.	Bright's Chemical Co.	28,993	Oct. 13	77	313
Remedies for diseases of the stomach, liver, and kidneys.	C. O. Siebert & Co.	28,508	June 30	75	2197
Remedies for dyspepsia and kindred affections	L. and N. Adler Medicine Co.	28,547	July 7	76	159
Remedies for epilepsy and nervous diseases	L. C. Horn	28,944	Oct. 6	77	149
Remedies for erysipelas, fevers, catarrh, and liver and kidney diseases.	A. Raschke & Co.	28,914	Sept. 29	76	2005
Remedies for female complaints	E. M. Cook	29,173	Nov. 17	77	1121
Remedies for female complaints, tonics, tablets, pills, powders, bleaches, and cosmetics.	I. A. Detchen	28,548	July 7	76	159
Remedies for general prostration, coughs, colds, and similar troubles.	Humphreys Homeopathic Medicine Company.	27,599	Jan. 7	74	139
Remedies for gonorrhea and diseases of the urinary organs.	J. P. Hartmann and R. A. Ranck	28,386	June 16	75	1849
Remedies for gout and rheumatism	A. E. Hughes	29,352	Dec. 29	77	2131
Remedies for headache, catarrh, croup, colds, and similar affections.	Coraline Company	28,066	Mar. 31	74	1896
Remedies for headache, dyspepsia, rheumatism, and diseases of the blood, throat, and lungs.	J. L. Hoffman	28,065	Mar. 31	74	1896
Remedies for headache, neuralgia, and insomnia.	J. A. W. Fernow	28,064	Mar. 31	74	1896
Remedies for kidney and similar diseases	Testurine Company	29,260	Dec. 8	77	1591
Remedies for kidney diseases	F. H. Bates	27,675	Jan. 21	74	375
Remedies for malaria, liver complaints, coughs, colds, whooping-cough, and catarrh.	Saver Medical Co.	28,511	June 30	75	2197
Remedies for malnutrition and all its symptoms.	Moffitt-West Drug Company.	28,176	Apr. 21	75	506
Remedies for nervous, stomach, and blood diseases.	J. D. Murphy	28,284	May 19	75	1199
Remedies for perspiring feet	Böhringer & Reuss.	28,943	Oct. 6	77	149
Remedies for pulmonary, blood, and other diseases. Internal.	A. F. Richardson	28,173	Apr. 21	75	505
Remedies for pulmonary diseases, chlorosis, and anemia	M. J. Breitenbach Company	28,305	May 26	75	1357
Remedies for rheumatic diseases	G. W. Healy and R. H. C. Dana	28,513	June 30	75	2192
Remedies for rheumatism and all blood diseases.	H. H. Hyams	29,044	Oct. 27	77	628
Remedies for rheumatism and blood diseases	C. B. Mumford.	28,512	June 30	75	2192
Remedies for rheumatism and gout	B. T. Jacobs	28,608	July 14	76	332
Remedies for rheumatism, gout, lithiasis, scrofula, and kindred diseases.	Moffitt-West Drug Company.	28,286	May 19	75	1199
Remedies for rheumatism, gout, neuralgia, and kindred ailments.	Swanson Rheumatic Cure Company.	27,702	Jan. 28	74	492
Remedies for skin and other flesh wounds and diseases of animals.	Bickmore Gall Cure Company	28,282	May 19	75	1199
Remedies for skin diseases	Knoll & Co.	27,785	Feb. 11	74	805
Remedies for stomach, nerve, and blood diseases	J. D. Murphy	28,217	May 5	75	830
Remedies for the ailments of animals	F. V. Hueppe	28,011	Mar. 24	74	1728
Remedies for throat and lung affections	C. A. Roach	28,956	Oct. 6	77	150
Remedies for whooping-cough, colds and hoarseness, and throat and lung troubles.	Bassford & Robertson	28,945	Oct. 6	77	149
Remedies for women's diseases	La Porte Medicine Company	29,355	Dec. 29	77	2131
Remedies for women's diseases	G. A. Simard	28,744	Aug. 11	76	958
Remedies. Hair and scalp	L. P. Elliott	29,359	Dec. 29	77	2131
Remedies. Hog.	Farbwerk Friedrichsfeld, Dr. Paul Remy.	29,177	Nov. 17	77	1121
Remedies. Household	R. N. Dowlsley	29,305	Dec. 15	77	1778
Remedies. Vermifugal	Hance Bros. & White	29,356	Dec. 29	77	2131
Remedy. Catarrh	Kilo Pharmacal Co.	27,673	Jan. 21	74	375
Remedy. Catarrh	E. J. Thelin	28,388	June 16	75	1849
Remedy for blood and skin diseases. Internal	Salvation Blood Purifier Company.	29,015	Oct. 20	77	449

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Title.	Name.	No.	Date.	Official Gazette.	
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Remedy for burns.	S. B. Hull.	28,996	Oct. 13	77	310
Remedy for certain named diseases.	H. C. Lemke.	28,745	Aug. 11	76	958
Remedy for certain named diseases.	A. Rivera & Co.	27,650	Jan. 14	74	268
Remedy for consumption, malaria, and germinal diseases.	Whitehall Chemical Company.	28,218	May 5	75	830
Remedy for colds, la grippe, influenza, hay-fever, and kindred ailments.	E. E. Dixon & Co.	29,231	Dec. 1	77	1424
Remedy for coughs, colds, and bronchial and pulmonary affections.	G. F. Heublein & Bro.	28,306	May 26	75	1357
Remedy for croup.	A. H. Griswold.	28,136	Apr. 14	75	344
Remedy for diphtheria.	J. Therrien.	28,840	Sept. 1	76	1414
Remedy for diseases of the blood, liver, stomach, and kidneys.	H. Van Allen.	28,357	June 9	75	1701
Remedy for diseases of the liver.	R. E. Phillips.	28,510	June 30	75	2191
Remedy for diseases of the throat and lungs.	R. Hahn.	27,926	Mar. 10	74	1437
Remedy for dysentery or bowel complaints.	M. Dryer.	29,259	Dec. 8	77	1591
Remedy for dyspepsia.	Fairchild Bros. & Foster.	28,285	May 19	75	1199
Remedy for epilepsy and other nervous diseases. Fluid.	S. A. Richmond.	27,734	Feb. 4	74	649
Remedy for gout and rheumatism.	A. Hemmerlé.	28,638	July 21	76	472
Remedy for headache.	C. C. Cook.	29,172	Nov. 17	77	1121
Remedy for headache and neuralgia.	J. P. Stedman.	27,652	Jan. 14	74	268
Remedy for headache and similar disorders. A light-brown effervescent salt, a.	Kola-Seltzer Co.	28,445	June 23	75	2005
Remedy for headache. External.	J. B. Gotthelf.	29,043	Oct. 27	77	628
Remedy for headache, neuralgia, rheumatism, and pains in the stomach and bowels.	H. R. Kelly.	29,353	Dec. 29	77	2131
Remedy for headache. Pulverized, tablet, or liquid.	A. S. Olms.	28,304	May 26	75	1357
Remedy for hog-cholera and similar diseases.	T. L. Moore and N. B. Elgin.	28,164	Apr. 21	75	505
Remedy for indigestion, dyspepsia, and allied ailments.	W. R. Warner.	27,782	Feb. 11	74	805
Remedy for indigestion, dyspepsia, and allied ailments.	W. R. Warner.	27,783	Feb. 11	74	805
Remedy for indigestion, dyspepsia, and allied ailments.	W. R. Warner.	27,784	Feb. 11	74	805
Remedy for inebriety.	E. W. M. Cameron.	28,995	Oct. 13	77	310
Remedy for infants' complaints.	W. Petersen.	28,682	July 28	76	606
Remedy for kidney diseases.	A. D. Dimmick.	28,063	Mar. 31	74	1896
Remedy for liver diseases.	E. L. Andrews.	27,735	Feb. 4	74	649
Remedy for poultry diseases. Internal.	R. D. Jennings and T. C. Wilburn.	28,514	June 30	75	2192
Remedy for rheumatism.	H. L. Handy.	29,013	Oct. 20	77	449
Remedy for rheumatism and kindred diseases.	F. S. Mason.	29,192	Nov. 24	77	1267
Remedy for rheumatism, neuralgia, catarrh, colds, piles, and kindred diseases.	H. M. Marquet.	28,345	June 2	75	1545
Remedy for ruptures.	F. H. Wray.	28,347	June 2	75	1546
Remedy for skin diseases.	J. Blanchard.	27,963	Mar. 17	74	1585
Remedy for snuff, tobacco, and allied habits.	D. E. Morgan.	27,858	Feb. 25	74	1118
Remedy for tapeworms.	L. J. Eggersdorf.	27,804	Feb. 18	74	959
Remedy for the blood. Internal.	Salvation Blood Purifier Company.	29,014	Oct. 20	77	449
Remedy for the tobacco habit.	W. J. Patterson.	29,309	Dec. 15	77	1778
Remedy for women's diseases.	J. E. Westaver.	27,805	Feb. 18	74	959
Remedy for wounds and sores.	Chemische Fabrik Rhenania.	29,262	Dec. 8	77	1591
Remedy for wounds and sores.	Chemische Fabrik Rhenania.	29,263	Dec. 8	77	1592
Remedy for wounds and sores.	Chemische Fabrik Rhenania.	29,264	Dec. 8	77	1592
Remedy for wounds and sores.	Chemische Fabrik Rhenania.	29,265	Dec. 8	77	1592
Remedy. Hog and cholera.	Moore & Co.	29,330	Dec. 22	77	1934
Remedy. Hog and poultry.	A. G. Marshall.	28,822	Aug. 25	76	1271
Remedy. Hog-cholera.	L. Barnes.	28,556	July 7	76	160
Remedy in pills, tablets, and capsules. Internal.	Puritana Compound Company.	28,114	Apr. 7	75	182
Rice. Laminated or foliated.	F. Dresser.	28,156	Apr. 21	75	504
Ribbons. Silk.	A. Openhym.	29,064	Nov. 3	77	806
Rods, sheets, wire, plates, ingots, and castings made from metallic alloys.	Ansonia Brass and Copper Company.	28,067	Mar. 31	74	1896
Roofing. Composition felt and gravel.	Eastern Granite Roofing Company.	28,542	July 7	76	158
Roofing-felt.	Warren Chemical and Manufacturing Company.	28,955	Oct. 6	77	150
Roofing-felt and building-paper.	New York Coal Tar Chemical Company.	28,699	Aug. 4	76	782
Rope and cordage.	Sam'l Cupples Wooden Ware Company.	28,416	June 23	75	2003
Rope and twine.	Standard Rope and Twine Company.	27,798	Feb. 11	74	806
Rope and twine.	Standard Rope and Twine Company.	28,533	July 7	76	158
Rope and twine.	Standard Rope and Twine Company.	28,534	July 7	76	158
Rope, cord, and twine.	Porterdale Mills.	28,330	June 2	75	1544
Rope. Transmission.	H. Channon Company.	28,982	Oct. 13	77	309
Rubber goods, especially bicycle-tires. Cementing and healing compound for.	K. Linn.	28,722	Aug. 4	76	784
Rubber goods. Fossil earth used in the manufacture of.	G. A. Alden & Co.	28,754	Aug. 11	76	959
Rubber, gutta-percha, and other vulcanizable gums. India.	G. A. Alden & Co.	29,053	Oct. 27	77	629
Rubber, gutta-percha, and other vulcanizable gums. India.	G. A. Alden & Co.	29,054	Oct. 27	77	629
Rubber, gutta-percha, and other vulcanizable gums. India.	G. A. Alden & Co.	29,206	Nov. 24	77	1268
Rubber, gutta-percha, and other vulcanizable gums. India.	G. A. Alden & Co.	29,207	Nov. 24	77	1268
Rubber, gutta-percha, and other vulcanizable gums. India.	G. A. Alden & Co.	29,208	Nov. 24	77	1269
Rubber, gutta-percha, and other vulcanizable gums. India.	G. A. Alden & Co.	29,209	Nov. 24	77	1269
Rubber, gutta-percha, and other vulcanizable gums. India.	G. A. Alden & Co.	29,210	Nov. 24	77	1269
Rubber, gutta-percha, and other vulcanizable gums. India.	G. A. Alden & Co.	29,211	Nov. 24	77	1269
Rubber, gutta-percha, and other vulcanizable gums. India.	G. A. Alden & Co.	29,212	Nov. 24	77	1269
Rubber, gutta-percha, and other vulcanizable gums. India.	G. A. Alden & Co.	29,213	Nov. 24	77	1269
Rubber shoes.	Boston Rubber Shoe Company.	28,076	Apr. 7	75	178
Rubber shoes.	McCord Rubber Company.	28,849	Sept. 1	76	1415
Rubber sundries. Certain named druggists'.	W. F. Ware.	28,077	Apr. 7	75	178
Rubber vehicle-tires, bags, or other articles of rubber holding gases, their compounds, or fluids.	Self-Healing Pneumatic Tire Company.	28,301	May 26	75	1356
Ruffling and flouncing.	C. B. Levering.	29,347	Dec. 29	77	2130
Rugs and carpets.	E. T. Mason & Co.	27,801	Feb. 18	74	959
Rum. Jamaica.	W. A. Taylor & Co.	27,747	Feb. 4	74	651
Saccharine compounds. Artificial.	Chemische Fabrik von Heyden, Gesellschaft, mit Beschränkter Haftung.	29,146	Nov. 10	77	971
Sad-irons.	Cleveland Foundry Company.	27,655	Jan. 14	74	268

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Title.	Name.	No.	Date.	Official Gazette.	
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Salad-dressing.....	Salade Franaise Company.....	27,992	Mar. 24	74	1726
Salmon and canned fruits and vegetables. Packed.....	J. G. Megler.....	28,400	June 16	75	1850
Salmon, fruits, and vegetables. Packed.....	J. G. Megler.....	29,385	Dec. 29	77	2134
Salt.....	C. C. Andrews.....	28,225	May 5	75	831
Salt, sugar, and spices or other condiments, excepting bak- ing-soda, salaratus, and baking-powders.....	R. N. Fitzgerald.....	28,879	Sept. 15	76	1710
Salt that serves as a covering layer for molten zinc and tin.....	Firm of T. Goldschmidt.....	29,282	Dec. 8	77	1593
Salts of natural aperient waters and medicinal preparations containing such salts.....	E. Saxlehner.....	28,765	Aug. 18	76	1111
Salts of natural aperient waters and medicinal preparations containing such salts.....	E. Saxlehner.....	28,766	Aug. 18	76	1111
Salve.....	J. A. O'Keefe.....	28,941	Oct. 6	77	149
Salve.....	L. T. Reddeman.....	29,095	Nov. 3	77	809
Salve.....	J. P. Urben.....	29,176	Nov. 17	77	1121
Salve. Eye.....	J. P. Hayter.....	28,280	May 19	75	1199
Salve for use upon animals.....	W. M. Melick.....	27,671	Jan. 21	74	375
Salve or ointment.....	G. F. Smith.....	28,137	Apr. 14	75	344
Salve. Petroleum jelly used as a.....	J. J. Wise.....	28,279	May 19	75	1198
Salves.....	C. J. Garland.....	27,707	Jan. 28	74	493
Salves and ointments.....	A. Lapp.....	28,772	Aug. 18	76	1112
Salves. Healing.....	J. Popelik.....	28,839	Sept. 1	76	1414
Saponaceous and alkali solutions to be mixed with soap and water for cleaning purposes.....	E. Burst.....	29,136	Nov. 10	77	970
Sardines.....	E. R. Tilden.....	28,739	Aug. 11	76	958
Sauces.....	G. A. Becker.....	29,229	Dec. 1	77	1424
Sauces.....	W. H. Courtenay.....	29,197	Nov. 24	77	1267
Sauces, catsup, jellies, fruits, and vegetables.....	G. W. Blake.....	28,625	July 21	76	470
Saws.....	E. C. Atkins & Company.....	28,857	Sept. 1	76	1416
Saws, steel, files, shears, and edge-tools.....	J. Taylor.....	28,003	Mar. 24	74	1727
Scale and sediment removing compounds.....	E. C. Thrall.....	27,827	Feb. 18	74	961
Scouring and abrading cloths and papers.....	W. H. Staynes & Smith.....	28,262	May 19	75	1197
Seed. Grass.....	Albert Dickinson Company.....	28,240	May 12	75	991
Seeds. Agricultural and garden.....	A. H. Herrick & Son.....	28,453	June 23	75	2006
Sewing-machines.....	Central Oilgas Stove Company.....	28,795	Aug. 18	76	1114
Sewing-machines and attachments.....	Abraham & Straus.....	27,629	Jan. 7	74	142
Sewing-machines and attachments.....	Davis Sewing Machine Company.....	29,238	Dec. 1	77	1425
Sewing-machines and attachments.....	Standard Sewing Machine Company.....	27,756	Feb. 4	74	652
Sewing-machines and attachments, except needles.....	Standard Sewing Machine Company.....	27,878	Feb. 25	74	1119
Sewing-machines and their operative parts and attachments.....	Standard Sewing Machine Company.....	27,838	Feb. 18	74	962
Sewing-machines and their parts.....	Standard Sewing Machine Company.....	27,837	Feb. 18	74	962
Sewing silk and twist.....	Leshner, Whitman & Co.....	28,732	Aug. 11	76	957
Shears and scissors.....	R. H. Seymour.....	29,184	Nov. 17	77	1122
Sheetings.....	L. Robeson.....	27,587	Jan. 7	74	138
Sheetings and drillings.....	G. L. Montgomery.....	29,346	Dec. 29	77	2130
Sheetings, drillings, shirtings, and yarns.....	Piedmont Manufacturing Company.....	29,063	Nov. 3	77	806
Shellac.....	Wadsworth, Howland & Company.....	29,018	Oct. 20	77	449
Shells for use in shotguns.....	Winchester Repeating Arms Com- pany.....	28,463	June 23	75	2006
Shells. Shotgun.....	Austin Cartridge Company.....	29,390	Dec. 29	77	2135
Sherries. Natural.....	W. H. Hughes.....	28,442	June 23	75	2005
Ships. Anticorrosive compositions for the bottoms of steel and iron.....	G. N. Gardiner.....	28,824	Aug. 25	76	1272
Ships. Antifouling compositions for bottoms of steel and iron.....	G. N. Gardiner.....	28,751	Aug. 11	76	959
Shirt-waist.....	Meyer Jonasson & Co.....	28,465	June 30	75	2188
Shirts.....	G. H. Babcock.....	29,255	Dec. 8	77	1591
Shirts, collars, and cuffs.....	L. & G. Brenner.....	28,423	June 23	75	2003
Shirts, collars and cuffs, drawers and shirt-waists, and goods of like character.....	S. Broom and O. L. Meyer.....	28,667	July 28	76	605
Shirts, pants, and overalls.....	J. A. Lamy Manufacturing Company.....	28,377	June 16	75	1848
Shirts, waists, and blouses for men and boys.....	C. Eisenman & Co.....	27,986	Mar. 24	74	1726
Shirtings and sheetings.....	Wamsutta Mills.....	28,563	July 14	76	330
Shoe-channeling machines. Knives and groovers for.....	L. L. Green.....	28,454	June 23	75	2006
Shoe dressings and polishes.....	R. H. Foerderer.....	29,188	Nov. 17	77	1122
Shoes.....	Dugan & Hudson.....	28,426	June 23	75	2004
Shoes.....	Jones Shoe Manufacturing Com- pany.....	29,118	Nov. 10	77	968
Shoes.....	Pingree & Smith.....	29,119	Nov. 10	77	963
Shoes. Bicycle.....	C. H. Fargo & Company.....	28,529	July 7	76	157
Shoes. Children's.....	A. J. Cammeyer.....	28,232	May 12	75	991
Shoes for men and boys.....	Hanan & Son.....	29,158	Nov. 17	77	1120
Shoes. Men's.....	Hamilton, Brown Shoe Company.....	29,222	Dec. 1	77	1423
Shoes. Men's.....	Hamilton, Brown Shoe Company.....	29,223	Dec. 1	77	1423
Shoes. Ventilating.....	Brown Shoe Company.....	27,935	Mar. 10	74	143-
Shoes. Women's.....	Hamilton, Brown Shoe Company.....	29,120	Nov. 10	77	968
Shovels and similar implements.....	Wyoming Shovel Works.....	28,757	Aug. 11	76	960
Silesias and goods of like character.....	Leshner, Whitman & Co.....	28,731	Aug. 11	76	957
Silk goods.....	Knickerbocker Silk Company.....	29,345	Dec. 29	77	2130
Silver goods, leather goods, toilet articles, and stationery ar- ticles. Sterling.....	C. and E. J. Deitsch.....	28,860	Sept. 8	76	1571
Silver goods, leather goods, toilet articles, and stationery ar- ticles. Sterling.....	C. and E. J. Deitsch.....	28,861	Sept. 8	76	1571
Silver-plated ware.....	Homan Silver Plate Company.....	27,974	Mar. 17	74	1586
Size for finishing and dressing yarns and fabrics.....	Gebrüder Wendler.....	28,647	July 21	76	472
Size. Wall.....	V. J. Bechman and N. A. Stirn.....	29,007	Oct. 13	77	312
Skirt-binding.....	Stewart, Howe & May Company.....	27,885	Mar. 3	74	1273
Skirt-binding. Bias velveteen.....	Weiller & Sons.....	28,618	July 21	76	470
Skirt facings and bindings.....	A. M. Weber.....	28,524	July 7	76	157
Skirts.....	McGraw Corset Company.....	28,120	Apr. 14	75	342
Slates, sawed and plain, and rubbed-finished slates and slate slabs. Roofing.....	Chapman Slate Company.....	28,802	Aug. 18	76	1114
Snuff.....	American Tobacco Company.....	28,179	Apr. 21	75	506
Snuff.....	W. E. Garrett & Son.....	28,338	June 2	75	1545
Snuff.....	Stewart, Ralph & Co.....	28,693	July 28	76	607

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Soap.....	C. Davis & Co.....	29,070	Nov. 3	77	806
Soap.....	C. Davis & Co.....	29,318	Dec. 15	77	1779
Soap.....	C. Davis & Co.....	29,319	Dec. 15	77	1779
Soap.....	C. Davis & Co.....	29,320	Dec. 15	77	1779
Soap.....	C. Davis & Co.....	29,321	Dec. 15	77	1780
Soap.....	C. F. Greenberg.....	29,336	Dec. 22	77	1935
Soap.....	T. A. Kasey.....	25,317	Dec. 15	77	1779
Soap.....	Los Angeles Soap Co.....	27,965	Mar. 17	74	1585
Soap.....	A. H. Martin.....	28,275	May 19	75	1193
Soap.....	A. H. Martin.....	28,770	Aug. 18	76	1111
Soap.....	Newell & Bro.....	28,018	Mar. 24	74	1729
Soap.....	Pugsley, Dingman & Co.....	28,655	July 21	76	473
Soap.....	Raworth, Schodde & Co.....	29,020	Oct. 20	77	449
Soap.....	W. Waltke & Co.....	29,392	Dec. 29	77	2135
Soap and cleansing powders.....	Pacific Coast Borax Company.....	28,490	June 30	75	2190
Soap and other toilet preparations.....	V. Klotz.....	29,181	Nov. 17	77	1122
Soap. Balm and toilet.....	C. Preis.....	28,042	Mar. 31	74	1894
Soap. Cakes of.....	W. H. Bryan.....	29,021	Oct. 20	77	450
Soap for toilet use. Powdered.....	D. H. Greene.....	28,552	July 7	76	160
Soap in bars, cakes, or powdered form.....	J. Eavenson & Sons.....	28,276	May 19	75	1198
Soap in cakes or powders. Laundry.....	W. C. Crawford.....	28,020	Mar. 24	74	1729
Soap. Jelly.....	Diamond Dust Soap Powder Company.....	28,817	Aug. 25	76	1271
Soap. Laundry.....	Allen B. Wrisley Company.....	29,285	Dec. 8	77	1593
Soap. Laundry.....	W. Duncan.....	28,818	Aug. 25	76	1271
Soap. Laundry.....	F. L. Falck & Co.....	28,094	Apr. 7	75	180
Soap. Laundry and toilet.....	Prouty-Bowler Soap Company.....	27,712	Jan. 23	74	493
Soap. Laundry and toilet.....	Prouty-Bowler Soap Company.....	27,713	Jan. 28	74	493
Soap. Laundry and toilet.....	Union Soap Co.....	29,180	Nov. 17	77	1122
Soap. Medicated.....	Bode & Daly.....	29,183	Nov. 17	77	1122
Soap of a dark color.....	L. Bolton Company.....	28,966	Oct. 6	77	151
Soap powder.....	Diamond Dust Soap Powder Company.....	27,602	Jan. 7	74	139
Soap powder.....	L. Emerson.....	28,965	Oct. 6	77	151
Soap put up in sacks.....	J. P. Goswell, W. J. Polk, and J. S. Dowdle.....	28,337	June 2	75	1545
Soap. Tar.....	Bailey Soap Company.....	27,967	Mar. 17	74	1585
Soap. Tar.....	Pioneer Tar Soap Company.....	27,710	Jan. 28	74	493
Soap. Toilet.....	J. E. Gilloy.....	28,654	July 21	76	473
Soap. Toilet.....	Prouty-Bowler Soap Company.....	27,711	Jan. 28	74	493
Soap. Toilet.....	Quince Co.....	28,019	Mar. 24	74	1729
Soap. Toilet.....	J. J. Williams Company.....	28,142	Apr. 14	75	345
Soap. Toilet and laundry.....	F. G. Burke.....	28,040	Mar. 31	74	1894
Soap. Toilet and laundry.....	F. G. Burke.....	28,041	Mar. 31	74	1894
Soap. Toilet and laundry.....	F. G. Burke.....	28,246	May 12	75	992
Soaps. Liquid and other.....	W. & F. Walker.....	29,022	Oct. 20	77	450
Soaps, perfumes, oils, and like toilet articles.....	V. Klotz.....	29,071	Nov. 3	77	807
Soaps, perfumes, oils, and like toilet articles.....	V. Klotz.....	29,072	Nov. 3	77	807
Soaps, perfumes, oils, and other toilet articles.....	V. Klotz.....	29,073	Nov. 3	77	807
Soaps, perfumes, powders, pastes, lotions, waters, cosmetics, and balms.....	D. S. Brown & Co.....	27,895	Mar. 3	74	1274
Soaps. Toilet.....	Hance Bros. & White.....	28,909	Sept. 29	76	2004
Soda and silicate of soda. Caustic.....	Joseph Crosfield & Sons.....	29,134	Nov. 10	77	960
Soda and silicate of soda. Caustic.....	Joseph Crosfield & Sons.....	29,135	Nov. 10	77	970
Soda. Caustic.....	J. Forster.....	27,898	Mar. 3	74	1274
Soda, salaratus, and baking-powder.....	J. Dwight & Co.....	28,224	May 5	75	831
Soda, saleratus, and baking-powders. Baking.....	Church & Dwight Company.....	29,226	Dec. 1	77	1423
Soldering-flux.....	Grasselli Chemical Company.....	27,947	Mar. 10	74	1440
Sole and heel protectors.....	North & Judd Manufacturing Company.....	29,122	Nov. 10	77	968
Soles, tap-soles, and half-soles.....	W. Kurzenknebe.....	28,154	Apr. 21	75	504
Specifics.....	B. F. Mann & Son.....	26,747	Aug. 11	76	958
Specifics for the extermination of zymotic and contagious diseases.....	A. Liebig.....	28,997	Oct. 13	77	311
Spelter or manufactured zinc.....	Cherokee-Lanyon Spelter Company.....	28,288	May 19	75	1199
Spelter or manufactured zinc.....	Cherokee-Lanyon Spelter Company.....	28,456	June 23	75	2006
Spices.....	Stickney & Poor Spice Company.....	28,815	Aug. 25	76	1271
Spices and flavoring extracts.....	Old Fort Spice and Extract Company.....	28,235	May 12	75	991
Spices, condiments, and bird-food.....	E. R. Durkee & Co.....	29,274	Dec. 8	77	1592
Spices, condiments, and bird-food.....	E. R. Durkee & Co.....	29,275	Dec. 8	77	1593
Spices, condiments, and bird-food.....	E. R. Durkee & Co.....	29,276	Dec. 8	77	1593
Spices, condiments, and bird-food.....	E. R. Durkee & Co.....	29,277	Dec. 8	77	1593
Spices, flavoring extracts, and manufactured cocoanut.....	Citizens' Wholesale Supply Co.....	27,817	Feb. 18	74	960
Spirits.....	American Spirits Manufacturing Company.....	27,817	Feb. 18	74	960
Sprayers.....	Miller, Du Brul & Peters Manufacturing Company.....	28,899	Sept. 29	76	2003
Sprinklers.....	Plenger & Henger Manufacturing Company.....	28,796	Aug. 18	76	1114
Stamps, seals, daters, stencils, and the like.....	S. G. Adams Stamp and Seal Company.....	27,717	Jan. 28	74	493
Starch.....	A. F. Keith.....	28,964	Oct. 6	77	151
Starch and its preparations, soap, soap powders, soda, blue, borax, and the like.....	Hoffmann's Stärkefabriken.....	28,223	May 5	75	831
Starch and starch preparations.....	Ulmer Reisstärke-Fabrik Heinrich Mack.....	28,192	Apr. 28	75	671
Starch. Laundry.....	T. Kingsford & Son.....	29,202	Nov. 24	77	1268
Starch packed in paper carton boxes. Powdered.....	Beaham Manufacturing Company.....	27,955	Mar. 17	74	1584
Starch, starch and borax preparations, soap, soap powders, and blue.....	Ulmer Reisstärke-Fabrik Heinrich Mack.....	28,193	Apr. 28	75	671
Stationery.....	Firm of G. Vickers.....	27,886	Mar. 3	74	1273
Stationery and visiting-cards. Wedding and correspondence.....	Stationers Engraving Company.....	27,887	Mar. 3	74	1273
Stays. Dress.....	Estate of R. N. Bassett.....	29,026	Oct. 20	77	450
Stays. Dress and corset.....	J. Janowitz.....	28,424	June 23	75	2003

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Stays. Dress and corset	J. Janowitz	28,425	June 23	75	2003
Steam-traps	Holden & Brooke	27,875	Feb. 25	74	1119
Steamers. Face	C. A. Butler	28,043	Mar. 31	74	1894
Steel. Refined	Pennsylvania Steel Refining Com- pany	27,828	Feb. 18	74	961
Stencil-dies for cutting and stamping	M. McNamara	28,049	Mar. 31	74	1895
Stockings	P. Kahler & Sons	28,892	Sept. 29	76	2002
Stogies	R. & W. Jenkinson Company	29,006	Oct. 13	77	311
Stone. Natural building	Edgemont Stone Company	27,906	Mar. 3	74	1275
Stonework. Preparation for whitening	Topp's Dressing Co.	28,835	Sept. 1	76	1414
Stove-linings	Adams Company	28,325	June 2	75	1543
Stove-polish	O. G. Skillings	28,000	Mar. 24	74	1727
Stoves and ranges	Plymouth Stove Foundry Co.	29,219	Nov. 24	77	1270
Stoves and ranges. Gas, gasoline, oil, coal, electric, and wood-burning	A. Weiskittel & Son	28,255	May 12	75	992
Stoves. Heating	Gem City Manufacturing Company	28,054	Mar. 31	74	1895
Stoves. Oil and other	Plymouth Stove Foundry Co.	29,239	Dec. 1	77	1425
Stoves, ranges, and their parts and attachments	Phillips & Clark Stove Company	28,053	Mar. 31	74	1895
Stringed instruments. Keyed	M. Steinert	28,970	Oct. 6	77	152
Suet or fat. Refined reef	Hugon & Co.	29,203	Nov. 24	77	1268
Sugar. Granulated	Tolmé & Runge	28,919	Sept. 29	76	2005
Sugar substitute	Farbenfabriken, vormals Fr. Bayer & Co.	29,314	Dec. 15	77	1779
Suspenders, shoulder-braces, and garment-supporters	Silvermann & Co.	28,668	July 28	76	605
Suspensories	A. L. Ware	27,636	Jan. 14	74	250
Syringes and articles of like character. Rubber	Lauman & Kemp	29,029	Oct. 20	77	450
Syringes. Nasal	W. H. Armstrong & Co.	28,946	Oct. 6	77	150
Syrup and sugar. Maple	M. D. McMahon	27,958	Mar. 17	74	1584
Syrups	Coulter Manufacturing Company	27,922	Mar. 10	74	1437
Syrups and extracts for beverages. Fruit	D. S. McDonald Company	28,715	Aug. 4	76	783
Syrups. Soda-water	H. Kienzier	28,478	June 30	75	2189
Syrups. Sugar	J. D. Hage & Co.	29,375	Dec. 29	77	2133
Syrups. Sugar	J. D. Hage & Co.	29,376	Dec. 29	77	2133
Syrups. Sugar	J. D. Hage & Co.	29,377	Dec. 29	77	2133
Syrups. Sugar	J. D. Hage & Co.	29,378	Dec. 29	77	2134
Tablets for colds and hay-fever, also a tonic and disinfectant	W. C. Kloman	29,132	Nov. 10	77	909
Tablets for coughs and colds	E. G. Lewis	27,619	Jan. 7	74	141
Tablets for the cure of headache, neuralgia, and colds in the head	J. D. Wilson	28,820	Aug. 25	76	1271
Tabs which are attachable to wearing-apparel. Fastening	M. H. Mergenthaler	29,296	Dec. 15	77	1777
Tacks	H. C. Tack Company	27,910	Mar. 3	74	1275
Tacks. Shoe	Goodyear Shoe Machinery Company	27,683	Jan. 21	74	376
Talc or agalite. Finely-powdered	International Pulp Company	29,362	Dec. 29	77	2132
Talc or agalite. Powdered	International Pulp Company	29,205	Nov. 24	77	1268
Tanners' use. Deliming and preserving compound for	Firm of J. Hauff	28,868	Sept. 8	76	1571
Tea	Appleton, Machin & Smiles	27,891	Mar. 3	74	1273
Tea	Bronson, Brown & Co.	27,865	Feb. 25	74	1118
Tea	Bronson, Brown & Co.	27,866	Feb. 25	74	1118
Tea	Carson Bros. & Co.	27,815	Feb. 18	74	960
Tea	H. C. Fisher	27,773	Feb. 11	74	804
Tea	H. C. Fisher	27,774	Feb. 11	74	804
Tea	Haas Bros.	28,782	Aug. 18	76	1112
Tea	Haas Bros.	28,783	Aug. 18	76	1112
Tea	G. M. Lane	27,867	Feb. 25	74	1118
Tea	P. C. Larkin	28,962	Oct. 6	77	151
Tea	A. Melrose & Co.	27,864	Feb. 25	74	1118
Tea	L. H. Parke	28,446	June 23	75	2005
Tea	Reed, Walsh & Lange	28,886	Sept. 22	76	1850
Tea	Reed, Walsh & Lange	28,928	Oct. 6	77	148
Tea and coffee	J. Stiner & Co.	28,104	Apr. 7	75	181
Tea, coffee, chocolate, and chicory	Appleton, Machin & Smiles	27,816	Feb. 18	74	960
Tea, coffee, claret-wine, and syrup	T. Martindale	28,565	July 7	76	161
Tea, coffee, spices, baking-powder, flavoring extracts, soap, and starch	Jones Brothers	29,144	Nov. 10	77	971
Tea. Formosa	Wolfe, McMillan & Co.	29,199	Nov. 24	77	1268
Tea. Japan	Cross Abbott Company	28,961	Oct. 6	77	151
Tea. Japan	Irwin, McBride, Catherwood & Co.	29,078	Nov. 3	77	807
Tea. Japan	E. B. Millar & Company	29,038	Oct. 27	77	627
Teas	Bryan, Miner & Read	29,099	Nov. 3	77	809
Teas	Tete Bros.	29,079	Nov. 3	77	807
Teas. Herb	Weber's Medical Tea Co.	29,011	Oct. 20	77	449
Telephones	P. C. Burns	29,111	Nov. 3	77	810
Tennis, croquet, golf, and other games and sports. Certain apparatus for	A. G. Spalding & Bros	29,055	Oct. 27	77	629
Thermometers	R. Hoehn Co.	28,401	June 16	75	1851
Thill-couplings. Antirattlers for	J. W. Willard	29,241	Dec. 1	77	1425
Thill-couplings. Antirattlers for	J. W. Willard	29,242	Dec. 1	77	1425
Thread	Merrick Thread Company	27,635	Jan. 14	74	266
Thread	Merrick Thread Company	27,848	Feb. 25	74	1117
Thread. Cotton	J. Brook & Brothers	28,467	June 30	75	2188
Thread. Linen	L. Lichtenstein's Sons	28,803	Aug. 25	76	1270
Thread. Spooled and skeined silk	M. Heminway & Sons Silk Company	27,950	Mar. 17	74	1584
Threads of all kinds	Jonathan Harris & Sons	27,727	Feb. 4	74	649
Tickets or contracts. Coupon	Inter-State Casualty Company of New York	29,116	Nov. 10	77	968
Tin and terne plates and similar goods	American Tin Plate Company	27,677	Jan. 21	74	375
Tin-plate in sheets	E. S. Wheeler & Company	28,457	June 23	75	2006
Tin-plate in sheets	E. S. Wheeler & Company	28,664	July 21	76	474
Tin-plate in sheets	E. S. Wheeler & Company	28,828	Aug. 25	76	1272
Tin plates and terne plates	C. S. Shepard & Co.	28,458	June 23	75	2006
Tin plates and terne plates	C. S. Shepard & Co.	28,459	June 23	75	2006
Tin plates, terne plates, tin taggers, black taggers, sheet metal, sheet-iron, solder, cement, paint, and paper	E. L. Parker & Co.	28,663	July 21	76	474
Tire-cement	A. F. Hoffman	28,649	July 21	76	473

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Title.	Name.	No.	Date.	Official Gazette.	
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Tire puncture-filler. Bicycle.....	T. A. Harvey	28,430	June 23	75	2004
Tires and parts thereof. Vehicle.....	Dunlop Pneumatic Tyre Company..	29,240	Dec. 1	77	1425
Tires. Cement composition for mending pneumatic.....	Puncturoid Manufacturing Co.....	29,396	Dec. 29	77	2135
Tires. Cement for mending punctures in pneumatic.....	A. Wilson & Co.....	29,287	Dec. 8	77	1594
Tires. Composition for repairing pneumatic.....	Boston Woven Hose and Rubber Company.....	29,051	Oct. 27	77	629
Tires. Compound for closing punctures in pneumatic.....	Eagle Chemical Co.....	28,801	Aug. 18	76	1114
Tires. Elastic or pneumatic.....	Boston Woven Hose and Rubber Company.....	27,879	Feb. 25	74	1120
Tires for bicycles and other vehicles. Pneumatic.....	Reading Rubber Tire Co.....	28,229	May 5	75	832
Tires for cycles and other vehicles. Pneumatic.....	Humber & Company, America.....	28,518	June 30	75	2192
Tires for vehicles. Rubber or cushion.....	J. F. Seiberling.....	28,896	Sept. 29	76	2003
Tires. Liquid compound for closing punctures and slits in inflated wheel.....	H. M. Schlitt.....	28,429	June 23	75	2004
Tires of the single-tube variety. Pneumatic.....	Hartford Rubber Works Company..	28,974	Oct. 6	77	152
Tires. Pneumatic bicycle.....	Spaulding & Pepper Company.....	27,757	Feb. 4	74	652
Tires. Pneumatic or solid-rubber.....	L. C. Chase & Co.....	29,052	Oct. 27	77	629
Tires. Preparation to repair ruptures or punctures in pneumatic.....	Little Joe Wiesenfeld Co.....	28,648	July 21	76	472
Tires. Yielding or pneumatic.....	Boston Woven Hose and Rubber Company.....	28,184	Apr. 21	75	500
Tires. Yielding or pneumatic.....	Boston Woven Hose and Rubber Company.....	28,574	July 7	76	162
Tires. Yielding or pneumatic.....	Revere Rubber Company.....	28,517	June 30	75	2192
Tobacco.....	H. B. Huntton.....	29,335	Dec. 22	77	1935
Tobacco and cigars.....	S. Hershheim, Bros. & Company.....	29,365	Dec. 29	77	2132
Tobacco and cigars.....	S. Hershheim, Bros. & Company.....	29,366	Dec. 29	77	2132
Tobacco and cigars.....	Y. Pendas & Alvarez.....	28,358	June 9	75	1701
Tobacco and cigars.....	Y. Pendas & Alvarez.....	28,359	June 9	75	1701
Tobacco. Chewing.....	J. W. Blackwelder.....	27,769	Feb. 11	74	803
Tobacco. Chewing.....	Toledo Tobacco Works Company.....	28,808	Aug. 25	76	1270
Tobacco. Chewing.....	Toledo Tobacco Works Company.....	28,809	Aug. 25	76	1270
Tobacco. Chewing and smoking.....	American Tobacco Company.....	28,178	Apr. 21	75	506
Tobacco. Chewing and smoking.....	R. J. Reynolds Tobacco Company.....	27,752	Feb. 4	74	651
Tobacco, cigars, and cigarettes. Chewing and smoking.....	S. Hershheim, Bros. & Co.....	24,440	June 23	75	2005
Tobacco, cigars, cheroots, cigarettes, and snuff. Smoking.....	American Tobacco Company.....	28,234	May 12	75	991
Tobacco. Leaf.....	Mexican Tobacco Company.....	28,763	Aug. 18	76	1111
Tobacco. Long-cut smoking and chewing.....	B. Payn's Son's Tobacco Company..	28,476	June 30	75	2189
Tobacco. Plug-cut.....	R. Harris & Bro.....	28,622	July 21	76	1270
Tobacco. Smoking.....	American Tobacco Company.....	28,265	May 19	75	1197
Tobacco. Smoking.....	American Tobacco Company.....	29,035	Oct. 27	77	627
Tobacco. Smoking.....	American Tobacco Company.....	29,036	Oct. 27	77	627
Tobacco. Smoking.....	Richmond Cavendish Company.....	27,753	Feb. 4	74	651
Tobacco. Smoking.....	Toledo Tobacco Works Company.....	28,811	Aug. 25	76	470
Tobacco. Smoking.....	Wellman & Dwire Tobacco Company.....	28,474	June 30	75	2188
Tobacco. Smoking.....	Wellman & Dwire Tobacco Company.....	28,475	June 30	75	2188
Tobacco. Smoking and chewing.....	Toledo Tobacco Works Company.....	28,810	Aug. 25	76	1270
Tobacco. Twist.....	W. W. Ford.....	27,924	Mar. 10	74	1437
Tobies.....	S. Ewart & Co.....	29,148	Nov. 10	77	971
Toilet and bath powders.....	Pacific Coast Borax Company.....	28,492	June 30	75	2190
Toilet article for use on the face.....	J. Buchane.....	28,494	June 30	75	2190
Toilet articles, including preparations for the teeth, hair, and skin, perfumery and toilet soaps.....	T. Churton.....	28,168	Apr. 21	75	505
Toilet powder.....	J. D. Roberts.....	28,493	June 30	75	2190
Toilet powder.....	O. Samostz.....	27,764	Feb. 11	74	803
Toilet preparation for the skin.....	M. Beetham & Son.....	28,277	May 19	75	1198
Toilet preparation for the skin in either a solid, liquid, or powdered form.....	C. Lyons.....	28,680	July 28	76	606
Toilet preparations and fumigators. Certain named.....	Colgate & Co.....	27,765	Feb. 11	74	803
Toilet preparations, breath-perfumes, and confections.....	Kisyou Co.....	28,550	July 7	76	160
Toilet preparations, including soap.....	V. Klotz.....	29,232	Dec. 1	77	1424
Toilet preparations manufactured from wool-fat.....	B. Jaffé & Darmstaedter.....	29,204	Nov. 24	77	1268
Toilet tablet for the bath and toilet stand.....	D. Cole.....	28,115	Apr. 7	75	182
Tonic.....	Prune-Manna Co.....	27,618	Jan. 7	74	141
Tonic and bitters.....	T. B. Fox.....	28,133	Apr. 14	75	344
Tonic bitters for the stomach.....	W. T. Thompson and J. D. Wilson.....	29,266	Dec. 8	77	1592
Tonic. Iron.....	R. E. Rhode.....	28,959	Oct. 6	77	150
Tonic. Malt-liquor.....	C. A. Lammers Bottling Company.....	28,710	Aug. 4	76	783
Tonic. Nerve.....	L. H. Checini.....	28,911	Sept. 29	76	2004
Tonic, stimulant, and remedy for nervousness.....	W. R. Warner.....	29,046	Oct. 27	77	628
Tonics.....	I. L. Gamble.....	27,897	Mar. 3	74	1274
Tonics.....	Kola Importing Co.....	28,684	July 28	76	606
Tonics.....	C. F. W. Wiegand.....	28,637	July 21	76	471
Tonics. Malt.....	Rochester Brewing Company.....	28,935	Oct. 6	77	149
Tonics or beverages which combine pepsin with the active principle of the cola-nut.....	A. W. Stewart & Company.....	28,444	June 23	75	2005
Tonics. Scalp.....	E. W. Knowlton.....	28,683	July 28	76	606
Tools and hardware. Certain named.....	McCreath & Morgan.....	27,877	Feb. 25	74	1119
Tools. Holders for sharpening.....	T. A. Lamotte.....	26,257	Nov. 10	77	967
Tools, including edge-tools and mechanics' and engineers' tools of all kinds.....	Montgomery & Co.....	28,253	May 12	75	992
Tools. Railway-track, blacksmiths', stone-masons', mining, ironworkers' and woodworkers'.....	Verona Tool Works.....	28,858	Sept. 1	76	1416
Tools, such as hoes and corn-hooks. Hand.....	Iowa Farming Tool Company.....	28,669	July 28	76	605
Tooth-wash.....	F. S. Churchill.....	27,855	Feb. 25	74	1118
Tooth-washes, gargles, and antiferments for the cure of sprains, catarrh, and microbial diseases.....	G. I. Stevens.....	28,749	Aug. 11	76	959
Toy cameras.....	Strauss, Sachs & Co.....	27,603	Jan. 7	74	139
Toy firearms.....	Ives & Williams Company.....	27,872	Feb. 25	74	1119
Toy. Optical.....	A. Strauss & Co.....	28,188	Apr. 28	75	671
Toy torpedoes and toy paper caps.....	M. Backes Sons.....	29,299	Dec. 15	77	1777
Transmitters.....	P. C. Burns.....	29,112	Nov. 3	77	810

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Title.	Name.	No.	Date.	Official Gazette.	
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Traps, called drawn traps, and made of lead and electroplated.	American Shot and Lead Company	28,005	Mar. 24	74	1728
Hydraulic-pressed					
Trimmings, such as braids and bindings	Leshner, Whitman & Co.	28,761	Aug. 18	76	1111
Trousers	S. A. Isaacson	28,891	Sept. 20	76	2002
Trunks. Wall-	S. Jackson	28,403	June 16	75	1851
Twine. Binding-	Deering Harvester Company	28,981	Oct. 13	77	309
Type-writersupplies	American Writing Machine Company	29,290	Dec. 8	77	1594
Umbrellas and parasols	Dazian & Burehell Bros.	29,027	Oct. 20	77	450
Umbrellas and parasols	Hirsh & Brother	28,352	June 9	75	1701
Umbrellas and parasols	W. N. Stevenson	28,263	May 19	75	1197
Unctions for eradication of cutaneous diseases	R. S. Gilbert	27,962	Mar. 17	74	1585
Underwaists for women and children	T. B. Fitzpatrick	28,705	Aug. 4	76	782
Underwaists, including knitted waists. Children's	Kinderhook Knitting Company	28,376	June 16	75	1848
Underwear	Cooper Manufacturing Co	28,295	May 26	75	1356
Varnish for use on metal surfaces. Colored and transparent.	Berry Brothers, Limited	28,023	Mar. 24	74	1729
Varnishes	Firm of C. W. Schmidt	28,724	Aug. 4	76	784
Varnishes, oils, wood-fillers, and analogous goods	F. W. Devoe & C. T. Reynolds Company	27,904	Mar. 3	74	1274
Vegetables and fruits. Certain named	F. H. Hammer	28,308	May 26	75	1357
Vehicles and metal wares, wooden wares, and compounds thereof used for athletic and sporting purposes.	Jersey Wheel Company	28,516	June 30	75	2192
Velocipede parts	Perry & Company	28,519	June 30	75	2192
Velocipedes and parts thereof	Pope Manufacturing Company	28,977	Oct. 6	77	152
Velocipedes and their parts and bicycle sundries	A. G. Spalding & Bros.	29,032	Oct. 20	77	450
Velveteens	Hardt & Lindgens	28,733	Aug. 11	76	957
Velveteens and corduroys	A. Openhym	28,058	Mar. 31	74	1896
Veterinary liniment	W. Weingard	28,942	Oct. 6	77	149
Veterinary remedies	E. J. Sanderson & Co.	29,329	Dec. 22	77	1934
Wagons, carts, carriages, and other road-vehicles	Flinnt Road Cart Company	28,797	Aug. 18	76	1114
Waists and hose-supporters. Boys' or girls'	Wm. H. Burns Company	28,201	May 5	75	829
Waists, blouses, wrappers, and gowns, and children's suits, knee-pants, waists, and blouses. Ladies'	Strouss, Eisendrath & Drom	27,919	Mar. 10	74	1437
Waists for women and children	T. B. Fitzpatrick	28,584	July 14	76	330
Wall-paper, frescoed walls, and thelike. Compound for cleaning	M. H. and G. E. Kline	28,144	Apr. 14	75	345
Washing and cleansing powder	Toppan Manufacturing Company	27,968	Mar. 17	74	1585
Washing, bleaching, and cleaning fluid	Clarus Company	28,392	June 16	75	1849
Washing compounds. Fluid	J. A. Stewart	27,601	Jan. 7	74	139
Washing compounds. Fluid	T. H. Tabor	27,766	Feb. 11	74	803
Washing fluid for cleansing purposes	L. C. Kiehle	28,433	June 23	75	2004
Washing-machines other than wringers. Hand-power	Boss Washing Machine Co.	28,374	June 9	75	1702
Washing-powder	Garrett Bros	28,489	June 30	75	2190
Washing, scouring, and cleansing. Preparation for	J. J. Thomson's Sons	29,104	Nov. 3	77	810
Watchcases	Bates & Bacon	28,349	June 9	75	1701
Watchcases	T. Zurbrugg	28,259	May 19	75	1197
Watch-movements	Hampton Watch Company	28,250	May 12	75	992
Watch-movements	H. S. Montgomery	28,674	July 28	76	605
Watch-movements	New York Standard Watch Company	29,220	Dec. 1	77	1423
Watches	L. Manheimer	29,066	Nov. 3	77	806
Watches	New York Standard Watch Company	28,657	July 21	76	473
Watches and portable clocks	W. C. Ball	27,630	Jan. 14	74	266
Watches, movements, and parts	American Waltham Watch Company	28,658	July 21	76	473
Watches, movements, and parts of watches	American Waltham Watch Company	29,246	Dec. 8	77	1590
Water-closets	L. M. Rumsey Manufacturing Company	27,623	Jan. 7	74	141
Water-closets	L. M. Rumsey Manufacturing Company	27,624	Jan. 7	74	141
Water-closets	L. M. Rumsey Manufacturing Company	27,625	Jan. 7	74	141
Water-closets	L. M. Rumsey Manufacturing Company	27,626	Jan. 7	74	141
Water-closets	L. M. Rumsey Manufacturing Company	27,726	Jan. 28	74	494
Water-closets	L. M. Rumsey Manufacturing Company	27,841	Feb. 18	74	962
Water-closets	L. M. Rumsey Manufacturing Company	27,842	Feb. 18	74	962
Water-closets	L. M. Rumsey Manufacturing Company	28,055	Mar. 31	74	1895
Waterproof clothing and rubber goods of all kinds	Z. T. Lindsey	28,204	May 5	75	829
Waterproofed articles, waterproofing material, and apparatus for applying same.	Publishing Advertising and Trading Syndicate	27,610	Jan. 7	74	140
Wax, inks, stains, furniture-polish, and tailors' crayons. Shoemakers'	Levy & Co.	28,721	Aug. 4	76	784
Welding compounds	A. D. Le Roy	28,241	May 12	75	991
Whiskies	Carstairs, McCall & Co	29,004	Oct. 13	77	311
Whiskies	Carstairs, McCall & Co	29,005	Oct. 13	77	311
Whiskies. Blended	W. P. Ives & Co	27,960	Mar. 17	74	1585
Whisky	Anderson & Nelson Distilleries Company	29,372	Dec. 29	77	2133
Whisky	Anderson & Nelson Distilleries Company	29,373	Dec. 29	77	2133
Whisky	C. C. Bryan	28,015	Mar. 24	74	1729
Whisky	R. Burnett & Co	28,806	Aug. 25	76	1270
Whisky	R. Burnett & Co	28,807	Aug. 25	76	1270
Whisky	D. M. Feeney	28,743	Aug. 11	76	958
Whisky	Freiberg & Workum	28,036	Mar. 31	74	1894
Whisky	C. J. Gallagher	29,269	Dec. 8	77	1592
Whisky	Gillig Wine Importing Co	28,340	June 2	75	1545
Whisky	Gow & Ross	27,692	Jan. 28	74	491
Whisky	John Jameson & Son	28,931	Oct. 6	77	148

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Whisky	Mackie & Company, Distillers	28,709	Aug. 4	76	783
Whisky	Mellwood Distillery Company	27,770	Feb. 11	74	804
Whisky	Mellwood Distillery Company	27,959	Mar. 17	74	1584
Whisky	Mellwood Distillery Company	28,037	Mar. 31	74	1894
Whisky	Mellwood Distillery Company	28,038	Mar. 31	74	1894
Whisky	Mellwood Distillery Company	29,332	Dec. 22	77	1934
Whisky	Mellwood Distillery Company	29,333	Dec. 22	77	1935
Whisky	Mellwood Distillery Company	29,334	Dec. 22	77	1935
Whisky	C. P. Moorman & Co	28,035	Mar. 31	74	1894
Whisky	Firm of C. Nelson	27,776	Feb. 4	74	651
Whisky	G. S. Nicholas	27,940	Mar. 10	74	1439
Whisky	C. M. Roof	29,370	Dec. 29	77	2133
Whisky	C. M. Roof	29,371	Dec. 29	77	2133
Whisky	A. D. Shaw & Co	29,037	Oct. 27	77	627
Whisky	S. A. Sloman & Co	28,635	July 21	76	471
Whisky	W. A. Taylor & Co	27,665	Jan. 21	74	374
Whisky	W. A. Taylor & Co	27,748	Feb. 4	74	651
Whisky	T. Train & Co	27,693	Jan. 28	74	491
Whisky	T. Train & Co	28,039	Mar. 31	74	1894
Whisky and other distilled liquors	J. D. Murphy	28,220	May 5	75	831
Wind instruments. Brass and other	Besson & Company	28,227	May 5	75	831
Window. Fittings, fixtures, and appurtenances of the Heydebrand safety	Heydebrand Safety Window Company	28,025	Mar. 24	74	1730
Wine. Champagne	American Wine Company	28,269	May 19	75	1198
Wine. Champagne	Krug & Co	28,960	Oct. 6	77	150
Wine. Claret	Schmidt & Ziegler	29,268	Dec. 8	77	1592
Wine. Claret	J. M. Vergnole	28,034	Mar. 31	74	1894
Wines	Germania Wine Cellars	28,568	July 7	76	161
Wines	Firm of J. Schlitz	28,443	June 23	75	2005
Wines	W. A. Taylor & Co	27,664	Jan. 21	74	374
Wines and liquors	L. Schetter	29,331	Dec. 22	77	1934
Wines and spirits	Bagots, Hutton & Company	27,812	Feb. 13	74	960
Wines, brandy, gin, whisky, cordial, ginger-ale, soda, beer, stout, and ale	Walkerville Brewing Company	28,477	June 30	75	2189
Wines, brandy, gin, whisky, cordials, ginger-ale, soda, beer, stout, and ale	Walkerville Brewing Company	28,569	July 7	76	161
Wines. Native	A. B. Perneti	27,643	Jan. 14	74	267
Wire	E. Fraser	29,030	Oct. 20	77	450
Wire goods	Oakville Company	27,754	Feb. 4	74	651
Wire, wire nails, staples, and bale-ties. Barbed and plain	Consolidated Barb Wire Company	28,254	May 12	75	992
Witch-hazel balsam. Preparation of	C. T. Bosworth & Co	29,310	Dec. 15	77	1778
Wood and plant preservers	W. Menzel & Son	28,001	Mar. 24	74	1727
Wood-filler	Bridgeport Wood Finishing Company	28,336	June 2	75	1544
Wood-fillers	C. A. Reeve & Co	29,324	Dec. 15	77	1780
Wood-fillers, primers, and paints	Bridgeport Wood Finishing Company	28,601	July 14	76	332
Wood-polish	Tube City Chemical Co	28,165	Apr. 21	75	505
Wood-preserved	W. Menzel & Son	27,946	Mar. 10	74	1439
Wool-fat and products of same	Norddeutsche Wollkammerei & Kammgarnspinnerei	28,678	July 28	76	606
Woolen and worsted goods	E. Ripley & Son	28,619	July 21	76	470
Woolen cloth	Oakland Manufacturing Company	29,250	Dec. 8	77	1590
Woolen goods, silks, ribbons, and laces	Bueb & Greene	28,332	June 2	75	1544
Wrappers and tea-gowns	Ideal Manufacturing Company	27,845	Feb. 25	74	1171
Wraps, boas, hoods, collarettes, and other garments	W. B. Riley & Co	29,251	Dec. 8	77	1590
Wraps, boas, hoods, collarettes, and other garments	W. B. Riley & Co	29,252	Dec. 8	77	1590
Yarns and threads	J. R. Leeson & Co	28,950	Oct. 6	77	150
Yarns and threads	J. R. Leeson & Co	28,951	Oct. 6	77	150
Yarns and threads	J. R. Leeson & Co	28,952	Oct. 6	77	150
Yarns and threads	J. R. Leeson & Co	28,953	Oct. 6	77	150
Yarns, underwear, and knit goods, including hosiery	Commonwealth Cotton Manufacturing Company	29,062	Nov. 3	77	806
Yeast cake	Waterloo Yeast Company	27,956	Mar. 17	74	1584
Yeast cakes. Dry hop	Towsley Yeast Company	28,127	Apr. 14	75	343
Zinc plates and purple ore brickets	Electrische Zinkwerke Gesellschaft mit Beschränkter Haftung	28,873	Sept. 8	76	1572

ALPHABETICAL LIST OF LABELS.

Title.	Name.	No.	Date.	Official Gazette.	
				Volume.	Page.
"Chicago Yeast Powder"	Chapman & Smith Company	6,546	June 9	75	1554

PRINTS.

Title.	Name.	No.	Date.	Official Gazette.	
				Volume.	Page.
"A Gallery of Celebrities"	United States Playing Card Company	35	Nov. 10	77	828
"Arabesque." (For Cigars and Tobacco)	American Lithographic Company...	40	Dec. 29	77	1944
"Battery of Hazelton or Porcupine Boilers with Brickwork Settings and Furnaces Inclosed by Metal Casings or Jackets and Having Square Grate-Surfaces."	Hazelton Boiler Company	11	Mar. 17	74	1448
"Battery of Hazelton or Porcupine Boilers with Metal Casings or Jackets Lined with Refractory Material and Having Square Grate-Surfaces."	Hazelton Boiler Company	12	Mar. 17	74	1448
"Caesar." (For Soap)	United States Printing Company...	41	Dec. 29	77	1944
"Cando Silver Polish"	L. D. Colony and B. S. Osgood	21	July 7	76	2
"Circus Playing Cards"	United States Playing Card Company	36	Nov. 17	77	980
"Colman's Mustard All Over the World"	J. & J. Colman	28	Sept. 22	76	1718
"Cut No. A. I."	I. E. Palmer	29	Oct. 27	77	457
"Cut No. 567—B. V."	I. E. Palmer	33	Oct. 27	77	457
"Cut No. 12 G. V."	I. E. Palmer	31	Oct. 27	77	457
"Cut No. 34 P."	I. E. Palmer	30	Oct. 27	77	457
"Cut No. 14 P. V."	I. E. Palmer	32	Oct. 27	77	457
"Cut No. R. S."	I. E. Palmer	28	Oct. 27	77	457
"Cut No. 34—S."	I. E. Palmer	34	Oct. 27	77	457
"Fairy Boots." (For Boots and Shoes)	L. Candee & Company	27	Nov. 17	77	980
"Harness-Leather"	A. A. Myers	37	Oct. 27	77	457
"Hopkins Steamed Hominy (Hulled Corn)"	Western New York Preserving and Manufacturing Company.	22	July 21	76	340
"Ivy Crown." (For Cigars and Tobacco)	American Lithographic Company...	39	Dec. 29	77	1944
"Keep Your Mouth Shut"	New York Consolidated Card Company.	18	June 16	75	1716
"Monarch Soap"	G. Bailey & Co.	10	Feb. 18	74	814
"New Era"	United States Playing Card Company	23	Aug. 11	76	792
"The Ace"	New York Consolidated Card Company.	17	June 16	75	1716
"The Diamond"	New York Consolidated Card Company.	20	June 30	75	2014
"The Hazelton or Porcupine Boiler, Sectional View"	Hazelton Boiler Company	16	Apr. 28	75	514
"The Hazelton or Porcupine Boiler, with Brickwork Setting, and Furnace Enclosed by Metal Casing or Jacket, and Having Circular Grate Surface."	Hazelton Boiler Company	15	Apr. 28	75	514
"The Hazelton or Porcupine Boiler, with Brickwork Setting, and Furnace Enclosed by Metal Casing or Jacket, and Having Square Grate Surface."	Hazelton Boiler Company	14	Apr. 28	75	514
"The Hazelton or Porcupine Boiler, with Metal Casing or Jacket Lined with Refractory Material, and Having Square Grate Surface."	Hazelton Boiler Company	13	Apr. 28	75	514
"The Heart"	New York Consolidated Card Company.	19	June 23	75	1860
"White Skin and Red Cheeks"	J. Ottmann Lithographing Company	24	Sept. 1	76	1280
"Woonsocket Rubbers." (For Rubbers and Overshoes)	Woonsocket Rubber Company	38	Nov. 17	77	980
"Ye Witches' Fortune Cards"	United States Playing Card Company.	25	Sept. 22	76	1718

DISCLAIMERS.

Invention.	Patentee.	No. of patent.	Date of patent.	Disclaimer filed.	Official Gazette.	
					Volume.	Page.
Compound of pyroxylin or nitro-cellulose	John H. Stevens	269,340	Dec. 19, 1882	Feb. 26, 1896	74	1129
Compound of pyroxylin or nitro-cellulose	John H. Stevens	269,344	Dec. 19, 1882	Feb. 26, 1896	74	1129
Combined latch and lock	Nicholas H. Colwell	534,548	Feb. 19, 1895	July 23, 1896	76	481
Feeding and setting lacing-hooks	Andrew Eppler, Jr.	255,076	Mar. 14, 1882	Jan. 11, 1896	74	277
Glass-flattening furnaces and means by which sheets of glass are moved through the leer.	Cleon Tondeur	303,195	Aug. 5, 1894	Mar. 17, 1896	74	1595
Rod-mill	Henry Roberts	392,365	Nov. 6, 1888	June 10, 1896	75	1715
Suspended switch and traveling contact for electric railways.	Charles J. Van Depoele	424,695	Apr. 1, 1890	Jan. 28, 1896	74	504
Web-printing machine	John H. Stonemetz	376,053	Jan. 3, 1888	Dec. 11, 1896	77	1601

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